Ferroli

Product catalogue

2026

RESIDENTIAL BOILERS

COMMERCIAL BOILERS

HYBRID SYSTEMS & HEAT PUMPS

TERMINAL UNITS

RESIDENTIAL & COMMERCIAL AC

WATER HEATERS

BUFFERS & STORAGE

OIL & GAS BURNERS

BIOMASS

SOLAR THERMAL

WATER TREATMENT

SYSTEM CONTROL COMPONENTS

CONTENTS PRODUCT CATALOGUE FERROLI

IMPORTANT

For installation of room sealed and forced flue boilers and water heaters, use Ferroli original flue gas kits and accessories. Whenever original flue gas accessories are not used, Ferroli will not be held liable in case of anomalies that could jeopardise the function and safety of the system.

This document includes international standard products and codes. Some products and accessories may differ or not be available in particular geographical areas. For product and code confirmation, commercial conditions, delivery time and eventual minimum lots etc, please refer to Ferroli's commercial rapresentatives. Application of accessories to be checked on respective installation manuals.

CERTIFIED QUALITY SYSTEM

NEWS FROM THE FERROLI WORLD 6

RESIDENTIAL BOILERS: CONDENSING, TRADITIONAL & ELECTRIC 17

Boilers

Bluehelix Hitech Rrt 18
Bluehelix Hitech Rrt K 50 20
Bluehelix Alpha 22
Bluehelix Hitech Rrt B K 50 24
Bluehelix Sigma 26

Traditionals

Divatop D 28
Divatop D Hf 30
Diva D 32
Fortuna 34

Accessories

Condesing and Traditional gas boilers 35

Electric Boilers

Tor 40

COMMERCIAL BOILERS 41

Commercial Generatos

Modulo Rrt H 42
Force W 44
Opera 52
Mach 60
Tp3 Cond 63
Tp3 Ln 65
Prextherm Rsw 66

Thermal Units

Atlas D Eco Cond Unit 67
Atlas D Eco Cond Si Unit 68
Atlas D 69
Atlas D Eco Unit 70
Atlas D Eco Si Unit 71
Atlas D Eco K Unit 72
Atlas 73
Silent D Eco Cond Unit 74
Silent D Eco Cond Si Unit 75
Gn2 N 76
Gn4 N 77
Pegasus T 78
Pegasus D 23 - 32 - 45 79
Pegasus 80
Torino 82

HYBRID SYSTEMS AND HEAT PUMPS 83

Hybrid Systems

Omnia S Hybrid C 84
Omnia S Hybrid H 88
Hybrid Hydro-Kit 92

Heat Pumps

Omnia Life M 93
Omnia Life M 26T-35T 97
Omnia Ft R290 101
Hydraulic Electronic Board Box 103
Omnia M 3.2 105
Omnia M 3.2 22T÷30T 109
Omnia Ft R32 113
Omnia S 3.2 115
Omnia St 3.2 119
Omnia Sw-t 3.2 123

TERMINAL UNITS: FAN COILS & RADIATORS 127

Fan Coils

Jolly Style 128
Jolly Fly 131
Jolly Up 133
Jolly Top I 135
Jolly Top 3V 139
Fcm 143

Radiators

Proteo-Proteo Hp 145
Xian N 146
Europa C 147
Tal 148
Ferroli Steel Panel Radiator 149
Rimini Dp 150
Napoli 151

RESIDENTIAL & COMMERCIAL AC 153

Direct Expansion

Giada S 154
Giada M 156
Giada-C Cassette 161
Giada-C Duct 164

Giada-C Floor&Ceiling 167
Giada-C 170

WATER HEATERS: GAS, ELECTRIC & HP 171

Gas

Externo 172
Pegaso Eco 174
Kona 175

Electrical

Titano Twin 177
Titano Smart Bf 178
Titano Bf 179
Calypso 180
Calypso Eco 181
Calypso Mt 182
Calypso Xl 183
He 150 - 300 184
He 400 - 500 185
G-He 186
Bravo 187
Novo 187
Cubo 188
Rita Fs De 188
Mito Smd 189
Amore 189
Mini 190

Heat Pump

Egea Tech 90 - 120 Lt 191
Egea Tech 200-260 Ht / Lt / Lt-S 193

BUFFERS & STORAGE 195

Ecounit N 196
Ecounit F 197
Ecounit Hp 198
Ecopuffer Hp 199

OIL & GAS BURNERS 201

Light Oil Burners

Tecno Blu 2
Tecno/2 Blu 4

Gas Burners

Booster 7
Booster/2 1
Booster/Pr 5

BIOMASS 221

Avana N 222
Biopellet Combi 223
Biopellet Pro 224
Biopellet Uno 225
Biopellet Top 226
Lira Slim Plus 227
Corona 228
Elda 229
Penelope Hrn 230
Breta Pellet Pro 231
Mirano Pellet Pro 232
Sun P N 233

SOLAR THERMAL 235

Solarevo Nat 236
Solar Compact Kit 237
Solarevo V 238

WATER TREATMENT 239

Micro 240
Sweet Water 241
Double Svt N 242
Double Plus Svt N 243
Dosacompact 244
Dosaplus 245
Defender 246

SYSTEM CONTROL COMPONENTS 247

Connect 248
Fz4 B Zone Board 248
Romeo N 249
Cronorem 249
Connect Crp 250
Connect Crp Zones 250
Theta+ 251
Thermostatic Control Board 253

NATURAL REFRIGERANT R290

Ready for the future, today!



WHAT IS IT AND WHY USE IT?

R290 is a natural refrigerant with a low environmental impact, featuring a GWP (Global Warming Potential) of just 3, which is extremely low compared to other commonly used refrigerants such as R32 (GWP 675) or R410A (GWP 2088).

This means that in the event of a leak of 1 kg of R290, the resulting atmospheric warming effect would be 225 times lower than with 1 kg of R32, or 696 times lower than with R410A.

From an environmental and sustainability perspective, R290 is by far the most suitable refrigerant—and it will likely remain so for many years to come.

Moreover, it offers excellent thermodynamic performance, allowing for higher water outlet temperatures in heating and domestic hot water (DHW) production—up to 80°C—ensuring heat pump operation in outdoor temperatures from -25°C to +46°C.

Its low environmental impact, combined with its high thermodynamic efficiency, makes R290 the ideal refrigerant for a successful energy transition, enabling more efficient, sustainable, and eco-friendly air-to-water heat pumps.

OMNIA LIFE M

Powered by R290

EFFICIENCY AND COMFORT
COME TOGETHER
IN THE NEW
R290 GAS HEAT PUMP



Ferroli
www.ferroli.com


OMNIA FT
Powered by R290
INDOOR HYDRONIC UNIT
WITH INTEGRATED DHW TANK,
COMPATIBLE WITH OMNIA M 3.2
AND OMNIA LIFE M MONOBLOC
HEAT PUMPS.
Ferroli
www.ferroli.com

FERROLI — A HUB OF INNOVATION

A 2,500 m^2 Technology and R&D Center dedicated to innovative solutions for electrification and new green gases, including hydrogen.





The new Research & Development Center is designed to create cutting-edge, increasingly sustainable systems:
heat pumps using natural refrigerants with near-zero environmental impact, and hydrogen-powered boilers.



SPECIAL PROJECTS: HYDROGEN

Moving further from coal, closer to hydrogen



THE CLIMATE

For years we have been witnessing a steady and undeniable climate change.

The continuous increase in CO_2 and greenhouse gas emissions is gradually leading to a rise in global average temperatures and a series of potentially disastrous side effects.



THE EUROPEAN UNION

The European Union is committed to limiting climate change through legislative packages aimed at reducing greenhouse gas emissions by at least 55% by 2030. It also requires member states to achieve at least 40% renewable energy use and increase energy efficiency by 32.5%.

OUR COMMITMENT

Ferroli has long been investing in the development of home comfort systems with low pollutant levels and minimal climate-altering emissions.
Today, the entire range of residential wall-hung condensing boilers is designed to operate with Natural Gas/Hydrogen blends up to 80%/20%.

H2 HYDROGEN PLUG-IN

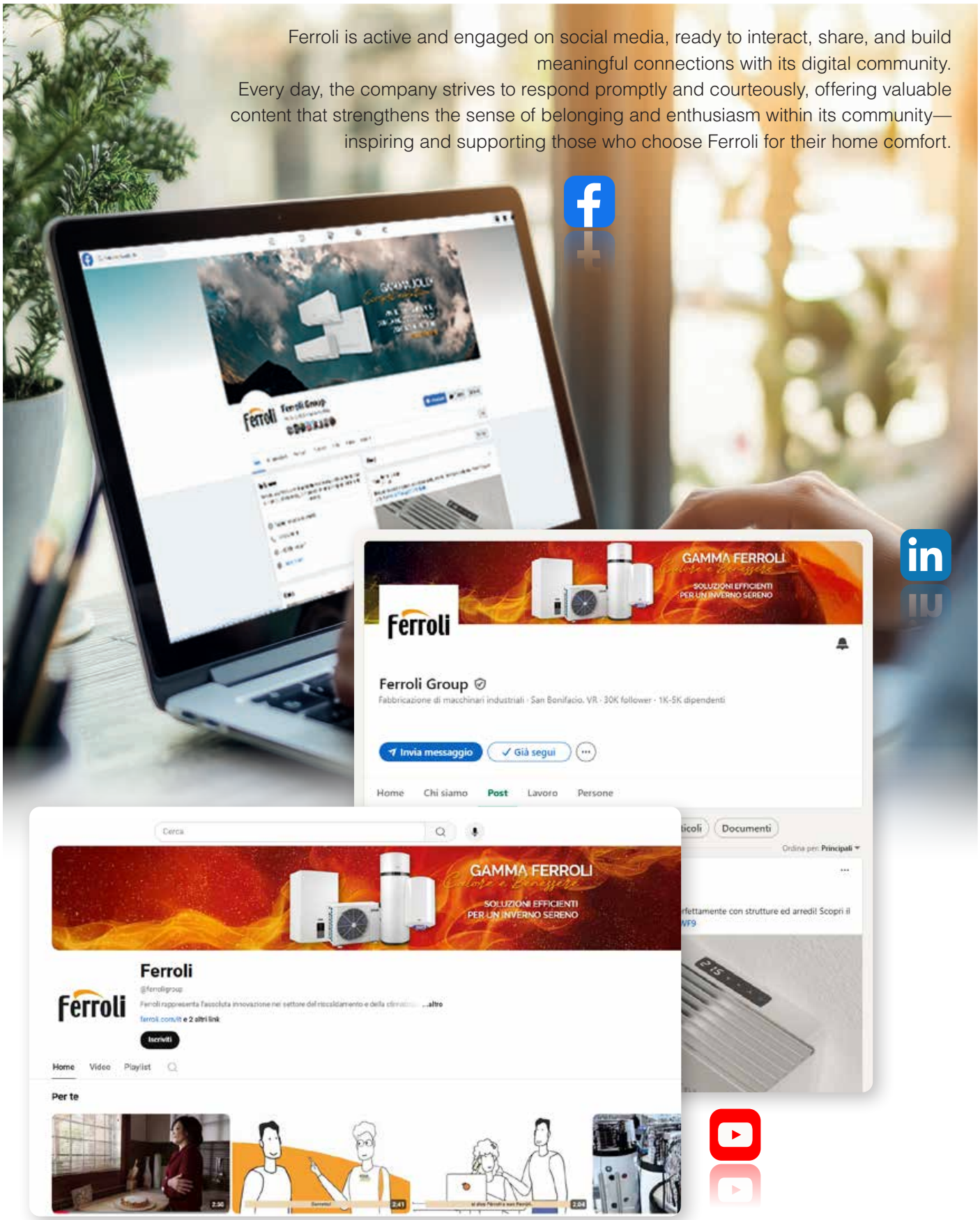
THE NEW CHALLENGE: HYDROGEN

Ferroli has enthusiastically embraced this challenge! We are preparing to bring to market a new boiler for heating and domestic hot water production, powered entirely by pure green hydrogen.

SOCIAL MEDIA

Ferroli maintains official profiles on all major social platforms

Ferroli is active and engaged on social media, ready to interact, share, and build meaningful connections with its digital community.
Every day, the company strives to respond promptly and courteously, offering valuable content that strengthens the sense of belonging and enthusiasm within its community—inspiring and supporting those who choose Ferroli for their home comfort.



FERROLI ACADEMY

We aim to be the best in customer support

An innovative training project designed to become a benchmark in the HVAC sector, with four training centers equipped with state-of-the-art, fully functional products.
A dedicated digital training portal offers live sessions as well as online e-learning activities.



MAIN LOCATION

SAN BONIFACIO (VR)
550 m² exhibition, training & showroom area
50 working products
3 technical rooms
Showroom/Event Room - 80 people
Training Room - 30 people



OTHER FERROLI ACADEMY LOCATIONS

ROME
150 m² exhibition area
30 working products
Training Room - 30 ppl



BOLOGNA
250 m² exhibition area
35 working products
Training Room - 25 ppl
Meeting Room - 8 ppl



MOLFETTA (BA)
150 m² exhibition & training area
25 working products
Training Room - 20 ppl



SPARE PARTS HUB

Thinking big to provide fast, reliable service

Ferroli Lamborghini CALORECLIMA | SPARE PARTS

A new spare parts logistics center, among the largest in Europe:

* 3,000 m² total area
* Over 6,000 spare parts always available
* 24-hour express shipping
* Online shipment tracking



Spare Parts Distribution Center located in San Bonifacio (VR)

3,000 m² total area, one of the largest in Europe

Shipment tracking available for all our Service Centers

95% of shipments dispatched within 24 hours of order entry on ServiceNet

Fast Track Service

6,000 spare parts continuously managed in stock

ROADSHOW

Training on the move



A fleet of next-generation Smart Trucks is traveling across Italy to deliver on-the-road training for different areas of expertise.

These vehicles not only bring training directly to installers but also offer a unique hands-on experience.

Installers can see and interact directly with a wide range of products, all electrically functional for real-time demonstrations.

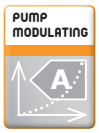
This initiative not only enhances practical learning but also creates an immersive environment, fostering a deeper understanding of our products and strengthening the collaboration between manufacturer and installer with a tangible, real-world experience.



KEY OF SYMBOLS



Products for replacement with identical model only (restiction valid only in the EU)



Equipment fitted with **low consumption high modulating efficiency circulator (Erp Ready - Class A)**



You can **delay burner ignition** by starting it up only when domestic hot water is actually drawn



PRODUCT FOR EXTRA EU MARKETS ONLY. Product not admitted in the EU (can only be sold and installed in the EU if firstly introduced in the EU market before 26 September 2015).



Ultra high performing "Blue Forever" electrical heating elements featuring a special surface treatment that almost entirely reduces limescale build-up



This equipment is designed specifically to offer **particularly simple** installation and maintenance



Remote control of boiler parameters via remote control



Stainless steel high performance bivalent **primary exchanger**



F.P.S: **F**lue gas **P**rotection **S**ystem. The check valve offers **easy connection to pressurised collective flue systems** (ex. in restructuring), in accordance with regulation UNI 7129



The equipment is only suitable for operation in **indoor locations**



Stainless steel high performance mono-thermal **primary exchanger**



MC²: Multy **C**ombustion **C**ontrol, new combustion system with patented gas-adaptive technology



Suitable for operation **outdoors** with a minimum temperature of **-T1°C for the standard version** and, if fitted with the antifrost kit, even **-T2°C**



Stainless steel **exchanger Patented AISI 316 TI**



M.G.R: Methane, **L**pg, Propane-air **R**eady, with a simple configuration the boiler can run on natural gas, lpg without the use of any additional conversion kits



Suitable for operation **outdoors** with a minimum temperature of **-T1°C for the standard version** and, if fitted with the antifrost kit, even **-T2°C**



The device is suitable to be combined with traditional **high temperature** systems; it cannot be combined or installed with direct delivery to systems with low temperature radiant panels



Approved for operation with **50mm diameter flue gas discharge**



Appliance certified as **"range rated"** according to EN 15502



Appliance can be combined with preheating systems for the domestic hot water



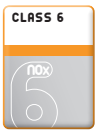
Antifrost function, if gas and power supplied



Possible connection to an optional outdoor probe, thus enabling **system flow temperature compensation**



Generator equipped with devices to **facilitate handling** during shipping and installation



Minimum polluting emissions **(class 6 according to EN 15502-1)** already in compliance with the requirements of the ErP directive of 26.09.2018 (NOx emissions < 56mg/kWh)



It reaches **one of the highest seasonal room heating efficiencies** in its category: η_s **94%**



Simplified electric wiring with direct access to the external connection terminal board available on the lower part of the device



Modulating ratio between **Pmax** and **Pmin**



Operating with **natural gas mixtures enriched with hydrogen** already provided for distribution in Europe (*)
(*) mixtures of Natural Gas/Hydrogen 80%/20%



Product with Keymark quality certification



Exclusive integrated Ferroli **"Thermobalance"™** combustion cell

KEY OF SYMBOLS



Advanced connectivity integrated as standard or available as an accessory



Function (designed and patented by FERROLI) that optimises domestic hot water production while ensuring maximum user comfort



Cascade operation capability



Easy configuration via USB port



Eco-friendly refrigerant with low environmental impact and high efficiency



Unit able to produce water up to T1 °C



Compatible with photovoltaic systems



Compatible with Smart Grid Ready smart networks



Low-noise operation



Compact design, suitable for any environment



Hydraulic connection between outdoor and indoor units



Integrated condensate drain pump (or available as an accessory)



Unit can be installed either on the ceiling or on the floor



Provision for fresh air intake or air discharge into an adjacent room through ducting



360° air outlet for optimal temperature distribution in the room



Automatic airflow adjustment according to operating conditions



Static pressure up to 160 Pa to meet every installation requirement



Golden Fin protection on the finned coil



Product suitable for Factory-Made Hybrid Systems

RESIDENTIAL BOILERS: CONDENSING, TRADITIONAL & ELECTRIC

CONDENSING
TRADITIONAL

BLUEHELIX HITECH RRT

WALL HUNG CONDENSING BOILERS INSTANT DOMESTIC, HOT WATER PRODUCTION ON MODEL. "C"



> STRENGTHS:

- **Boiler** with high thickness stainless steel primary heat exchanger, with large passes (the largest in the category) guaranteeing duration and reduced maintenance, it maintains high efficiency even on old systems with oxidation and soiling
- SYSTEM: being combined with the **CONNECT** modulating remote control, and the outdoor temperature reading directly from the internet, it reaches the **maximum energy efficiency A+**
- **Class 6 NOx:** already in compliance with the requirements of the ErP regulation of 26.09.2018 (NOx emissions < 56mg/kWh)
- **MC²: M**ulti **C**ombustion **C**ontrol, new combustion system with industrial-derived gas-adaptive patented technology for better adaptability of use to the varying gas network conditions (e.g. pressure fluctuations or drops)
- **M.G.R: M**ethane **L**PG **R**eady, with a simple configuration the boiler can run on methane or LPG without using additional conversion kits
- Exclusive exchanger-**burner system with self-cooling door:** it simplifies maintenance and lowers the cost thanks to a lower number of consumable parts
- **Instantaneous production** of domestic hot water with a dedicated DHW plate exchanger on version C. version H can be connected with a free-standing DHW tank
- **Hydraulic fittings** covered by the boiler casing
- Large **multi-purpose backlit** graphic display to set parameters easily and correctly
- **Bypass** as per standard
- It easily adapts to the load conditions thanks to the **broad modulating range** that can reach 1:10 (1:10 mod. 34 C, 1:9 mod. 28 C, 1:7 mod 24 C).

> ADVANTAGES OF BLUEHELIX HITECH RRT:

- **Particularly suitable for operation in flues requiring "heavy duty" pipes thanks to approval for operation with 50mm diameter flue outlets**
- **F.P.S: F**lue gas **P**rotection **S**ystem. The **flue gas check valve** provided as per standard offers easy connection to pressurised collective flue systems (e.g. in restructuring), in accordance with regulation UNI 7129
- Designed to **simplify and make normal** maintenance and cleaning **steps easier**
- **Solar system set-up:** set up for the production of domestic hot water combined with solar panel systems (mod. C)
- **ECO function** in DHW mode for more savings when hot water is not really used (only for version C)
- **Digital flame control** with three ignition attempts if operation gets blocked due to failed flame detection (only in natural gas mode)
- **Place of installation:** also outdoors, in a partially protected place down to -5°C as per standard and even -15°C with the addition of the optional antifreeze heaters kit

HYDROGEN PLUG-IN

IBRIDI FACTORY MADE

COLLECTIVE PRESSURISED

MULTI COMB. CONTROL

RANGE RATED

mod. C only

mod. C only

EASY MAINTENANCE

FLUE GAS Ø 50mm

METHANE LPG READY

STOP AND GO

CLIMATIC

MODE

EXCHANGER STAINLESS STEEL

ETAs 94%

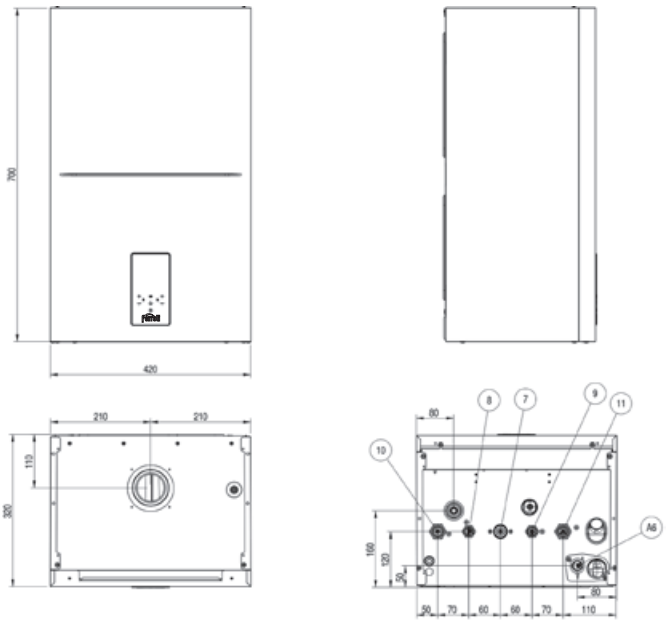
REMOTE

PROTECTED

RANGE

BLUEHELIX HITECH RRT		24 C	28 C	34 C	28 H	34 H	45 H
ERP Class		A	A	A	A	A	A
		XL A	XL A	XXL A	-	-	-
Heating max /min heat input	kW	20.4 / 3.5	24.5 / 3.5	30.6 / 3.5	28.5 / 3.5	34.7 / 3.5	43.9 / 6.4
Heating max /min heat output (80/60°C)	kW	20.0 / 3.4	24.0 / 3.4	30.0 / 3.4	27.9 / 3.4	34.0 / 3.4	42.9 / 6.3
Heating max /min heat output (50/30°C)	kW	21.6 / 3.8	26.0 / 3.8	32.5 / 3.8	30.2 / 3.8	36.8 / 3.8	46.5 / 6.9
DHW max heat input (Hi)	kW	25.0	28.5	34.7	-	-	-
DHW min heat input (Hi)	kW	3.5	3.5	3.5	-	-	-
DHW max / min heat output	kW	24.5 / 3.4	28.0 / 3.4	34.0 / 3.4	-	-	-
Pmax / Pmin efficiency (80-60°C) (Hi)	%	98.1 / 98.0	98.1 / 98.0	97.9 / 98.0	98.1 / 98.0	97.9 / 98.0	97.8 / 98.0
Pmax / Pmin efficiency (50-30°C) (Hi)	%	106.1 / 107.5	106.1 / 107.5	106.1 / 107.5	106.1 / 107.5	106.1 / 107.5	106.1 / 107.6
Efficiency 30%	%	109.7	109.7	109.5	109.5	109.5	109.5
Max / Min heating working pressure	bar	3 / 0.8	3 / 0.8	3 / 0.8	3 / 0.8	3 / 0.8	3 / 0.8
Max heating temperature	°C	95	95	95	95	95	95
DHW max / min working pressure	bar	9 / 0.3	9 / 0.3	9 / 0.3	-	-	-
DHW flow rate Δt 25°C / Δt 30°C	l/min	14 / 11.7	16.1 / 13.4	19.5 / 16.2	-	-	-
Empty weight	kg	28	28	32	28	32	35
No. of pieces/pallet	**nr.**	**10**	**10**	**10**	**10**	**10**	**10**
CODE	**NAT GAS/LPG**	**0T4B2AWA**	**0T4B4AWA**	**0T4B7AWA**	**0T4D4AWA**	**0T4D7AWA**	**0T4D9AWA**

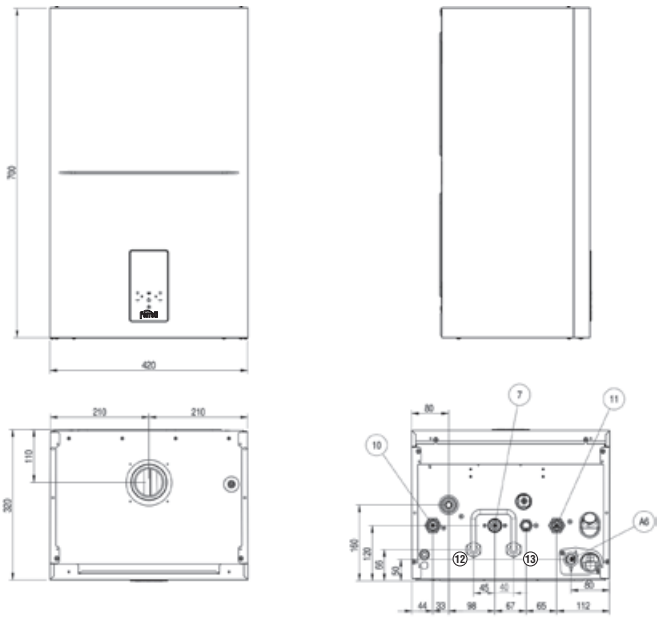
BLUEHELIX HITECH RRT C



VIEW FROM ABOVE

VIEW FROM BELOW

BLUEHELIX HITECH RRT H



VIEW FROM ABOVE

VIEW FROM BELOW

> ACCESSORIES FOR FLUES DIAMETER Ø 50 MM

	DESCRIPTION	CODE
	Extension 1 m ø 50 twin pipes	041086X0
	Bend 90° ø 50 twin pipes	041085X0
	Reduction from ø 80 to Ø 50 twin pipes (1 piece)	041087X0

KEY

7 3/4" gas inlet
8 1/2" DHW outlet
9 1/2" DHW inlet
10 3/4" system delivery
11 3/4" system return
12 3/4" flow to tank
13 3/4" return from tank
A6 condensate discharge connection

> HYDRAULIC AND CONTROL ACCESSORIES - STARTING FLUE ACCESSORIES

	DESCRIPTION	CODE
	galvanised template	046049X0
	kit for connection of fittings complete with gas tap with cone, DHW tap, 2 system taps, pipes, nipple, gaskets (model C only)	012043W0
	kit for connection of fittings complete with gas tap with cone, DHW tap, pipes, nipple, gaskets (model C only)	012048W0
	kit for connection of 5 pipe fittings NB: the kit does not include taps and connection nipples (model C only)	012049W0
	outdoor probe	013018X0
	thermostatic mixer kit 1/2" connections	013002X0

	DESCRIPTION		CODE
	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers		041084X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensing boilers		041006X0
	coupling for vertical coaxial pipe ø 100/60 mm for condensing boilers		041083X0
	discharge kit twin pipes 80/80 for condensing boilers complete with test point		041082X0
	auxiliary antifrost kit down to -15°C		013022X0
	additional sensor for managing any external storage tank (model H only)	cable 2 m	1KWMA11W
		cable 5 m	043005X0

BLUEHELIX HITECH RRT K 50

CONDENSING WALL HUNG BOILER, STAINLESS STEEL DHW STORAGE TANK



> STRENGTHS:

- **Boiler** with **high thickness stainless steel primary heat exchanger, with large passes** (the largest in the category) guaranteeing duration and reduced maintenance, it maintains high efficiency even on old systems with oxidation and soiling
- SYSTEM : combined with the modulating remote control and the external probe (optional) it reaches the top efficiency class **A+**
- It easily adaptsto the load conditions thanks to the **broad modulating range** that can reach **1:10** (mod. 34)
- **MC²: M**ulti **C**ombustion **C**ontrol, new combustion system with industrial-derived gas-adaptive patented technology for better adaptability of use to the varying gas network conditions (e.g. pressure fluctuations or drops)
- **M.G.R: M**ethane, **L**PG, Propane-Air **R**eady with a simple configuration the boiler can run on methane, LPG and propane-air without the use of any additional conversion kits
- **Exclusive exchanger-burner system with self-cooling door:** it simplifies maintenance and lowers the cost thanks to a lower number of parts that need replacing.
- **DHW production** with 50-litre stainless steel storage tank
- Set-up for **recirculation fittings** (provided with the accessory: fitting connection kit)
- **Hydraulic fittings covered** by the boiler shell
- **Bypass as per standard**

> ADVANTAGES OF BLUEHELIX HITECH RRT K 50:

- **Particularly suitable for operation in flues requiring "heavy duty" pipes thanks to approval for operation with 50mm diameter flue outlets**
- **F.P.S: F**lue gas **P**rotection **S**ystem. The flue gas check valve provided as per standard offers easy connection to pressurised collective flue systems (e.g. in restructuring), in accordance with regulation UNI 7129
- **Designed to simplify and make normal maintenance and cleaning steps easier**
- **Antilegionella function** with programmable timing
- **Timed block protection** for circulator and three-way valve
- **Sliding temperature operating mode** through external probe (optional)
- **Low consumption modulating** heat pump **(ErP Ready - Class A)**

H2 HYDROGEN PLUG-IN

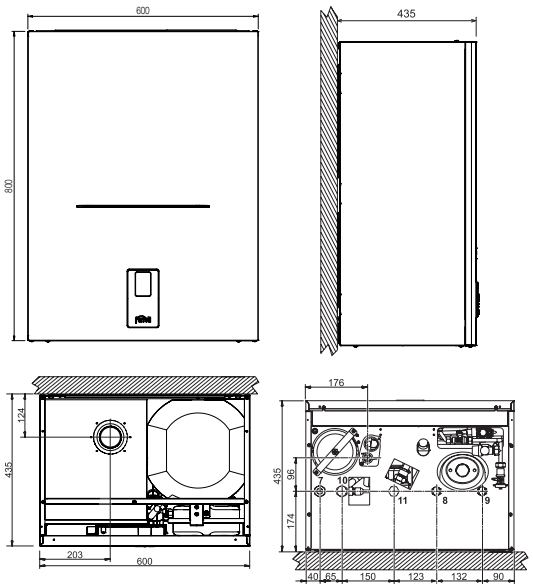
IBRIDI FACTORY MADE

THERMO BALANCE

EASY MAINTENANCE | FLUE GAS Ø 50mm | METHANE LPG READY | MULTI COMB. CONTROL | CLIMATIC | RANGE 1:10 | COLLECTIVE PRESSURISED | ETAs 94% | EXCHANGER STAINLESS STEEL | PROTECTED -5°C | REMOTE

MODEL			28 K 50	34 K 50
ERP Class			A	A
			XL A	XXL A
Heat input (LCV)	Heating Min / Max	kW	3,5 / 24,5	3,5 / 30,6
	Max DHW	kW	28,5	34,7
Heat output 80°C-60°C	Heating Min / Max	kW	3,4 / 24,0	3,4 / 30,0
	Max DHW	kW	28,0	34,0
50°C-30°C	Heating Min / Max	kW	3,8 / 26,0	3,8 / 32,5
Useful thermal efficiency	80°C-60°C	Pmax % / Pmin %	98,1 / 98,0	97,9 / 98,0
	50°C-30°C	Pmax % / Pmin %	106,1 / 107,5	106,1 / 107,5
	Reduced load 30%	Pmax %	109,7	109,6
Nox emissions class		class	6	6
Storage tank capacity		litres	50	50
Domestic hot water production	Δt 30°C	l/10 min	161	195
	Δt 30°C	l/h	831	1005
Heating working pressure	Max	bar	3	3
DHW working pressure	Max	bar	9	9
Empty weight		kg	62	65
No. of pieces/pallets		**no.**	**6**	**6**
CODE		**NATURAL GAS**	**0T4T4AWA**	**0T4T7AWA**

BLUEHELIX HITECH RRT K 50



VIEW FROM ABOVE VIEW FROM BELOW

> KEY

7 Gas inlet - 3/4"
8 DHW outlet - 1/2"
9 Cold water inlet - 1/2"
10 System flow - 3/4"
11 System return - 3/4"
A6 Condensate drain connection

> ACCESSORIES FOR FLUES DIAMETER Ø 50 MM

	DESCRIPTION	CODE
	Extension 1 m ø 50 twin pipes	041086X0
	Bend 90° ø 50 twin pipes	041085X0
	Reduction from ø 80 to Ø 50 twin pipes (1 piece)	041087X0

> HYDRAULIC AND CONTROL ACCESSORIES - STARTING FLUE ACCESSORIES

	DESCRIPTION	CODE
	kit for connection of fittings complete with gas tap with cone, DHW tap, 2 system taps, pipes, nipple, gaskets, recirculation fitting	012045W0
	outdoor probe	013018X0
	thermostatic mixer kit 1/2" connections	013002X0

	DESCRIPTION	CODE
	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers	041084X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensing boilers	041006X0
	coupling for vertical coaxial pipe ø 100/60 mm for condensing boilers	041083X0
	discharge kit twin pipes 80/80 for condensing boilers complete with test point	041082X0

BLUEHELIX ALPHA

WALL HUNG CONDENSING BOILERS
INSTANTANEOUS DHW PRODUCTION



H2 HYDROGEN PLUG-IN

IBRIDI FACTORY MADE

> STRENGTHS:

- Boiler with single-circuit stainless steel primary exchanger without joints and/or welding, it maintains high efficiency even in old systems.
- **MC²: M**ulti **C**ombustion **C**ontrol, new combustion system with gas-adaptive patented technology of industrial origin for better adaptability of use to the varying gas mains conditions (e.g. pressure fluctuations or drops)
- **M.L.R: M**ethane, **L**PG, Propane-air **R**eady with a simple configuration the boiler can run on methane, LPG and propane-air without using additional conversion kits
- **Instantaneous production** of domestic hot water with **a dedicated** DHW plate exchanger
- User interface with display and multi-purpose keys to adjust and set the parameters
- **Bypass as per standard**

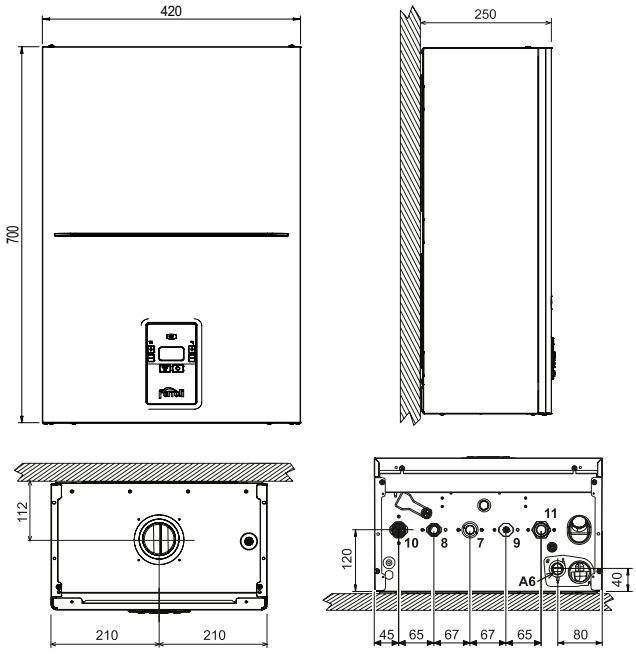
> ADVANTAGES OF BLUEHELIX ALPHA:

- **Solar system set-up:** set up for the production of domestic hot water combined with solar panel systems
- **Flue ducting:** particularly suitable for operation in flues requiring "heavy duty" pipes thanks to approval for operation with 50mm diameter flue outlets.
- **Minimum polluting emissions** (class 6 according to EN 15502-1)
- **Sliding temperature operating mode** through outdoor probe (optional)
- **Low consumption modulating** circulator (ErP Ready - Class A)
- SYSTEM: (for **mod. 28C** and **34C**) combined with the modulating remote control CONNECT, it reaches the top efficiency class A+
- User interface with display and multi-purpose keys to adjust and set the parameters
- **Digital flame control** with three ignition attempts if operation gets blocked due to failed flame detection (methane mod.)
- **Place of installation:** also outdoors, in a partially protected place down to -5°C as per standard and even -15°C with the addition of the optional antifreeze heaters kit
- Removable **casing** into three pieces for easier maintenance or inspection.
- **F.P.S.: F**lue gas **P**rotection **S**ystem. The optional flue gas accessory (041106X0 - Exhaust gas check valve kit), which can be installed outside the boiler, allows an easy connection to pressurised collective flue systems (e.g. in restructuring), in accordance with the UNI 7129 standard.
  NOTE: the kit cannot be used in recessed installations.



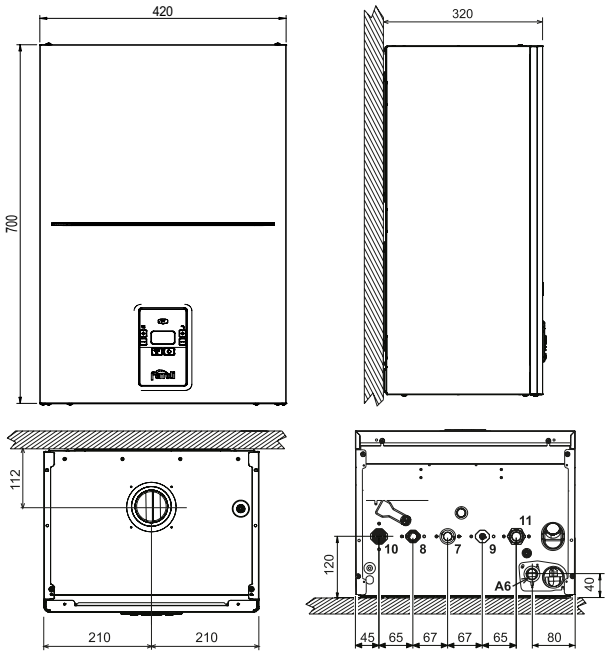
BLUEHELIX ALPHA		24 C	28 C	34 C
ERP Class		A	A	A
	XL	A	A	A
Heating max / min heat input (Hs)	kW	20.6 / 4.2	24.5 / 4.8	30.7 / 5.0
Heating max / min heat output (80/60°C)	kW	20 / 4.1	24 / 4.7	30 / 4.8
Heating max / min heat output (50/30°C)	kW	21.8 / 4.5	26 / 5.0	31.9 / 5.4
DHW max / min heat input (Hi)	kW	25 / 4.2	28.5 / 4.8	34.8 / 5.0
DHW max / min heat output	kW	24.3 / 4.1	28.0 / 4.8	34.0 / 4.8
Pmax efficiency (80-60°C) (Hi)	%	97.1	97.8	97.7
Pmin efficiency (80-60°C) (Hi)	%	97.0	97.6	97.2
Pmax efficiency (50-30°C) (Hi)	%	105.8	106.1	106.2
Pmin efficiency (50-30°C) (Hi)	%	106.9	107.3	107.1
Efficiency 30%	%	108.8	109.7	109.7
Max / Min heating working pressure	bar	3 / 0.8	3 / 0.8	3 / 0.8
Max heating temperature	°C	95	95	95
Heating water content	litres	3.0	3.4	4.3
Heating expansion vessel capacity	litres	8	8	10
Heating expansion vessel preload pressure	bar	0.8	0.8	0.8
DHW max / min working pressure	bar	9 / 0.3	9 / 0.3	9 / 0.3
DHW flow rate Δt 25°C	l/min	14	16.1	19.5
DHW flow rate Δt 30°C	l/min	11.7	13.4	16.2
Empty weight	kg	27	27	31
No. of pieces/pallet	**nr.**	**12**	**12**	**10**
CODE	**NAT GAS/LPG**	**0TPF2AWA**	**0TPF4AWA**	**0TPF7AWA**

BLUEHELIX ALPHA 24 C - 28 C



VIEW FROM ABOVE VIEW FROM BELOW

BLUEHELIX ALPHA 34 C



VIEW FROM ABOVE VIEW FROM BELOW

> ACCESSORIES FOR FLUES DIAMETER Ø 50 MM

	DESCRIPTION	CODE
	Extension 1 m ø 50 twin pipes	041086X0
	Bend 90° ø 50 twin pipes	041085X0
	Reduction from ø 80 to Ø 50 twin pipes (1 piece)	041087X0

> KEY

7 3/4" gas inlet
8 1/2" DHW outlet
9 1/2" DHW inlet
10 3/4" system flow
11 3/4" system return

> HYDRAULIC AND CONTROL ACCESSORIES - STARTING FLUE ACCESSORIES

	DESCRIPTION	CODE
	kit for connection of fittings complete with gas tap with cone, DHW tap, 2 system taps, pipes, nipple, gaskets	012043W0
	kit for connection of fittings complete with gas tap with cone, DHW tap, pipes, nipple, gaskets	012048W0
	kit for connection of 5 pipe fittings nb: the kit does not include taps and connection nipples	012049W0
	outdoor probe	013018X0
	thermostatic mixer kit 1/2" connections	013002X0

	DESCRIPTION	CODE
	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers	041084X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensing boilers	041006X0
	coupling for vertical coaxial pipe ø 100/60 mm for condensing boilers	041083X0
	discharge kit twin pipes 80/80 for condensing boilers complete with test point	041082X0
	Kit backflow preventer valve	041106X0
	auxiliary antifrost kit down to -15°C	013022X0

BLUEHELIX HITECH RRT B K 50

CONDENSATION BASE BOILER, STAINLESS STEEL DOMESTIC HOT WATER STORAGE



> STRENGTHS:

- **Boiler** with **high thickness stainless steel primary exchanger, with increased passages** (at the top of the category) to guarantee durability and reduced maintenance, maintains high efficiency even on old plants with oxidation and dirt
- SYSTEM : combined with the remote modulating control and with the external probe (optional), it reaches the higher efficiency class **A+**
- Easily adapts to load conditions thanks to the **wide modulation range** that can reach up **to 1:10**
- **MC²: M**ulti **C**ombustion **C**ontrol, a combustion system with patented gas-adaptive technology of industrial derivation for a better adaptability of use to varying conditions of the gas network (e.g. fluctuations or reduced pressures)
- **M.G.R: M**ethane, **G**pl, propanated air **R**eady through a simple configuration, the boiler is able to operate on methane, LPG and propanated air without the use of additional conversion kits
- Exclusive **heat exchanger-burner system with self-cooled door:** simplifies maintenance and reduces cost thanks to fewer parts to replace.
- **Production of domestic hot water** with 50-litre stainless steel storage
- Preparation for **recirculation attacks**
- **Easy access hydraulic and gas connections** to facilitate replacements of old generators
- **Flue gas discharge with split or coaxial pipes**; possibility of right and left side outlet, rear
- **By-pass as standard**
- **"Range Rated"** certified generator: the maximum thermal flow in heating can be adapted to the thermal demand of the system while maintaining the efficiency values declared in the approval

> ADVANTAGES OF BLUEHELIX HITECH RRT B K 50:

- **Particularly suited to operating in flues requiring "heavy-duty" pipes thanks to approval for operation with flue gas exhaust pipes with a diameter of 50mm**
- **F.P.S: F**lue **P**rotection **S**ystems. The smoke clapper valve fitted as standard on the boiler allows easy connection to collective pressure flue systems (e.g. in renovations), in accordance with UNI 7129 standard
- **Designed to simplify and facilitate normal maintenance and cleaning**
- **Anti-legionella** function with programmable timing from 1 to 7 days
- **Timed anti-lock** for circulator and three-way valve
- **Sliding temperature operation** via optional external probe
- **Installation site:** also for outdoor use in partially protected areas up to -5°C as standard

H2 HYDROGEN PLUG-IN

HYBRID FACTORY MADE

THERMO BALANCE

PRESSURE COLLECTIVES F P S

ETA$_s$ 94%

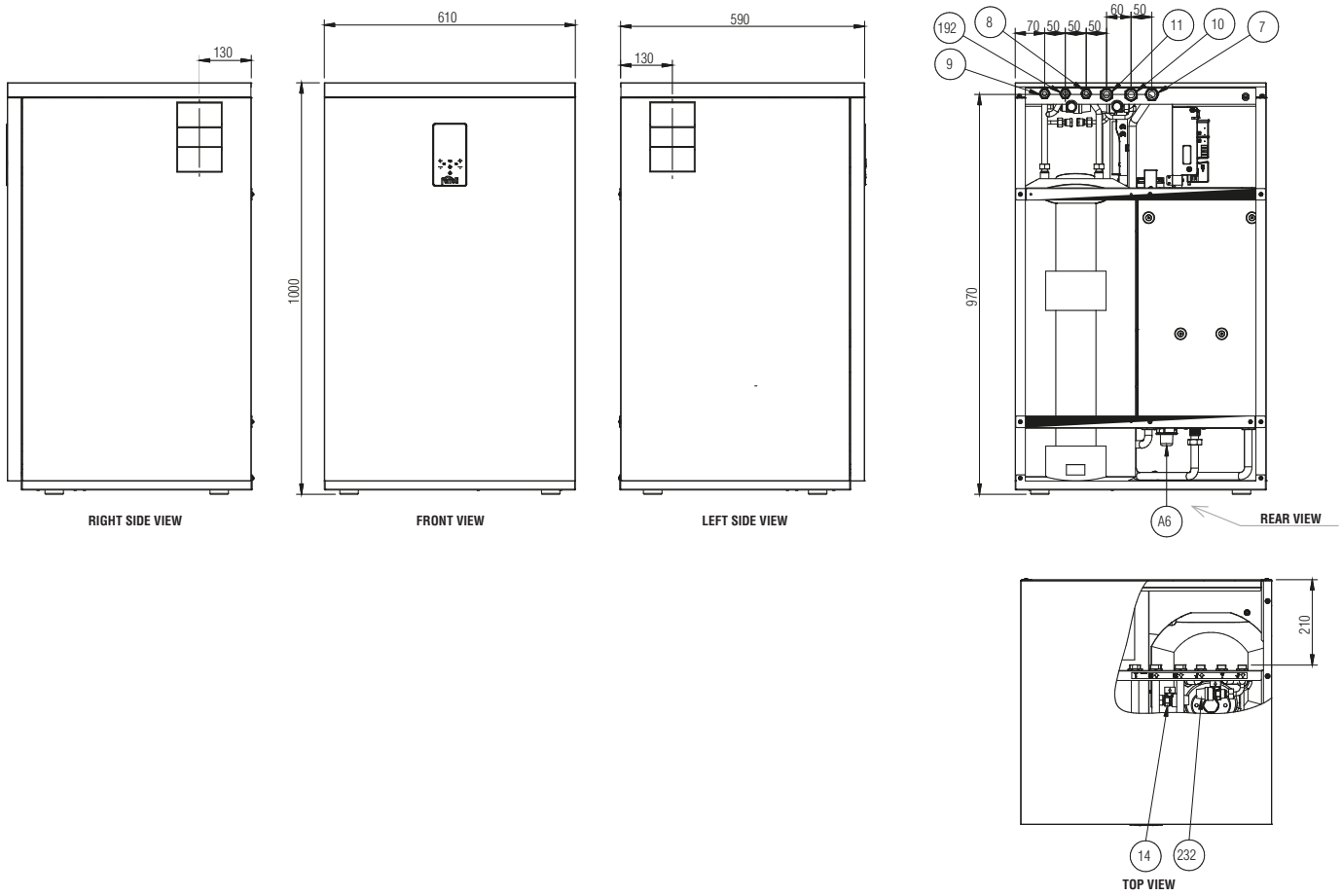
RANGE RATED

STAINLESS STEEL EXCHANGER

PROTECTED -5°C -15°C

MODEL			B 34 K 50
ERP Class			A
	XXL		A
Heat input	Min / Max Heating	kW	3.5 / 30.6
	Max DHW	kW	34.7
Thermal power 80°C-60°C	Min / Max Heating	kW	3.4/30.0
	Max DHW	kW	34.0
50°C-30°C	Min / Max Heating	kW	3.8/32.5
Useful thermal efficiency	80°C-60°C	Pmax % / Pmin %	97.9 / 98.0
	50°C-30°C	Pmax % / Pmin %	106.1 / 107.5
	Reduced load	30% Pmax %	109.6
Boiler capacity		litres	50
Domestic hot water production	Δt 30°C	l/10 min	206
	Δt 30°C	l/h	1016
Heating working pressure	Max	bar	3
DHW operating pressure	Max	bar	9
Empty weight		kg	65
CODE		**NATURAL GAS**	**0T4U7AWA**

BLUEHELIX HITECH RRT B K 50



> ACCESSORIES FOR FLUES DIAMETER Ø 50 MM

	DESCRIPTION	CODE
	Extension kit 1 mt Ø 50 split	041086X0
	90° Ø 50 split curve kit	041085X0
	Reduction kit M-F from Ø 80 to Ø 50 doubled (1 piece)	041087X0

> LEGEND

7 Gas inlet - ø 3/4"
8 Domestic hot water supply - ø 1/2"
9 Domestic hot water inlet - ø 1/2"
10 System delivery - ø 3/4"
11 System return - ø 3/4"
14 Heating safety valve
192 Recirculation - ø 1/2"
232 DHW safety valve
A6 Condensate drain connection

> HYDRAULIC AND CONTROL ACCESSORIES - STARTING FLUE ACCESSORIES

	DESCRIPTION	CODE
	external probe	013018X0
	Thermostatic mixer kit 1/2" connections	013002X0
	**Thermoregulations** to the chapter **SYSTEM CONTROL COMPONENTS**	

	DESCRIPTION	CODE
	90° coaxial curve, 360° rotatable with 45° pitch ø 100/60 mm for condensing boilers	041084X0
	Exhaust kit 80/80 separate tubes for condensing boilers complete with sockets for analysis	041082X0

BLUEHELIX SIGMA

WALL HUNG CONDENSING BOILERS INSTANT DOMESTIC HOT WATER PRODUCTION ON MODEL "C"



NEW

> STRENGTHS:

- Boiler with single-circuit stainless steel primary exchanger without joints and/or welding, it maintains high efficiency even in old systems
- **MC²: M**ulti **C**ombustion **C**ontrol, new combustion system with gas-adaptive patented technology of industrial origin for better adaptability of use to the varying gas mains conditions (e.g. pressure fluctuations or drops)
- **M.L.R: M**ethane, **L**PG, Propane-air **R**eady with a simple configuration the boiler can run on methane, LPG and propane-air without using additional conversion kits
- **Instantaneous production** of domestic hot water with **a dedicated** DHW plate exchanger
- User interface with display and multi-purpose keys to adjust and set the parameters
- **Bypass as per standard**

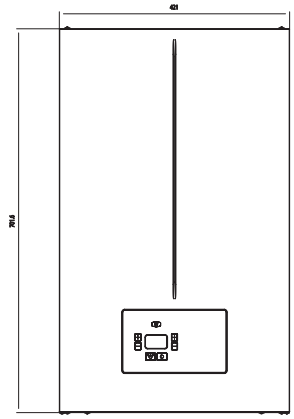
> ADVANTAGES OF BLUEHELIX SIGMA:

- **Solar system set-up:** set up for the production of domestic hot water combined with solar panel systems
- **Flue ducting:** particularly suitable for operation in flues requiring "heavy duty" pipes thanks to approval for operation with 50mm diameter flue outlets
- **Minimum polluting emissions** (class 6 according to EN 15502-1)
- **Sliding temperature operating mode** through outdoor probe (optional)
- User interface with display and multi-purpose keys to adjust and set the parameters
- **Digital flame control** with three ignition attempts if operation gets blocked due to failed flame detection (methane mod.)
- **Place of installation:** also outdoors, in a partially protected place down to -5°C as per standard and even -15°C with the addition of the optional antifreeze heaters kit
- Removable **casing** into three pieces for easier maintenance or inspection
- **F.P.S.: F**lue gas **P**rotection **S**ystem. The optional flue gas accessory (041106X0)
- Exhaust gas check valve kit), which can be installed outside the boiler, allows an easy connection to pressurised collective flue systems (e.g. in restructuring), in accordance with the UNI 7129 standard
- **NOTE:** the kit cannot be used in recessed installations

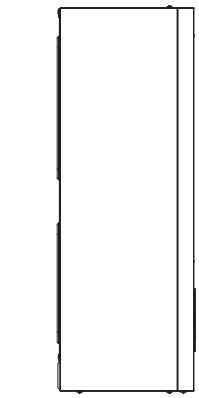


BLUEHELIX SIGMA		24 C	28 C	34 C	28 H	34 H
ERP Class		A	A	A	A	A
	XL	A	A	A	-	-
Max heating capacity	KW	20.6	24.5	30.7	24.5	30.7
Min heating capacity	KW	5	5.7	6	5.7	6
Max heat output in heating (80/60°C)	KW	20	24	30	24	30
Min heat output in heating (80/60°C)	KW	4.9	5.6	5.8	5.6	5.8
Max heat output in heating (50/30°C)	KW	21.8	26	32.6	26	32.6
Min heat output in heating (50/30°C)	KW	5.3	6.1	6.4	6.1	6.4
Max/Min heating capacity in DHW	KW	25 / 5	28.5 / 5.5	34.8 / 6	-	-
Max/Min heat output in DHW	KW	24.3 / 4.8	28 / 5.5	34 / 5.5	-	-
Pmax efficiency (80-60°C) (Hi)	%	97.2	97.8	97.7	97.8	97.7
Pmin efficiency (80-60°C) (Hi)	%	97	97.6	97.2	97.6	97.2
Pmax efficiency (50-30°C) (Hi)	%	105.8	106.1	106.2	106.1	106.2
Pmin efficiency (50-30°C) (Hi)	%	106.9	107.3	107.1	107.3	107.1
Efficiency 30%	%	108.8	109.7	109.4	109.7	109.4
Max/Mln working pressure in heating	bar	3 / 0.8	3 / 0.8	3 / 0.8	3 / 0.8	3 / 0.8
Heating max adjustment temperature	°C	95	95	95	95	95
Heating water content	liters	3	3.4	4.3	3.4	4.3
Heating expansion vessel capacity	liters	8	8	10	8	10
Heating expansion vessel precharge pressure	bar	0.8	0.8	0.8	0.8	0.8
Max/Min working pressure in DHW	bar	9 / 0.3	9 / 0.3	9 / 0.3	-	-
DHW flow rate (Δt 25°C)	l/min	14	16.1	19.4	-	-
DHW flow rate (Δt 30°C)	l/min	11.7	13.4	16.2	-	-
Empty weight	kg	29.9	29.9	31.7	28	31
CODE	**NAT GAS/LPG**	**GCBY6KYA**	**GCBY8KYA**	**GCBY9KYA**	**GCBG82YA**	**GCBG92YA**

BLUEHELIX SIGMA 24 C - 28 C - 28 H

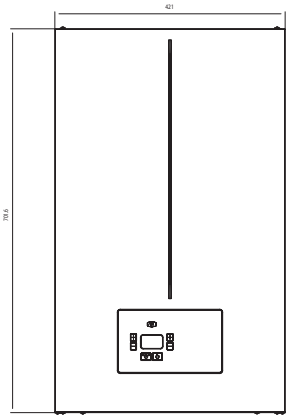


VIEW FROM ABOVE

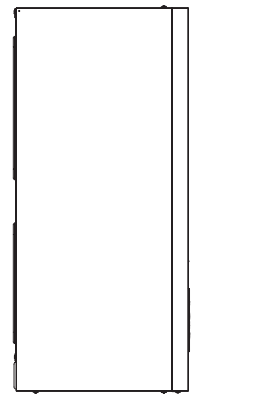


VIEW FROM BELOW

BLUEHELIX SIGMA 34 C - 34 H



VIEW FROM ABOVE



VIEW FROM BELOW

> ACCESSORIES FOR FLUES DIAMETER Ø 50 MM

	DESCRIPTION	CODE
	Extension 1 m ø 50 twin pipes	041086X0
	Bend 90° ø 50 twin pipes	041085X0
	Reduction from ø 80 to Ø 50 twin pipes (1 piece)	041087X0

> KEY

7 3/4" gas inlet
8 1/2" DHW outlet (Water tank outlet 3/4" mod. "H")
9 1/2" DHW inlet
10 3/4" system flow
11 3/4" system return
A6 Condensate discharge connection

> HYDRAULIC AND CONTROL ACCESSORIES - STARTING FLUE ACCESSORIES

	DESCRIPTION	CODE
	kit for connection of fittings complete with gas tap with cone, DHW tap, 2 system taps, pipes, nipple, gaskets	012043W0
	kit for connection of fittings complete with gas tap with cone, DHW tap, pipes, nipple, gaskets	012048W0
	kit for connection of 5 pipe fittings nb: the kit does not include taps and connection nipples	012049W0
	outdoor probe	013018X0
	thermostatic mixer kit 1/2" connections	013002X0

	DESCRIPTION	CODE
	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers	041084X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensing boilers	041006X0
	coupling for vertical coaxial pipe ø 100/60 mm for condensing boilers	041083X0
	discharge kit twin pipes 80/80 for condensing boilers complete with test point	041082X0
	Kit backflow preventer valve	041106X0
	auxiliary antifrost kit down to -15°C	013022X0

DIVATOP D

INSTANTANEOUS WALL-MOUNTED BOILERS WITH DOUBLE EXCHANGER AND PRESET FOR SYSTEM SOLAR

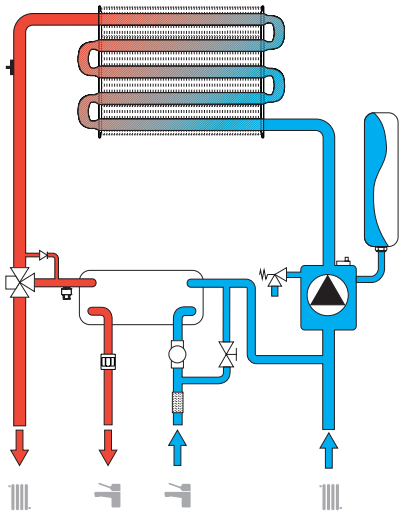


MOD C: OPEN FLUE
MOD F: ROOM SEALED

- **Primary heat** exchanger with compact geometry **made entirely of copper**
- **Instantaneous production** of domestic hot water with **dedicated plates** exchanger (combi models)
- New user interface with **«capsense» technology**, without mechanical keys and provided with **2.8'' graphical display**, allows the user to conveniently and simply interact with the product
- **Circulator with 3 levels** di flow rate/head pressure with **anti-blocking system** that is activated for a few seconds every 24 hours of inactivity
- New **hydraulic group specifically designed** to allow **quick and easy maintenance** by the installer
- Combi models are provided withe the **diverting valve** to manage an optional DHW tank
- Sliding temperature **operating mode** through external probe (optional)
- Can be combined with the **modulating remote control timer** (optional)
- Modulating**thermal flow** during both heating and production of DWH, managed by a microprocessor **electronic card**
- ECO/COMFORT system for **fast production** of DWH
- **Preset for solar energy system:** pre-set for production of domestic hot water combined with solar panel systems (SUN EASY)



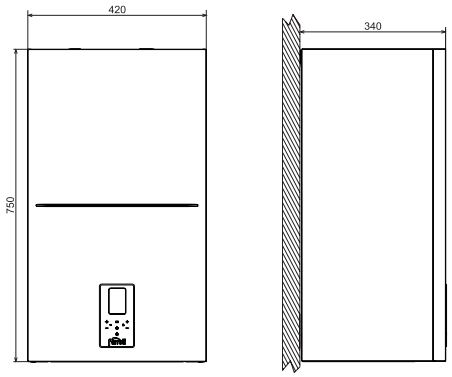
WATER SCHEME



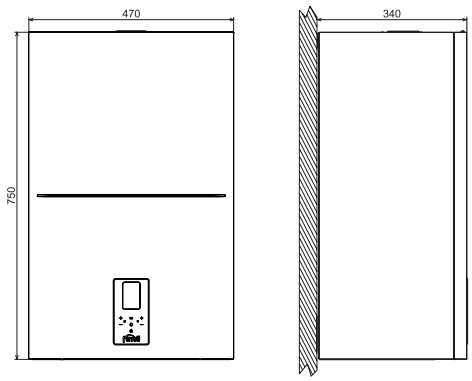


MODEL			C 24	C 32	F 24	F 32	F 37
Heating capacity	Max	kW	25.8	34.4	25.8	34.4	39.7
	Min	kW	8.3	11.5	8.3	11.5	14.0
Heat output in heating	Max	kW	23.5	31.3	24.0	32.0	37.0
	Min	kW	7.0	9.7	7.2	9.9	12.9
Heat output in hot water production	Max	kW	23.5	31.3	24.0	32.0	37.0
	Min	kW	7.0	9.7	7.2	9.9	12.9
Efficiency Pmax (80-60°C)		%	91.2	91.2	92.9	93.1	93.2
Efficiency 30%		%	89.8	89.8	90.5	91	91
NOx emission class		-	3	3	3	3	3
Working pressure in heating	Max / Min	bar	3 / 0.8	3 / 0.8	3 / 0.8	3 / 0.8	3 / 0.8
Max heating temperature		°C	90	90	90	90	90
Heating water content		litres	0.8	1.2	1	1.2	1.5
Heating expansion tank capacity / prefilling pressure		litres / bar	8 / 1	8 / 1	8 / 1	10 / 1	10 / 1
Working pressure in hot water production	Max / Min	bar	9 / 0.3	9 / 0.3	9 / 0.3	9 / 0.3	9 / 0.3
DHW flow rate	Δt 25°C	l/min	13.5	17.9	13.8	18.3	21.1
	Δt 30°C	l/min	11.2	14.9	11.5	15.3	17.6
Protection rating		IP	X4D	X4D	X4D	X4D	X4D
Electrical power input		W	80	90	110	135	135
Electrical power input in hot water production		W	80	90	110	135	135
Empty weight		Kg	27	30	32	35	37
CODE	**NAT GAS LPG**		**0DTC4YYA 0DTC4LYA**	**0DTC7YYA 0DTC7LYA**	**0DTF4YYA 0DTF4LYA**	**0DTF7YYA 0DTF7LYA**	**0DTF8YYA 0DTF8LYA**

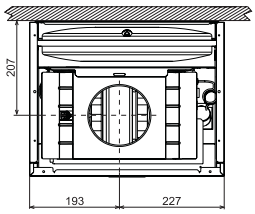
DIVATOP D MOD. C 24 / C 32 / F 24 / F 32



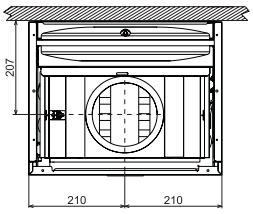
DIVATOP D MOD. F 37

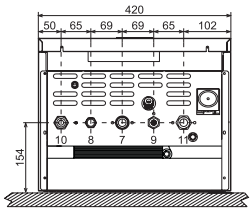


MOD. C 24



MOD. C 32

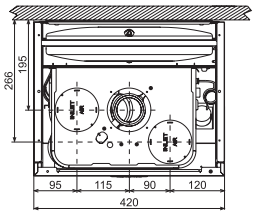




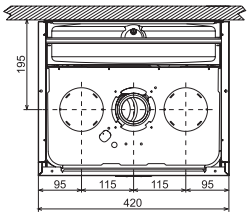
> KEY

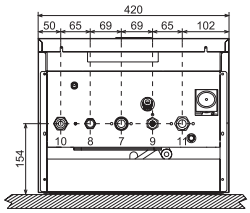
7 3/4" gas inlet
8 1/2" domestic hot water outlet
9 1/2" domestic hot water inlet
10 3/4" system delivery
11 3/4" system return
209 Hot water tank delivery - Ø 3/4"
210 Hot water tank return

MOD. F 24

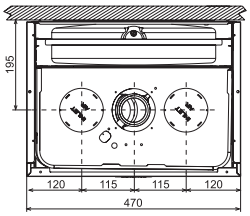


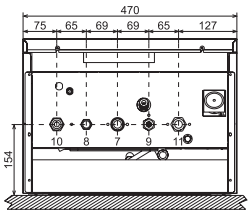
MOD. F 32





MOD. F 37





> HYDRAULIC AND CONTROL ACCESSORIES

	DESCRIPTION	CODE
	universal kit for replacement of wall-hung boilers	012025X0
	electric heating elements kit for auxiliary antifrost down to -15°C	013009X0
	Concentric kit 01007X0 + 1KWMA56A (made by: 90°bend, 1mt terminal pipe, Ø 60/100 mm)	010012X0
	kit for connection of fittings complete with gas tap with cone, DHW tap, pipes, nipple, gaskets	012048W0
	kit for connection of 5 pipe fittings nb: the kit does not include taps and connection nipples	012049W0

	DESCRIPTION	CODE
	outdoor probe	013018X0
	thermostatic mixer kit 1/2" connections	013002X0
	Vertical concentric connection, Ø 60/100 mm, external PVC internal aluminium	010006X0
	90° flanged concentric bend - 360° adjustable by 45° steps - Ø 60/100 mm, external PVC internal aluminium	010007X0
	Vertical concentric connection, Ø 80/125 mm, with test point, aluminium	010018X0
	attachment kit separate pipes ø 80/80 mm	010011X0

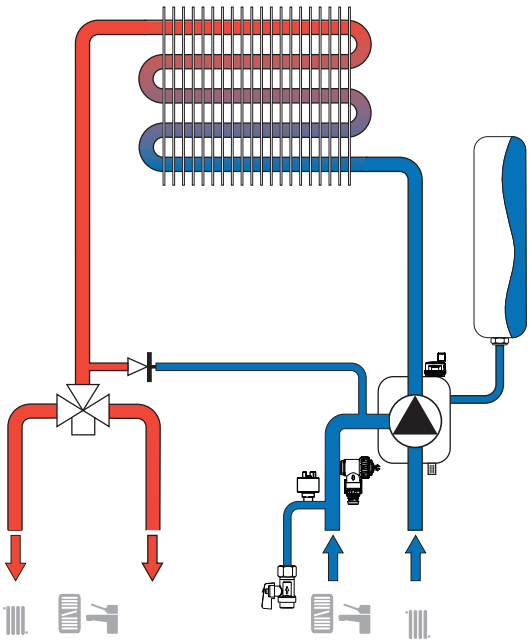
DIVATOP D HF

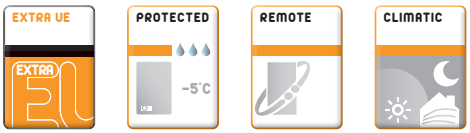
HEATING ONLY
WALL-MOUNTED BOILERS



- **Primary heat** exchanger with compact geometry **made entirely of copper**
- New user interface with **«capsense» technology**, without mechanical keys and provided with **2.8'' graphical display**, allows the user to conveniently and simply interact with the product
- **Circulator with 3 levels** di flow rate/head pressure with **anti-blocking system** that is activated for a few seconds every 24 hours of inactivity
- New **hydraulic group specifically designed** to allow **quick and easy maintenance** by the installer
- **Diverting valve** to manage an optional DHW tank
- Sliding temperature **operating mode** through external probe (optional)
- Can be combined with the **modulating remote control timer** (optional)
- Modulating **thermal flow** during both heating and production of DWH, managed by a microprocessor **electronic card**

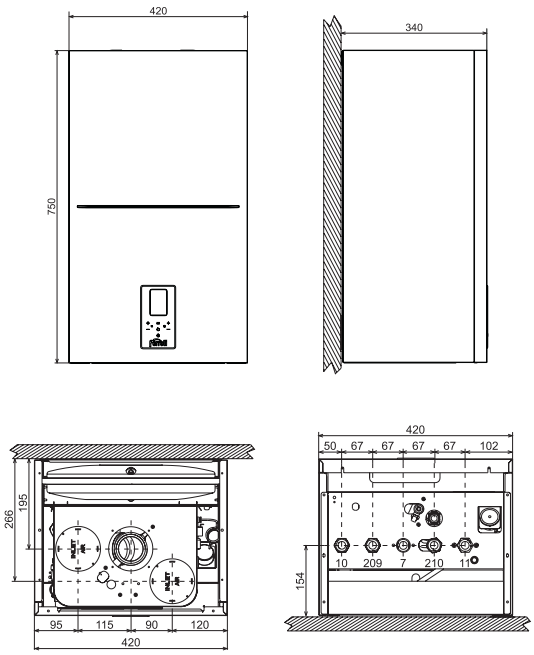
WATER SCHEME



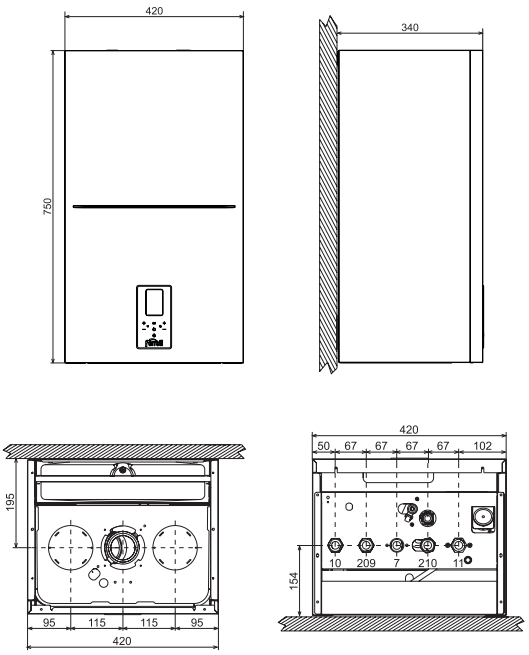


MODEL			H F 24	H F 32
Heating capacity	Max	kW	25.8	34.4
	Min	kW	8.3	11.5
Heat output in heating	Max	kW	24.0	32.0
	Min	kW	7.2	9.9
Heat output in hot water production	Max	kW	-	-
	Min	kW	-	-
Efficiency Pmax (80-60°C)		%	93	93.1
Efficiency 30%		%	90.5	91
NOx emission class		-	3	3
Working pressure in heating	Max / Min	bar	3 / 0.8	3 / 0.8
Max heating temperature		°C	90	90
Heating water content		litres	0.7	1.1
Heating expansion tank capacity / prefilling pressure		litres / bar	8 / 1	10 / 1
Working pressure in hot water production	Max / Min	bar	-	-
DHW flow rate	Δt 25°C	l/min	-	-
	Δt 30°C	l/min	-	-
Protection rating		IP	X4D	X4D
Electrical power input		W	110	135
Electrical power input in hot water production		W	-	-
Empty weight		Kg	32	35
CODE	**NAT GAS**		**0DT04ZYA**	**0DT07ZYA**

DIVATOP D MOD. HF 24



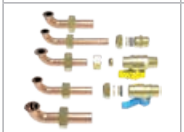
DIVATOP D MOD. HF 32



> KEY

7 3/4" gas inlet
8 1/2" domestic hot water outlet
9 1/2" domestic hot water inlet
10 3/4" system delivery
11 3/4" system return
209 Hot water tank delivery - Ø 3/4"
210 Hot water tank return

> HYDRAULIC AND CONTROL ACCESSORIES

	DESCRIPTION	CODE
	galvanised template	016074X0
	universal kit for replacement of wall-hung boilers	012025X0
	electric heating elements kit for auxiliary antifrost down to -15°C	013009X0
	Concentric kit 01007X0 + 1KWMA56A (made by: 90°bend, 1mt terminal pipe, Ø 60/100 mm)	010012X0
	kit for connection of fittings complete with gas tap with cone, DHW tap, pipes, nipple, gaskets	012048W0
	kit for connection of 5 pipe fittings nb: the kit does not include taps and connection nipples	012049W0

	DESCRIPTION		CODE
	outdoor probe		013018X0
	thermostatic mixer kit 1/2" connections		013002X0
	Vertical concentric connection, Ø 60/100 mm, external PVC internal aluminium		010006X0
	90° flanged concentric bend - 360° adjustable by 45° steps - Ø 60/100 mm, external PVC internal aluminium		010007X0
	Vertical concentric connection, Ø 80/125 mm, with test point, aluminium		010018X0
	attachment kit separate pipes ø 80/80 mm		010011X0
	additional sensor for managing any external storage tank	cable 2 m	1KWMA11W
		cable 5 m	043005X0

DIVA D

INSTANTANEOUS WALL-MOUNTED BOILERS WITH DOUBLE EXCHANGER AND PRESET FOR SYSTEM SOLAR



> STRENGTHS:

- **Primary heat exchanger with compact geometry made** entirely of copper
- **Instantaneous production** of domestic hot water **with dedicated plates exchanger**
- Simple and complete revamped **control panel**, user interface with display and setting keys
- **Circulator** with 3 levels di flow rate/head pressure with anti-blocking system that is activated for a few seconds every 24 hours of inactivity
- **New hydraulic group** specifically designed to allow quick and easy maintenance by the installer
- The **domestic water inlet filter** can be easily extracted from the inside without having to remove the hydraulic connections of the boiler
- **Compact size and contained weight**
- **Sliding temperature** operating mode through external probe (optional)
- Can be combined with the **modulating remote control timer** (optional)

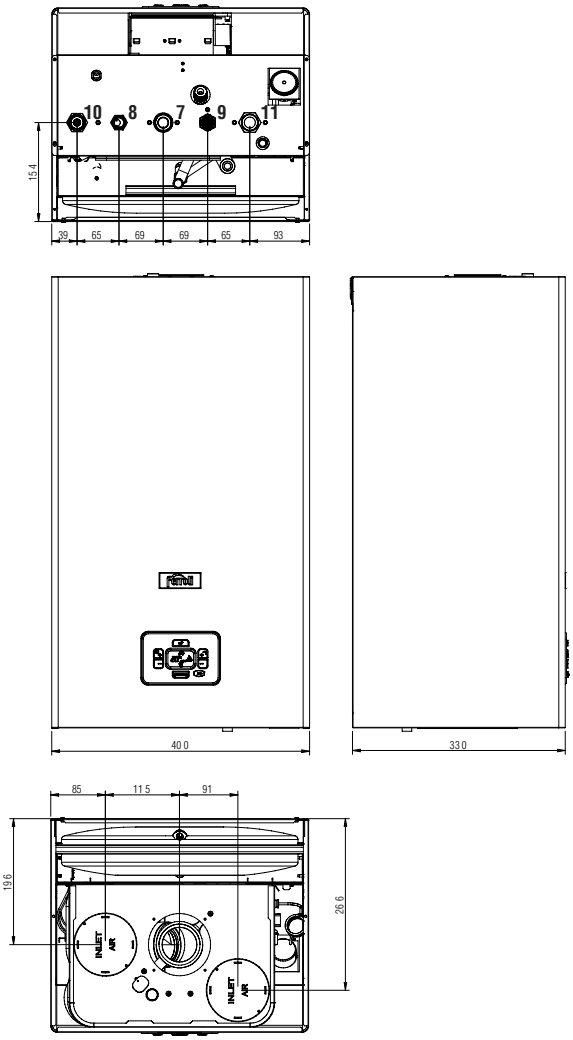
> ADVANTAGES OF DIVA D:

- **Modulating heat input** during both heating and production of DHW, managed by a microprocessor electronic card
- **ECO/COMFORT system** for fast production of DHW
- **Solar system set up**: set up for the production of domestic hot water combined with solar panel systems (SUN EASY)

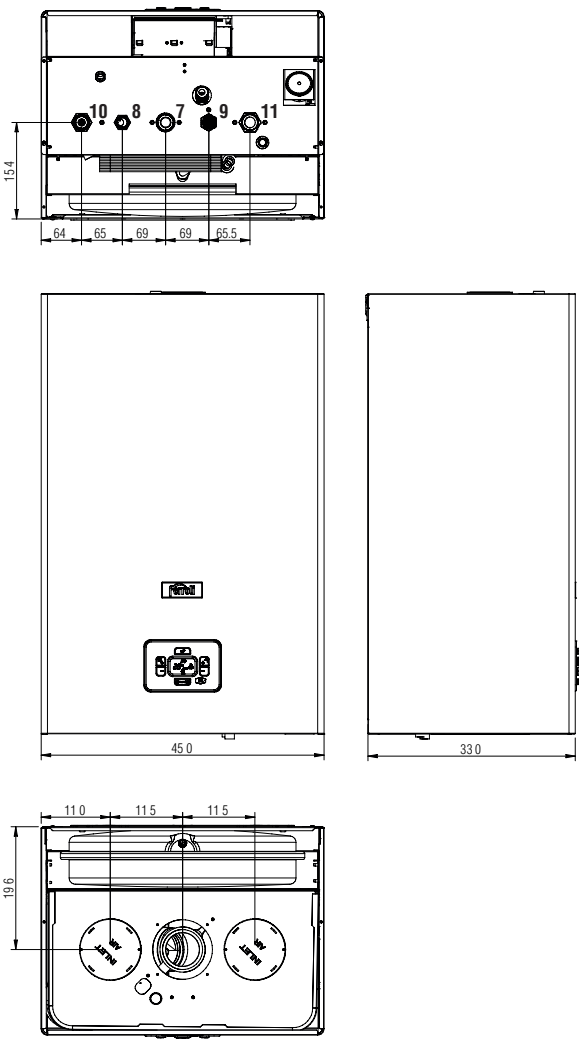


DIVA D			F 24	F 32	F 37
Heating capacity	Max Min	kW kW	25.8 8.3	34.4 11.5	39.7 14.0
Heat output in heating	Max Min	kW kW	24.0 7.2	32.0 9.9	37.0 12.9
Heat output in hot water production	Max Min	kW kW	24.0 7.2	32.0 9.9	37.0 12.9
Efficiency Pmax (80-60°C)		%	92.9	93.1	93.2
Efficiency 30%		%	90.5	91.0	91.0
NOx emission class		-	3	3	3
Working pressure in heating	Max Min	bar bar	3 0.8	3 0.8	3 0.8
Max heating temperature		°C	90	90	90
Heating water content		litres	1.0	1.2	1.5
Heating expansion tank capacity		litres	8	10	10
Heating expansion tank prefilling pressure		bar	1	1	1
Working pressure in hot water production	Max Min	bar bar	9 0.3	9 0.3	9 0.3
DHW flow rate	Δt 25°C Δt 30°C	l/min l/min	13.8 11.5	18.3 15.3	21.1 17.6
Protection rating		IP	X4D	X4D	X4D
Electrical power input		W	110	135	135
Electrical power input in hot water production		W	110	135	135
Empty weight		Kg	32	35	37
No. of pieces/pallet		**no.**	**12**	**12**	**12**
CODE		**NAT. GAS**	**0DAF4AYA**	**0DAF7AYA**	**0DAF8AYA**

DIVA D F 24



DIVA D F 32 / 37



> KEY

7 ø 3/4" gas inlet
8 ø 1/2" DHW water outlet
9 ø 1/2" DHW water inlet
10 heating system flow ø 3/4"
11 ø 3/4" heating system return

> HYDRAULIC AND CONTROL ACCESSORIES

	DESCRIPTION	CODE
	kit for connection of fittings complete with gas tap with cone, DHW tap, pipes, nipple, gaskets	012048W0
	kit for connection of 5 pipe fittings nb: the kit does not include taps and connection nipples	012049W0

	DESCRIPTION	CODE
	outdoor probe	013018X0
	thermostatic mixer kit 1/2" connections	013002X0

FORTUNA

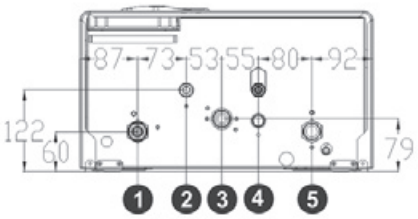
INSTANT COMBI
WALL HUNG GAS BOILER

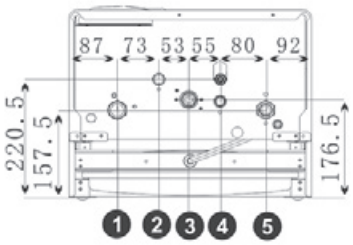


EXTRA UE

> STRENGTHS:

- Traditional wall-hung boiler, Instant combi via double exchanger
- Electronic display with buttons and front pressure gauge
- Forced flue. Open flue available
- Large availability of models, themal capacities from 10 to 40 kW
- Main functions:
  * Anti-seize routine for pump
  * 2 levels frost protection
  * Power ignition regulation
  * Protection heating slope
  * IP protection IPX5D





> KEY

1 G3/4" CH water inlet
2 G1/2" DHW outlet
3 G1/2" - (DC) 3/4" Gas inlet (AC)
4 G1/2" Tap water inlet
5 G3/4" CH water return

MODEL		10 kW		13 kW		16 kW		18 kW		20 kW		24 kW		30 kW		32 kW		35 kW		40 kW	
Power		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
Rated heat input	kW	12.3	9.2	15.3	9.2	18.4	9.2	20.0	9.2	22.3	9.2	26.3	9.2	32.6	12.8	34.7	12.8	38.1	13.3	44.1	14.3
Rated heat output 80°C-60°C	kW	10.0	8.3	13.0	8.3	16.0	8.3	18.0	8.3	20.0	8.3	24.0	8.3	30.0	11.9	32.0	11.9	35.0	12.2	40.0	13.0
Rated heat input of sanitary hot water	kW	26.3	9.2	26.3	9.2	26.3	9.2	26.3	9.2	26.3	9.2	26.3	9.2	32.6	12.8	34.7	12.8	38.1	13.3	44.1	14.3
Rated heat output of sanitary hot water	kW	24.0	8.3	24.0	8.3	24.0	8.3	24.0	8.3	24.0	8.3	24.0	8.3	30.0	11.9	32.0	11.9	35.0	12.2	40.0	13.0
Efficiency Pmax (80–60°C)	%	89		89		89		89		89		89		89		89		89		89	
Efficiency Pmin (30%Pmax)	%	85		85		85		85		85		85		85		85		85		85	
Natural gas nozzle (G20)	mm	12x1.28		12x1.28		12x1.28		12x1.28		12x1.28		12x1.28		15x1.30		15x1.30		18x1.30		21x1.30	
Natural gas supply pressure (G20)	Pa	2000		2000		2000		2000		2000		2000		2000		2000		2000		2000	
Pressure at the burner (gas G20)	mbar	3.1	1.5	4.3	1.5	6.0	1.5	7.0	1.5	9.0	1.5	12.0	1.5	12.5	1.0	13.5	1.0	12.0	1.0	11.0	1.0
LPG nozzle (G30)	mm	12x0.79		12x0.79		12x0.79		12x0.79		12x0.79		12x0.79		15x0.82		15x0.82		18x0.82		21x0.82	
LPG supply pressure (G30)	Pa	2800		2800		2800		2800		2800		2800		2800		2800		2800		2800	
Pressure at the burner (gas G30)	mbar	4.5	2.5	8.0	2.5	11.0	2.5	13.5	2.5	16.0	2.5	21.0	2.5	20.0	2.5	21.0	2.5	20.0	2.5	20.0	2.5
Max working temperature	°C	90		90		90		90		90		90		90		90		90		90	
Max working pressure	MPa	0.3		0.3		0.3		0.3		0.3		0.3		0.3		0.3		0.3		0.3	
Safety valve release pressure	MPa	0.3		0.3		0.3		0.3		0.3		0.3		0.3		0.3		0.3		0.3	
Min heating pressure	MPa	0.08		0.08		0.08		0.08		0.08		0.08		0.08		0.08		0.08		0.08	
Volume of expansion water tank	l	6		6		6		6		6		6		8		8		8		10	
Initial pressure of expansion water tank	MPa	0.1		0.1		0.1		0.1		0.1		0.1		0.1		0.1		0.1		0.1	
Volume of wall-hung boiler	l	1.0		1.0		1.0		1.0		1.0		1.0		1.2		1.2		1.2		1.5	
Max. hot water production rate Δt=25k)	kg/min	13.6		13.6		13.6		13.6		13.6		13.6		16.2		17.2		18.4		20.6	
Max hot water production rate (Δt=30k)	kg/min	11.3		11.3		11.3		11.3		11.3		11.3		12.3		14.3		15.5		17.6	
Max working pressure of hot water	MPa	0.8		0.8		0.8		0.8		0.8		0.8		0.8		0.8		0.8		0.8	
Min working pressure of hot water	MPa	0.025		0.025		0.025		0.025		0.025		0.025		0.025		0.025		0.025		0.025	
Sanitary hot water volume	l	0.40		0.40		0.40		0.40		0.40		0.40		0.50		0.50		0.60		0.80	
Max system performance DHW	l/min	12		12		12		12		12		12		14		14		16		18	
Height / Width	mm	740 / 440		740 / 440		740 / 440		740 / 440		740 / 440		740 / 440		740 / 440		740 / 440		740 / 440		740 / 500	
Depth	mm	235		235		235		235		235		235		340		340		340		340	
Net weight	kg	28.8		28.8		28.8		28.8		28.8		28.8		36.7		36.7		37.5		40.3	
Gas supply joint	inches	1/2"		1/2"		1/2"		1/2"		1/2"		1/2"		1/2"		1/2"		1/2"		1/2"	
Heating pipe joint	inches	3/4"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"	
Sanitary hot water joint	inches	1/2"		1/2"		1/2"		1/2"		1/2"		1/2"		1/2"		1/2"		1/2"		1/2"	
Max electric power	W	110		110		110		110		110		110		110		110		110		110	
Voltage/frequency	V/Hz	230/50		230/50		230/50		230/50		230/50		230/50		230/50		230/50		230/50		230/50	
Protection class	IP	X5D		X5D		X5D		X5D		X5D		X5D		X5D		X5D		X5D		X5D	

FLUES CHIMNEY ACCESSORIES CONDENSING GAS BOILERS

1KWMA56W



1 mt Concentric terminal pipe, Ø 60/100 mm, external PVC, internal PPs.
Includes wall gasket.

1KWMA58W



1 mt Concentric terminal pipe, Ø 80/125 mm, external PVC, internal PPs.
Includes wall gasket.

1KWMA57W



1 mt M-F concentric extension, Ø 60/100 mm, external PVC, internal PPs

1KWMA59W



1 mt M-F concentric extension, Ø 80/125 mm, external PVC, internal PPs

041051X0



90° M-F concentric bend, Ø 60/100 mm, PPs

1KWMA73W



90° M-F concentric bend, Ø 80/125 mm, external aluminium, internal PPs

1KWMA83W



1 mt M-F pipe, Ø 80 mm, PPs

1KWMA01W



90° M-F bend, Ø 80 mm, PPs

1KWMA64W



45° M-F concentric bend, Ø 60/100 mm, external PVC, internal PPs

1KWMA72W



45° M-F concentric bend, Ø 80/125 mm, external PVC, internal PPs

1KWMA88W



90° M-F bend, Ø 60 mm, PPs

1KWMA65W



45° M-F bend, Ø 80 mm, PPs

1KWMA70W



Flue or air test point Ø 80 mm (M-F) PPs

041000X0



90° M-F bend, Ø 80 mm, PPs, with test point

041049X0



Concentric roof terminal, Ø 60/100 mm, external PVC, internal PPs (*)

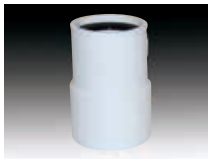
010036X0



Concentric roof terminal, Ø 80/125 mm, external PVC, internal PPs (*)

FLUES CHIMNEY ACCESSORIES CONDENSING GAS BOILERS

041050X0



M-F reduction,
ø 80/60 mm

1KWMA89W



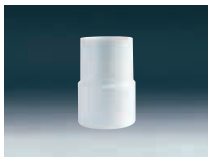
1m M-F pipe,
ø 60 mm

041085X0



90° M-F bend,
ø 50 mm

041087X0



Reduction,
ø 80/50 mm

041086X0



1m extension,
ø 50 mm

1KWMA81U



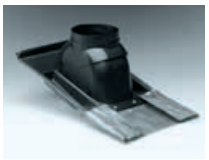
Roof tile for flat roofs, PVC Ø 132 mm

1KWMA86U



Roof reduction from Ø 125 mm to Ø 80 mm, PVC
(For adaption of code 010026X to evacuation chimney only thus closing air inlet)

1KWMA82U



Roof tile for sloping roofs, PVC and lead moldable support Ø 132 mm

* INCLUDES Ø 132 MM COLLAR (ADJUSTABLE IN HEIGHT) FOR CONNECTION TO FERROLI'S ROOF TILES.
ACCESSORIES VALID FOR ROOM SEALED MODELS ONLY





FLUES CHIMNEY ACCESSORIES
TRADITIONAL GAS BOILERS AND WATER HEATERS

010012X0



Concentric kit 01007X0 + 1KWMA56A
(made by: 90°bend, 1mt terminal pipe, Ø 60/100 mm)

1KWMA56A



1 mt concentric terminal pipe, Ø 60/100 mm, external PVC, internal aluminium.
Includes wall gasket.

1KWMA66A



1 mt concentric terminal pipe, Ø 60/100 mm, aluminium. Includes wall gasket.

1KWMR56A



1 MT concentric terminal pipe, Ø 80/125 mm, aluminium

1KWMA56U



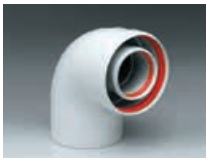
1 mt M-F concentric extension, Ø 60/100 mm, external PVC, internal aluminium

1KWMR56U



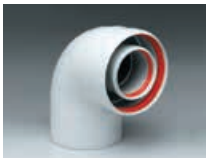
1 mt M-F concentric extension, Ø 80/125 mm, external PVC, internal aluminium

1KWMA81W



90° M-F concentric bend, Ø 60/100 mm, external PVC, internal aluminium

010002X0



90° M-F concentric bend, Ø 80/125 mm, external PVC, internal aluminium

1KWMA31W



45° M-F concentric bend, Ø 60/100 mm, external PVC, internal aluminium

1KWMA72K



45° M-F concentric bend, Ø 80/125 mm, aluminium

1KWMA08K



1 mt M-F pipe, Ø 100 mm, aluminium

1KWMA38A



0,5 mt M-F pipe, Ø 80 mm, aluminium

1KWMA70U



90° M-F bend, Ø 80 mm, aluminium, with test point

1KWMA82A



90° M-F bend, Ø 80 mm, aluminium

1KWMA04K



90° M-F bend, Ø 100 mm, aluminium

FLUES CHIMNEY ACCESSORIES
TRADITIONAL GAS BOILERS AND WATER HEATERS

1KWMA65A



45° M-F bend, Ø 80 mm, aluminium

1KWMA03K



45° M-F bend, Ø 100 mm, aluminium

1KWMA02K



90° F-F bend, Ø 80 mm, aluminium

1KWMA01K



45° F-F bend, Ø 80 mm, aluminium

1KWMA19K



Reduction nipple for flexible pipe, Ø 72/79 mm, stainless steel AISI 316 L

1KWMA16U



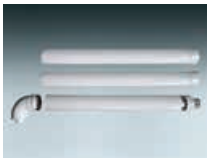
Vertical connection, Ø 80 mm, aluminium, with test point

1KWMA03U



M-F reduction, Ø 80-100 mm, aluminium

ZB90160540



Flue kit (90° bend and 1 mt pipe) for FORTUNA series

FLUES CHIMNEY ACCESSORIES UNIVERSAL USE

Accessories valid for room sealed models only

1KWMA84A



Wall gasket, Ø 80 mm, silicon

1KWMR11A



Wall gasket, Ø 100 mm, silicon

1KWMA91A



Wall gasket, Ø 60 mm, silicon

1KWMR09A



Wall gasket, Ø 125 mm, silicon

1KWMA85A



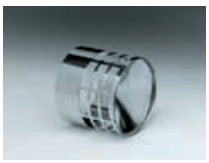
Air terminal, Ø 80mm, stainless steel

1KWMA14K



Air terminal Ø 100 mm, stainless steel

1KWMA86A



Flue terminal, Ø 80 mm, stainless steel

1KWMA29K



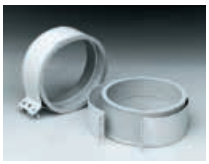
Flue terminal Ø 100 mm, stainless steel

1KWMA90A



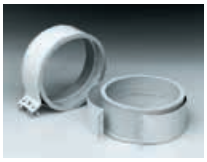
Flue terminal, Ø 60 mm, stainless steel

1KWMA07U



Connection joint, Ø 80 mm, steel

1KWMA08U



Connection joint, Ø 100 mm, steel

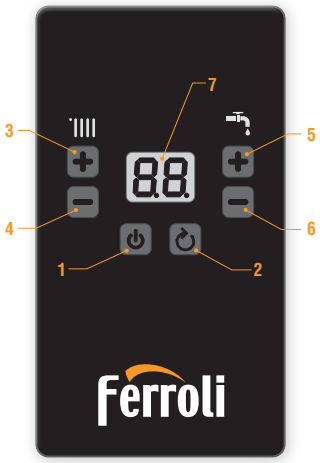
TOR

WALL-HUNG ELECTRIC BOILER
HEATING ONLY



- Power range: from 6 kW to 24 kW
- Pose keys to adjust and set the parameters
- Anti-freezing function
- Operating the water pump based on anti-sticking function
- Multiple security protection
- High-efficiency and energy-saving water pump
- High-strength wires and connectors, resistant to high temperature and high pressure
- Precise temperature setting and control

(*) Available also without high efficiency pump, for extra EU markets.
Technical data for extra EU versions are upon request



KEY 1 Power key **2** Reset key / back **3-4** Heating temperature plus and minus **5-6** Water tank temperature plus and minus key **7** Display





TOR		6	9	12	18	24
Erp Class*		D	D	D	D	D
Single phase power supply		220-240v~/50Hz	220-240v~/50Hz	-	-	-
Three phase power supply		400v 3N~/50Hz	400v 3N~/50Hz	400v 3N~/50Hz	400v 3N~/50Hz	400v 3N~/50Hz
Max current (single phase)	A	26.1	39.1	-	-	-
Max current for each single phase (three-phase)	A	8.7	13.1	17.4	26.1	34.8
Input power	kW	6	9	12	18	24
Heating water operating temperature, max	°C	80	80	80	80	80
Expansion vessel	lt	6	6	6	6	6
Boiler working pressure, min / max	bar	0.8 / 3.0	0.8 / 3.0	0.8 / 3.0	0.8 / 3.0	0.8 / 3.0
Boiler working pressure, recommended	bar	1.0 ÷ 1.7	1.0 ÷ 1.7	1.0 ÷ 1.7	1.0 ÷ 1.7	1.0 ÷ 1.7
Electrical protection class		IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
Heating water joint		G 3/4"	G 3/4"	G 3/4"	G 3/4"	G 3/4"
Water replenishing joint		G 1/2"	G 1/2"	G 1/2"	G 1/2"	G 1/2"
Size: H × W × D	mm	700 × 420 × 250	700 × 420 × 250	700 × 420 × 250	700 × 420 × 250	700 × 420 × 250
Weight (when no water exists)	Kg	27	27	27	30	30
EU CODE		**GCJO10EA**	**GCMO10EA**	**GCJO20EA**	**GCJO40EA**	**GCJO60EA**
EXTRA EU CODE		**-**	**GCMO100A**	**GCJO200A**	**GCJO400A**	**GCJO600A**

COMMERCIAL BOILERS

CONDENSING
TRADITIONAL

MODULO RRT H

THERMAL MODULES IN BATTERY FOR MEDIUM POWER STATIONS



THERMO BALANCE

Thermal unit composed by a cascade of two boiler of the series BLUEHELIX HITECH RRT H MODULO RRT H is composed by:

- 2 condensing wall hung boilers, BLUEHELIX HITECH RRT H, for heating only model, equipped as standard with a diverter valve for possible connection to an external boiler for domestic hot water
- Reversable (dx/sx) hydraulic, gas and condensate manifold
- Safety accessories kit
- Frame for supporting the hydraulic and gas manifold kit
- Reversible flue gas manifold for left and right outlets complete with connection pipes to the boilers without the need for further adapter kits
- Thermoregulation system and cascade manager unit THETA+ series

H2 HYDROGEN PLUG-IN

EASY MAINTENANCE | METHANE LPG READY | CLIMATIC | COLLECTIVE PRESSURISED | MULTI COMB. CONTROL | ETAs 94% | EXCHANGER STAINLESS STEEL | PROTECTED -5°C -15°C | REMOTE

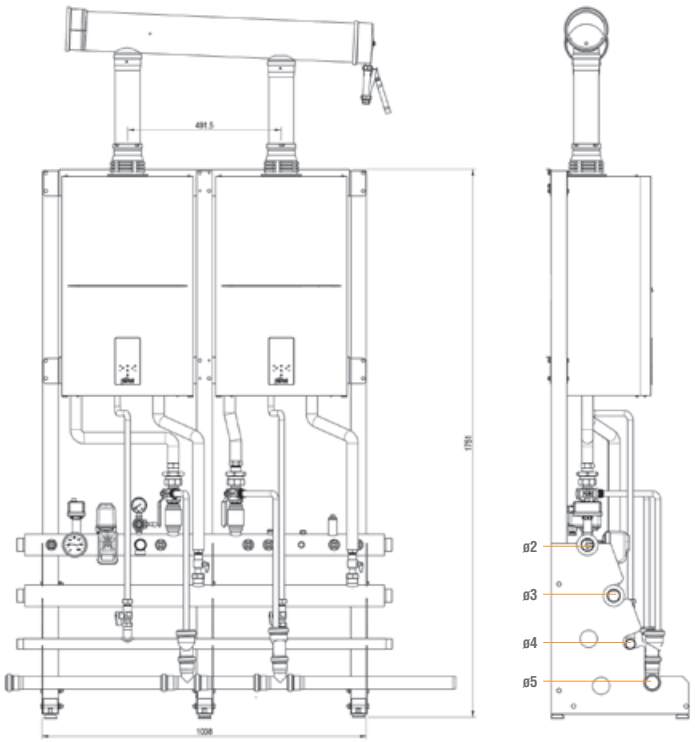
BLUEHELIX HITECH RRT		28 H + 28 H	34 H + 34 H	45 H + 45 H
ERP Class		A	A	A
Heat input max / min	kW	57,0 / 3,5	69,4 / 3,5	87,8 / 6,4
Heat output max / min 80°C-60°C	kW	55,8 / 3,4	64,0 / 3,4	85,8 / 6,3
Heat output max / min 50°C-30°C	kW	60,4 / 3,8	73,6 / 3,8	93,0 / 6,9
Efficency Pmax / Pmin 80-60°C	%	97,8 / 98,0	97,8 / 98,0	97,8 / 98,0
Efficiency Pmax / Pmin 50-30°C	%	106,1 / 107,6	106,1 / 107,6	106,1 / 107,6
Efficency reduced load 30%	%	109,5	109,5	109,5
NOx Class	-	6	6	6
Operating pressure	bar	3 / 0,8	3 / 0,8	3 / 0,8

MODULO RRT H

INSTALLATION INSTRUCTIONS



- For the correct operating of the system it's strongly recommended to install a separated element between the generator and the system
- In case of installations with direct flue gas outlet, the manifold kits must be replaced with other kits and relative start accessories (coaxial or split type)
- The hydraulic kit is supplied complete of safety accessories: Pressure switch / Minimum pressure switch / Safety thermostat / Thermometer / Manometer



> **KEY** **ø1** Flue gas monifold exit ø 125 mm **ø2** Heating system flow ø 1 1/4" **ø3** Heating system return ø 1 1/4" **ø4** Gas supply ø 1" **ø5** Condensate manifold

ACCESSORIES REQUIRED FOR INSTALLATION IN A BATTERY (AS SHOWN IN THE FIGURE)

BATTERY	A			B	C	D
	BLUEHELIX HITECH RRT 28 H	BLUEHELIX HITECH RRT 34 H	BLUEHELIX HITECH RRT 45 H	Frame kit MODULO RRT H	Hydraulic and gas manifold kit MODULO RRT H	Flue gas manifold kit MODULO RRT H
						
	0T4D4AWA	0T4D7AWA	0T4D9AWA	042092X0	042087X0	041113X0
	nr.	nr.	nr.	nr.	nr.	nr.
28 H + 28 H	2			1	1	1
34 H + 34 H		2		1	1	1
45 H + 45 H			2	1	1	1

ACCESSORIES ON REQUEST FOR CONFIGURATION ACCORDING TO THE SPECIFICATIONS OF THE PROJECT

	DESCRIPTION	CODE
	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensing boilers	041084X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensing boilers	041006X0

	DESCRIPTION	CODE
	coupling for vertical coaxial pipe ø 100/60 mm for condensing boilers	041083X0
	discharge kit - twin pipes 80/80 for condensing boilers complete with test point	041082X0
	auxiliary antifrost kit down to -15°C	013022X0

FORCE W

HIGH POWER CONDENSING MODULES FOR CASCADE INSTALLATION



> STRENGTHS:

- **High power condensing thermal module**, designed for single installations or in sequence **up to 600 kW**
- Hydraulic, gas and flue gas accessories **for cascade installation**, with 2, 3 and 4 modules
- Pre-assembled **heat exchanger with elements in aluminum-silicon** alloy engineered for the maximum efficiency and minimum pressure drops on the water circuit
- **Total pre-mixing unit**, for a micro-flame combustion with very low polluting emissions (Class 6 according to EN 15502-1). The metal micro-fiber burner can run on Natural gas or LPG
- Generator protection systems:
  * **Double sensor** (delivery and return) **system to operate at constant ΔT**
  * **Exchanger overtemperature protection** sensor calibrated to 95°C
  * Flue gas safety sensor
  * Water pressure switch with minimum limit of 0,8 bar
- Hydraulic unit (supplied as accessory) with three-way valve for discharge into the atmosphere and a no-return valve. It's possible choosing between two circulators, standard and high head
- Sealed room air/flue gas circuit and check valve on the flue gas ejection duct to design the pressurised manifold

> ADVANTAGES OF FORCE W:

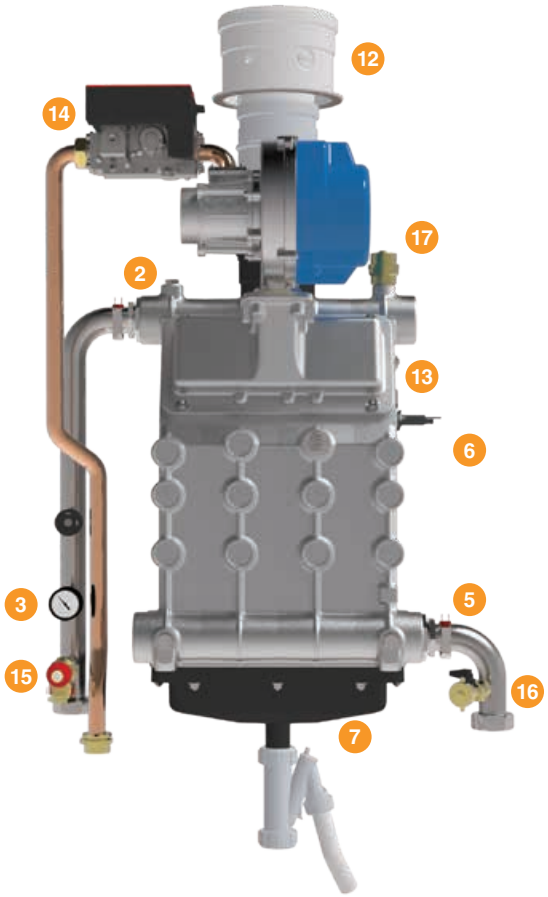
- **Master / Slave cascade** management with self-configuration system and possibility of setting the on/off sequence of the single generator.
- The electronic control on board is design to manage a double system zone and one DHW storage. In combination with the regulator FZ4 B the boiler can manage different temperature zone (direct and mixed)
- **Range Rated certified** generator to adjust the generated power to the system's needs by increasing the efficiency of the system and preserving the mechanics of the machine.
- The modules can be **controlled and conducted remotely:**
  * Power or temperature adjustment with **0 - 10V signal**
  * Blocking alarm signal for safety and to restart operation
  * **Opentherm (OT) and Modbus** communication protocols with settable parameters

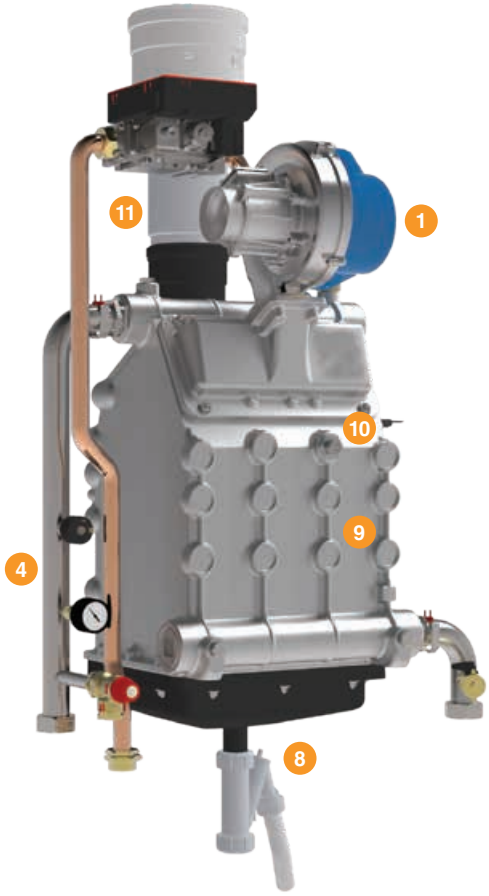


MODEL			W 60	W 80	W 99	W 120	W 150
ERP Class			A	-	-	-	-
Heating heat input	Max/Min	kW	58.0 / 15.0	74.4 / 15.0	96.6 / 19.0	113.0 / 19.0	143.0 / 24.0
Heating heat output 80°C-60°C	Max/Min	kW	57 / 14.7	72.9 / 14.7	94.7 / 18.7	110.5 / 18.7	139.8 / 23.6
Useful heating output 50°C-30°C	Max/Min	kW	60.8 / 16.3	77.0 / 16.3	100.0 / 20.5	117.0 / 20.5	148.0 / 25.9
Efficiency	80°C-60°C 50°C-30°C 30% partial load	Pmax %/Pmin % Pmax %/Pmin % Pmax %	98.3 / 98.3 104.8 / 108.5 108.6	98.0 / 98.3 103.5 / 108.5 108.6	98.0 / 98.3 103.5 / 108.0 108.1	97.8 / 98.3 103.5 / 108.0 108.1	97.8 / 98.3 103.5 / 108.0 108.1
NOx emissions class			6	6	6	6	6
NOx (O_2=0%) weighted		mg/kWh	50	54	39	38	40
CO (O_2=0%) weighted		mg/kWh	75	85	49	50	50
Heating operating pressure	Max/Min	bar	6 / 0.8	6 / 0.8	6 / 0.8	6 / 0.8	6 / 0.8
Water volume		lt	4.2	4.2	5.6	5.6	6.7
Empty weight		kg	67	67	76	76	86
No. of pieces/pallet		**Nr.**	**6**	**6**	**6**	**6**	**6**
Thermal module FORCE W			**0MDSAAWA**	**0MDSCAWA**	**0MDSDAWA**	**0MDSEAWA**	**0MDSFAWA**
System hydraulic kit			042072X0	042072X0	042072X0	042072X0	042072X0
High performance modulating pump (8 mt)			042070X0	042070X0	042070X0	042070X0	042070X0
High performance modulating pump (10 mt)			042071X0	042071X0	042071X0	042071X0	042071X0

* FORCE W modules are supply without hidraulic kit and circulator.

FORCE W COMPONENTS DESCRIPTION





1. Fan
2. C.H. flow temperature sensor
3. Manometer
4. Water pressure switch
5. C.H. return temperature sensor
6. Ignition/Ionisation electrode
7. Gas flue temperature thermostat
8. Condensate drain
9. Aluminium heat exchanger
10. Safety sensors
11. Anti return flue gas valves
12. Gas flue analisys
13. Low NOx burners
14. Flame electronic control - gas
15. Hydraulic safety valve - 6 bar
16. Boiler drain
17. Automatic air vent

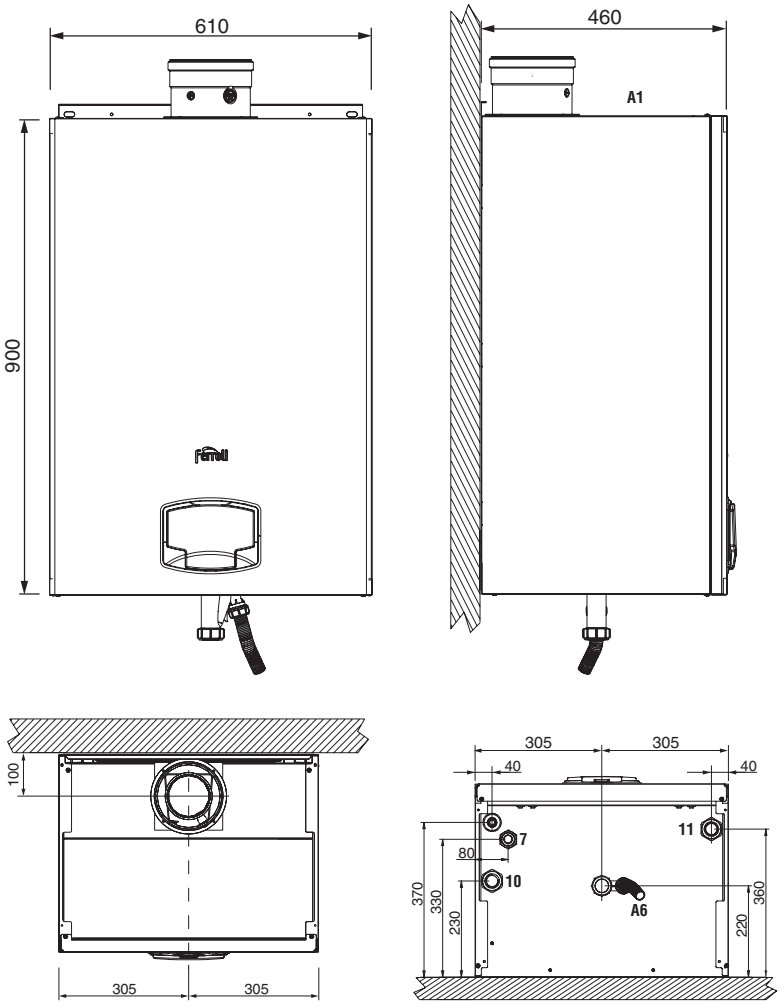
> HYDRAULIC AND CONTROL ACCESSORIES - STARTING FLUE ACCESSORIES

	DESCRIPTION		CODICE
	low-consumption modulating circulator Head 8 m		042070X0
	low-consumption modulating circulator Head 10 m		042071X0
	**system hydraulic kit:** 1 x MF 1"1/2 cock, 1 x 3-way T 1" 1/2 cock, 1 x 1" 1/2 check valve, 1 x MM		042072X0
	kit for management with thermostat (not supplied) of a dhw storage tank (for heating only boilers)		013017X0
	additional sensor for storage tank and/or system flow for cascade	cable 2 mt	1KWMA11W
		cable 5 mt	043005X0
	outdoor probe		013018X0
	ø 100 flue gas terminal		1KWMA29K
	**Temperature controls** in chapter on **SYSTEM COMPONENTS**		
	neutralisers (see chapter on condensation neutralisers for condensing boilers)		

	DESCRIPTION	CODE
	90° coaxial bend, 360° swivel with 45° pitch ø 100/150 mm	041107X0
	1 mt concentric extension Ø 100/150 mm	041108X0
	0,5 mt concentric extension Ø 100/150 mm	041109X0
	1 mt concentric horizontal terminal pipe, Ø 100/150 mm Included wall gasket Ø 150 mm	041110X0
	1 mt concentric vertical terminal pipe, Ø 100/150 mm	041111X0
	wall gasket Ø 150 mm	041112X0
	90° bend kit in pps ø 100 mm	041077X0
	1 m PPS ø 100 mm MF flue gas duct kit	041073X0

FORCE W

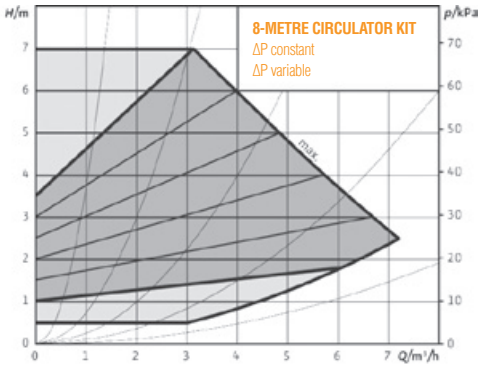
DIMENSIONS AND CONNECTIONS
HEAD FLOW RATE CURVES

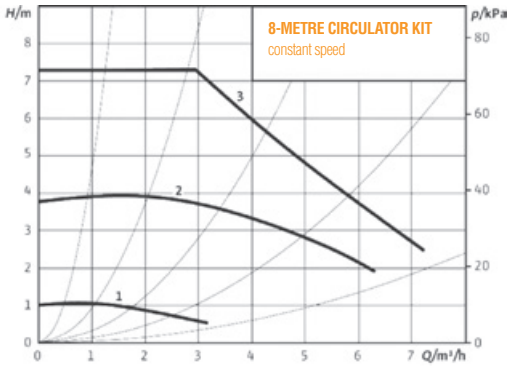


> KEY

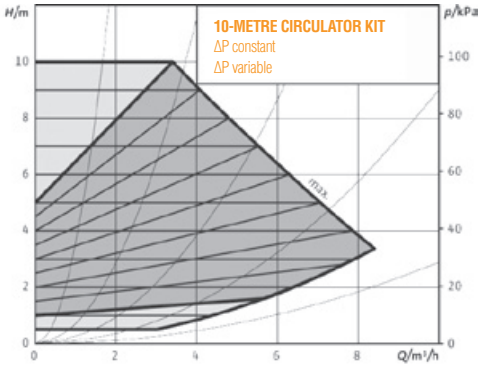
7 Ø 1" gas inlet - Male
10 Ø 1" ½ System flow - Male
11 Ø 1" ½ System return - Male
A6 Condensate discharge
A1 Flue gas outlet Ø 100/150 mm

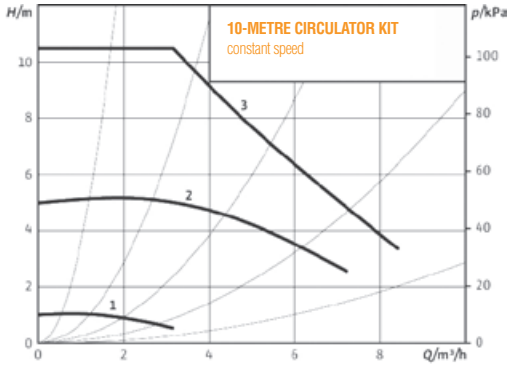
CIRCULATOR KIT 8 m





CIRCULATOR KIT 10 m





FORCE W CASCADE INSTALLATION



ACCESSORIES
NECESSARY TO CORRECTLY INSTALL FORCE W GENERATORS IN A BANK

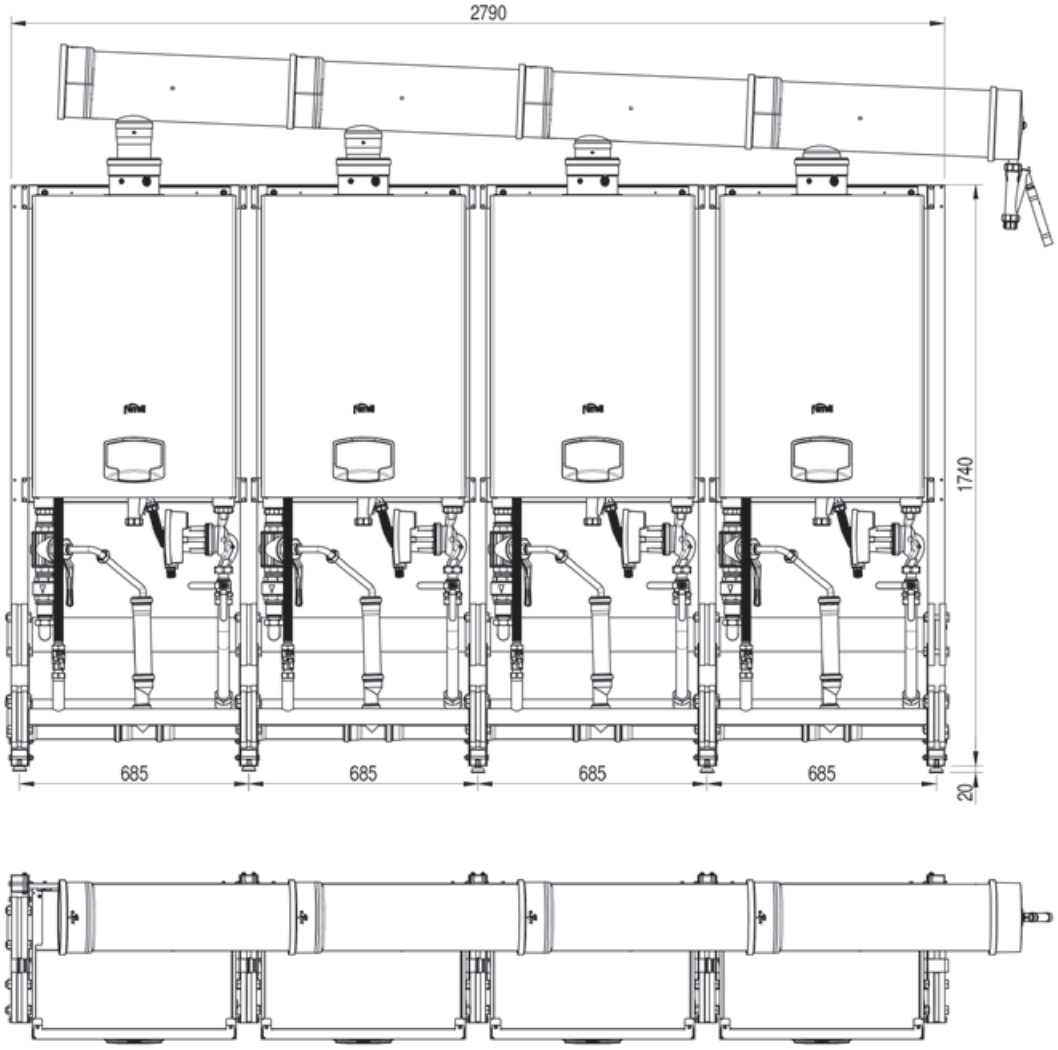
							6	7	1		2	3	4	8	9
							Self-standing frame (start) *	Self-standing frame (extension)	8-m modulating circulator	10-m modulating circulator	hydraulic kit: 1 x MF 1"1/2 cock, 1 x 3-way T 1" 1/2 cock, 1 x 1" 1/2 check valve, 1 x MM	hydraulic (DN65 delivery and return), gas (DN40) manifolds kit for bank installation	Blind flange kit DN65	Flue gas manifold starter kit (Ø 200 mm) *	Flue gas manifold extension kit (Ø 200 mm) *
P_{ac} (50/30°C)	MODULES FORCE W					Tot. modules									
	60	80	99	120	150		042076X0	042077X0	042070X0	042071X0	042072X0	042074X0	042073X0	041091X0	041092X0
62	1					1	1	-	1	1	1	1	1	-	-
77		1				1	1	-	1	1	1	1	1	-	-
98			1			1	1	-	1	1	1	1	1	-	-
117				1		1	1	-	1	1	1	1	1	-	-
148					1	1	1	-	1	1	1	1	1	-	-
124	2					2	1	1	2	2	2	2	1	1	2
139	1	1				2	1	1	2	2	2	2	1	1	2
154		2				2	1	1	2	2	2	2	1	1	2
179	1			1		2	1	1	2	2	2	2	1	1	2
194		1		1		2	1	1	2	2	2	2	1	1	2
215			1	1		2	1	1	2	2	2	2	1	1	2
234				2		2	1	1	2	2	2	2	1	1	2
265				1	1	2	1	1	2	2	2	2	1	1	2
296					2	2	1	1	2	2	2	2	1	1	2
332			1	2		3	1	2	3	3	3	3	1	1	3
351				3		3	1	2	3	3	3	3	1	1	3
373		1			2	3	1	2	3	3	3	3	1	1	3
394			1		2	3	1	2	3	3	3	3	1	1	3
413				1	2	3	1	2	3	3	3	3	1	1	3
444					3	3	1	2	3	3	3	3	1	1	3
468				4		4	1	3	4	4	4	4	1	1	4
530				2	2	4	1	3	4	4	4	4	1	1	4
561				1	3	4	1	3	4	4	4	4	1	1	4
592					4	4	1	3	4	4	4	4	1	1	4

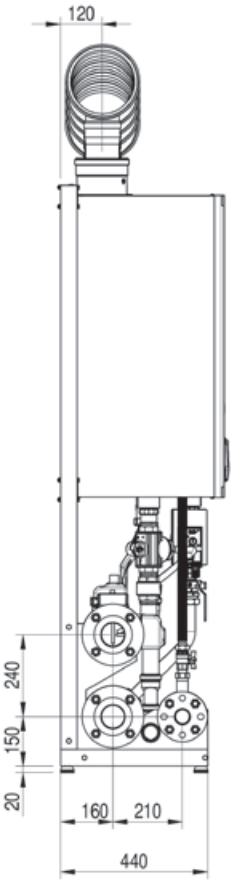
* * Flue gas accessories certified for installation in a utility room or in a protected place

ACCESSORIES
UPON REQUEST FOR CONFIGURATION ACCORDING TO PROJECT SPECIFICATIONS

	DESCRIPTION		CODE
	additional sensor for storage tank and/or system flow for cascade	cable 2 m	1KWMA11W
		cable 5 m	043005X0
	outdoor probe		013018X0
	hydraulic separator DN 32 For installation until 150 kW. The installer is responsible for the connection with the generator		042086X0
	hydraulic separator DN 65 For installation from 151 kW to 300 kW		042078X0
	installation kit for hydraulic separator. For installation from 151 kW to 300 kW		042079X0
	hydraulic separator DN 65 For installation from 301 kW to 600 kW		042080X0
	installation kit for hydraulic separator. For installation from 301 kW to 600 kW		042081X0
	**Temperature controls** in chapter on **SYSTEM CONTROL COMPONENTS**		
	neutralisers (see chapter on condensation neutralisers for condensing boilers)		

FORCE W DIMENSIONS AND CONNECTIONS





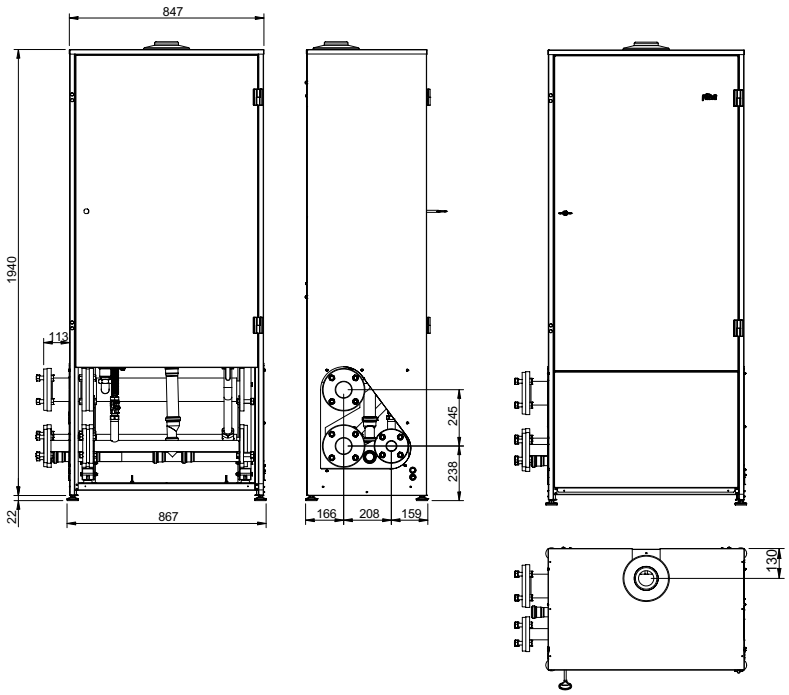
CASCADE KIT FITTINGS

- Delivery/return manifolds DN65 PN16
- Gas manifold DN40 PN16
- Condensation drain manifold Ø 40 mm
- Flue gas manifold Ø 200 mm

FORCE W OUTDOOR INSTALLATION KIT

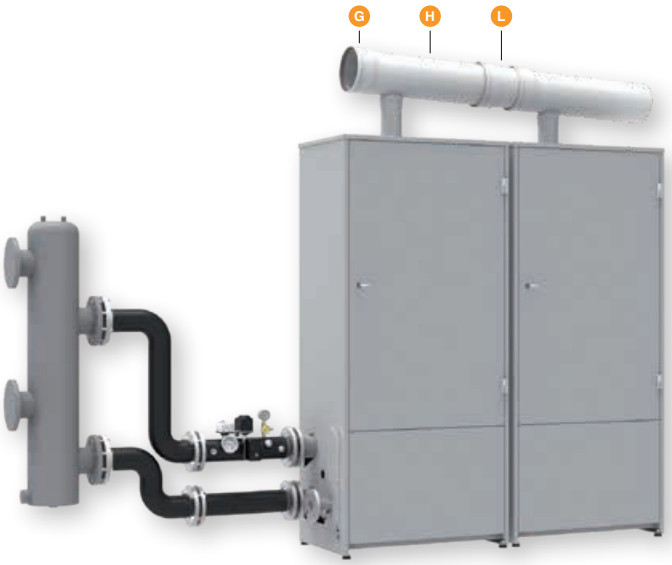


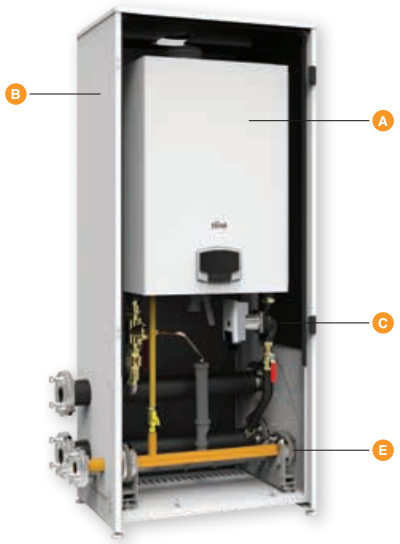
- Cabinet equipped for installing of the FORCE W boilers outdoors in a single or bank configuration up to 600 kW
- The cabinet can be combined with one of five models from the FORCE W range and one of the two circulators (8 m and 10 m head)
- Standard equipment includes:
  * Support frame for the FORCE W thermal generator
  * DN 65 system delivery and return manifolds
  * DN 40 gas manifold
  * Flanged system fittings kit
  * Condensate collection and drain manifold
  * Three-way shut-off valve with discharge into the atmosphere
  * Two-way shut-off valve
  * Check valve
  * Gas connection pipe between boilers and manifold with shut-off valve
- All optional kits are available for single or bank installation up to four modules in line.
- The generator combined with the cabinet kit can be installed without any protection against bad weather (IPX5D) and down to temperatures of -5°C



MODEL			W60		W80		W99		W120		W150	
ERP class			A		-		-		-		-	
Nominal power input	Max/Min	kW	58.0 / 15.0		74.4 / 15.0		96.6 / 19.0		113.0 / 19.0		143.0 / 24.0	
Nominal power output 80°C-60°C	Max/Min	kW	57 / 14.7		72.9 / 14.7		94.7 / 18.7		110.5 / 18.7		140.0 / 23.6	
Nominal power output 50°C-30°C	Max/Min	kW	60.8 / 16.3		77.0 / 16.3		100.0 / 20.5		117.0 / 20.5		148.0 / 25.9	
Thermal module FORCE W			0MDSAAWA		0MDSCAWA		0MDSDAWA		0MDSEAWA		0MDSFAWA	
Technical external cabinet			046058X0		046058X0		046058X0		046058X0		046058X0	
High performance modulating pump (8 mt)			042070X0	-	042070X0	-	042070X0	-	042070X0	-	042070X0	-
High performance modulating pump (10 mt)			-	042071X0	-	042071X0	-	042071X0	-	042071X0	-	042071X0

FORCE W CASCADE INSTALLATION FOR OUTDOORS





ACCESSORIES
NECESSARY TO CORRECTLY INSTALL FORCE W GENERATORS IN A BANK

	A						B	C		E	G	H	L	
							Technical cabinet equipped for outdoors	8-m modulating circulator	10-m modulating circulator	Blind flange kit DN65	Flue gas manifold starter kit (Ø 200 mm) *	Flue gas manifold extension kit (Ø 200 mm) *	Flue manifold adapter F 200 mm	Smoke chimney F 100 mm (for unprotected roof installations)
P_{out} (50/30°C)	MODULES FORCE W					Tot. modules								
	60	80	99	120	150		046058X0	042070X0	042071X0	042073X0	041091X0	041092X0	041093X0	041094X0
62	1					1	1	1	1	1	-	-	-	1
77		1				1	1	1	1	1	-	-	-	1
98			1			1	1	1	1	1	-	-	-	1
117				1		1	1	1	1	1	-	-	-	1
148					1	1	1	1	1	1	-	-	-	1
124	2					2	2	2	2	1	1	2	1	2
139	1	1				2	2	2	2	1	1	2	1	2
154		2				2	2	2	2	1	1	2	1	2
179	1			1		2	2	2	2	1	1	2	1	2
194		1		1		2	2	2	2	1	1	2	1	2
215			1	1		2	2	2	2	1	1	2	1	2
234				2		2	2	2	2	1	1	2	1	2
265				1	1	2	2	2	2	1	1	2	1	2
296					2	2	2	2	2	1	1	2	1	2
332			1	2		3	3	3	3	1	1	3	2	3
351				3		3	3	3	3	1	1	3	2	3
373		1			2	3	3	3	3	1	1	3	2	3
394			1		2	3	3	3	3	1	1	3	2	3
413				1	2	3	3	3	3	1	1	3	2	3
444					3	3	3	3	3	1	1	3	2	3
468				4		4	4	4	4	1	1	4	3	4
530				2	2	4	4	4	4	1	1	4	3	4
561				1	3	4	4	4	4	1	1	4	3	4
592					4	4	4	4	4	1	1	4	3	4

* Flue gas accessories certified for installation in a utility room or in a protected place

ACCESSORIES
UPON REQUEST FOR CONFIGURATION ACCORDING TO PROJECT SPECIFICATIONS

	DESCRIPTION		CODE
	additional sensor for storage tank and/or system flow for cascade configurations with and without hydraulic separator	cable 2 m	1KWMA11W
		cable 5 m	043005X0
	outdoor probe		013018X0
	Single empty cabinet for outdoors		046060X0
	Double empty cabinet for outdoors		046061X0
	hydraulic separator DN 32. For installation until 150 kW. The installer is responsible for the connection with the generator		042086X0
	hydraulic separator DN 65 For installation from 151 kW to 300 kW		042078X0
	installation kit for hydraulic separator. For installation from 151 kW to 300 kW		042079X0
	hydraulic separator DN 65 For installation from 301 kW to 600 kW		042080X0
	installation kit for hydraulic separator. For installation from 301 kW to 600 kW		042081X0
	Temperature controls IN CHAPTER ON **SYSTEM CONTROL COMPONENTS**		
	neutralisers (see chapter on condensation neutralisers for condensing boilers)		

FORCE W CHOICE
HYDRAULIC SEPARATOR

The hydraulic separator guarantees the independence between the primary circuit (generator) and the secondary circuit (system) without any disturbance or interference between them.
The separator is proposed complete with deaerator, sludge separator and is fully insulated.

CHARACTERISTICS:
Max operating pressure: 6 bar
Temperature range: 0 - 100°C
Fittings: DN 65 / DN 100

HYDRAULIC SEPARATOR FOR INSTALLATION UP TO 150 KW

	DESCRIPTION	CODE
	Hydraulic separator DN 32 The installer is responsible for the connection with the generator	042086X0

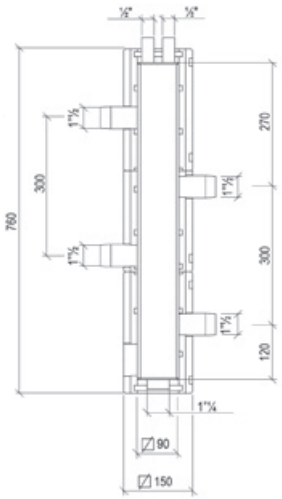
HYDRAULIC SEPARATOR FOR INSTALLATION FROM 151 TO 300 KW

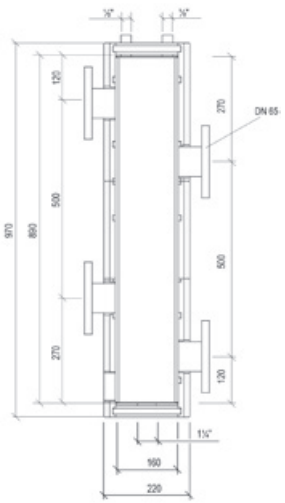
	DESCRIPTION	CODE
	Hydraulic separator DN 65	042078X0
	Kit for hydraulic separator installation	042079X0

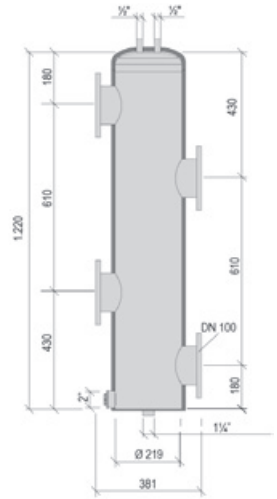
HYDRAULIC SEPARATOR FOR INSTALLATION FROM 301 TO 600 KW

	DESCRIPTION	CODE
	Hydraulic separator DN 100	042080X0
	Kit for hydraulic separator installation	042081X0

DIMENSION AND TECHNICAL DATA







MODEL		DN 32	DN 65	DN 100
Flow rate	m^3/h	6.5	18	30
Water content	lt	4.8	21	46
Max temperature	°C	100	100	100
Max pressure	bar	6	6	6
Material	-	ST37.1 stainless	ST37.1 stainless	ST37.1 stainless
Insulation	-	Black EPP - 40 g/l	Black EPP - 40 g/l	Black EPP - 40 g/l

OPERA CONDENSING THERMAL GENERATOR FOR LARGE VOLUME OF WATER



> STRENGTHS:

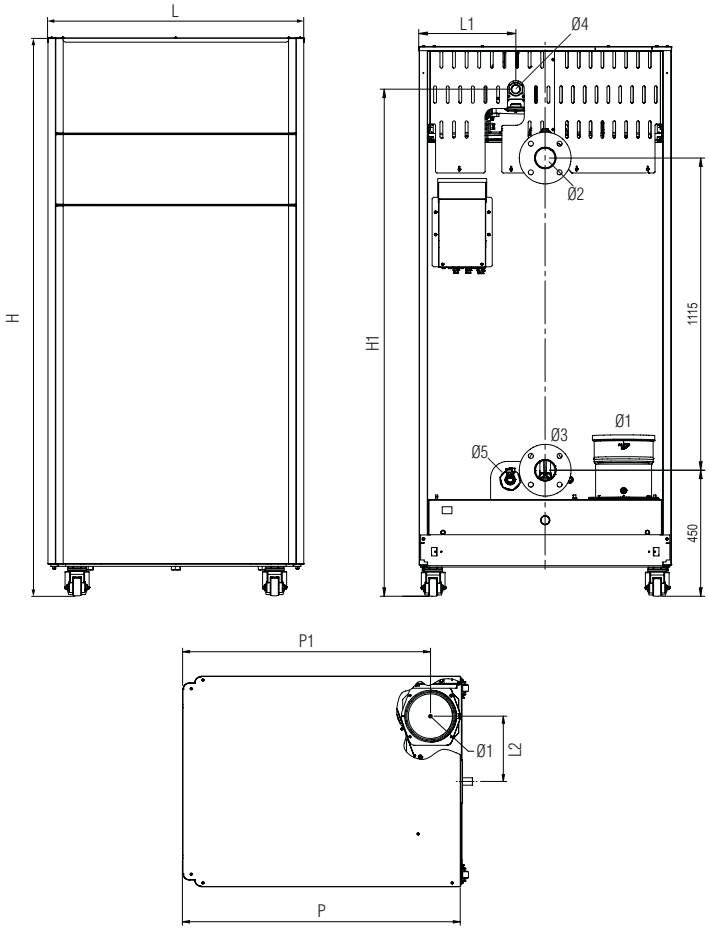
- **High power condensing thermal module** with **large water content,** designed for single or cascade installations, in combination with a complete range of water, gas and flue gas accessories, up to 1350 kW
- Hydraulic, gas and flue gas accessories for cascade installation with 2 and 3 modules
- Flue gas tube heat exchanger, made with **AISI 316 Ti** stainless steel, with vertical configuration, helical cross-section, set up perpendicularly to the flue gas chamber
- Full pre-mixing combustion unit with metal fibre front combustion burner with very low emissions **(CLASS 6 according to EN 15502-1)**. The modules can run on natural gas and LPG
- The combustion chamber has an extremely contained overall vertical dimension so that the exchange of water/flue gases can take place over the entire extension of the exchanger
- **Generator protection systems:** Double sensor (delivery and return) system for operation at **ΔT constant** / Flue gas safety sensor / Water pressure switch with minimum threshold at 0.8 bar
- Air / Flue gas circuit with intake in the installation site and **check valve integrated on the intake unit** to size the pressurised flue gas manifold
- Control panel protected by a door built into the outer casing with **key lock**
- **Four heavy-duty floating wheels** fitted per standard to facilitate unloading and mobility inside the thermal power plant. Adjustable feet for positioning

> ADVANTAGES OF OPERA:

- It reaches **one of the highest seasonal space** heating efficiencies in its category: **η_s 94%**
- SYSTEM : combined with the modulating remote control and the outdoor probe (optional) it reaches **the top efficiency class A+**
- The **large volume of water** of the generator allows the boiler to be connected to the system without the need for separating devices and allows for a **very high design Δt**
- Management of the modules in cascade set-up with self-configuring **MASTER / SLAVE system**
- Setting of **switching on and off of generators** (which can be switched on and off in **sequence** or work simultaneously in **parallel**) through the control panel of the MASTER generator
- Electronics on board the machine to manage a **system with two direct zones and one DHW storage** or systems with differentiated temperatures (direct and mixed) in combination with the thermoregulator THETA+
- **RANGE RATED** certified generator to adjust the generated power to the system's needs by increasing the efficiency of the system and preserving the mechanics of the machine
- The modules can be controlled and conducted remotely: Regulation of power or temperature with **0 - 10V signal** / Signalling of block alarm for safety and restoration of operation / **OPENTHERM (OT) and MODBUS** parameterisable communication protocols
- Electronic control of microprocessor combustion allows **1/5 modulation on the single generator and of the 1/20 for the maximum configuration** (3 x 450 modules in cascade set-up)



MODEL			70	125	160	220	320	450
ERP Class				ENERGY LABELLING NOT RELEVANT				
Heating heat input	Max / Min	kW	65,5 / 14,0	116,0 / 23,0	150,0 / 41,0	207,0 / 41,0	299,0 / 62,0	420,0 / 80,0
Heat output (80°C / 60°C)	Max / Min	kW	64,4 / 13,7	114,0 / 22,5	147,0 / 40,2	204,0 / 40,2	294,5 / 60,8	412,7 / 78,4
Heat output (50°C / 30°C)	Max / min	kW	69,9 / 15,0	125,0 / 24,8	160,0 / 44,2	220,0 / 44,2	320,0 / 66,8	448,6 / 86,2
Efficiency (80°C / 60°C)	PMax / PMin	%	98,3 / 98,0	98,3 / 98,0	98,4 / 98,0	98,5 / 98,0	98,5 / 98,0	98,3 / 98,0
Efficiency (50°C / 30°C)	PMax / PMin	%	106,8 / 107,7	106,8 / 107,7	106,8 / 107,7	106,8 / 107,7	106,8 / 107,7	106,8 / 107,7
Efficiency	30% partial load	%	109,6	109,6	109,5	109,6	109,6	109,3
NOx emissions class			6	6	6	6	6	6
Max operating pressure	Max / Min	bar	6 / 0,5	6 / 0,5	6 / 0,5	6 / 0,5	6 / 0,5	6 / 0,5
Water content of the generator		litres	160	265	380	380	530	561
Empty weight		Kg	180	280	400	400	500	640
CODE	**NATURAL GAS**		**0RBM4AWA**	**0RBM7AWA**	**0RBM8AWA**	**0RBMAAWA**	**0RBMDAWA**	**0RBMGAWA**



> HYDRAULIC, GAS FITTINGS AND FLUE GAS OUTLETS

MODEL		70	125	160	220	320	450
Ø 1	Flue gas outlet Ø (mm)	80	100	160	160	200	200
Ø 2	System flow	1"1/4	1"1/4	2'	2'	DN65	DN65
Ø 3	System Return	1"1/4	1"1/4	2'	2'	DN65	DN65
Ø 4	Gas inlet	3/4'	1'	1'	1'	1'	1'
Ø 5	Boiler discharge	3/4'	3/4'	3/4'	3/4'	3/4'	3/4'

> HEIGHTS AND DIMENSIONS

ITEMS	L	L1	L2	H	H1	P	P1
	mm	mm	mm	mm	mm	mm	mm
OPERA 70	540	305	210	1883	1815	730	685
OPERA 125	660	390	160	1903	1800	880	810
OPERA 160	780	450	240	1933	1815	1050	950
OPERA 220	780	300	240	1933	1770	1050	950
OPERA 320	900	350	280	1963	1810	1190	1060
OPERA 450	900	345	280	2200	2050	1190	1060

> ACCESSORIES FOR SINGLE INSTALLATIONS

	DESCRIZIONE		CODICE
	motorised valve, 230V - 50Hz powered DN 50 **for mod. 70 and 125**		052000X0
	motorised valve, 230V - 50Hz powered DN 65 **for mod. 160, 220, 320, 450**		052001X0
	outdoor probe		013018X0
	additional sensor for storage tank and/or system flow for cascade configurations with and without hydraulic separator	cable 2 mt	1KWMA11W
		cable 5 m	043005X0

	DESCRIZIONE		CODICE
	500 mm PPS M/F flue gas pipe	100 mm	041072X0
		160 mm	041074X0
		200 mm	041076X0
	1000 mm PPS M/F flue gas pipe	100 mm	041073X0
		160 mm	041018X0
		200 mm	041062X0
	PPS M/F 90° bend	100mm	041077X0
		160 mm	041015X0
		200 mm	041060X0
	neutralisers (see chapter on condensation neutralisers for condensing boilers)		
	**Temperature control** in chapter **SYSTEM COMPONENTS**		

OPERA INSTALLATION IN A BANK



It is possible to connect in cascade a minimum of two 70 kW generators to a maximum of three 450 kW generators, in the combinations shown in the table.

Every detail of the OPERA range has been designed to simplify cascade installations.

- The hydraulic connections have been positioned at the same heights to simplify connection to the system delivery and return manifolds.
- The satellite flue gas outlet with respect to the generator body and the backflow prevention damper positioned directly on the fan facilitate sizing and implementation of the flue gas manifold (pressurised).
- Coupled with a complete series of accessories for several two or three-generator bank combinations, reaching a maximum output of 1350 kW.
- The electronics fitted as per standard was designed to autonomously manage the dynamics of several generators in cascade, with MASTER-SLAVE logic, up to a max of 6.
- By setting the parameters of the cascade MASTER board, the ignition and shutdown sequence of the various modules can be set and rotated so as to evenly divide the number of operating hours.

BATTERY COMBINATIONS OF 2 GENERATORS

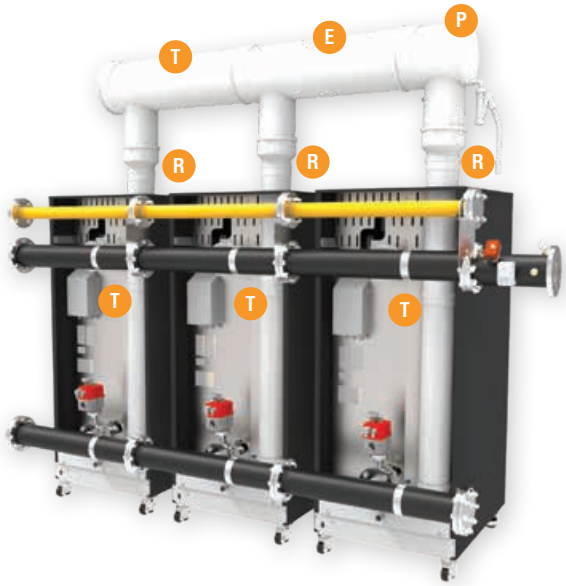
HEAT OUTPUT (50/30°C)	COMBINATION MODEL		CASCADE MODULATION PMIN/PMAX (50/30°C)	
kW	1°	2°	kW	MODULATION RATIO
139,8	70	70	15,0/139,8	1 / 9
194,9	70	125	15,0 / 194,9	1 / 13
250,0	125	125	24,8 / 250,0	1 / 10
285,0	125	160	24,8 / 285,0	1 / 11
320,0	160	160	44,2 / 320,0	1 / 7
380,0	160	220	44,2 / 380,0	1 / 9
440,0	220	220	44,2 / 440,0	1 / 10
540,0	220	320	44,2 / 540,0	1 / 12
640,0	320	320	66,8 / 640,0	1 / 10
818,6	320	450	66,8 / 768,6	1 / 11
897,2	450	450	86,2 / 897,2	1 / 10

BATTERY COMBINATIONS OF 3 GENERATORS

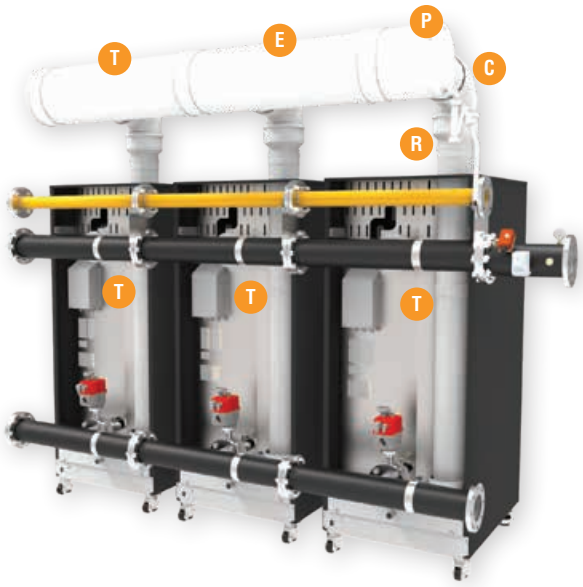
HEAT OUTPUT (50/30°C)	COMBINATION MODEL			CASCADE MODULATION PMIN/PMAX (50/30°C)	
kW	1°	2°	3°	kW	MODULATION RATIO
209,7	70	70	70	15,0 / 209,7	1 / 14
264,8	70	70	125	15,0 / 264,8	1 / 18
319,9	70	125	125	15,0 / 319,9	1 / 21
375,0	125	125	125	24,8 / 375,0	1 / 15
410,0	125	125	160	24,8 / 410,0	1 / 16
445,0	125	160	160	24,8 / 445,0	1 / 18
480,0	160	160	160	44,2 / 480,0	1 / 11
540,0	160	160	220	44,2 / 540,0	1 / 12
600,0	160	220	220	44,2 / 600,0	1 / 14
660,0	220	220	220	44,2 / 660,0	1 / 15
760,0	220	220	320	44,2 / 760,0	1 / 17
860,0	220	320	320	44,2 / 860,0	1 / 19
960,0	320	320	320	66,8 / 960,0	1 / 14
1088,6	320	320	450	66,8 / 1088,6	1 / 16
1217,2	320	450	450	66,8 / 1217,2	1 / 18
1345,8	450	450	450	86,2 / 1345,8	1 / 15

OPERA INSTALLATION IN A BANK

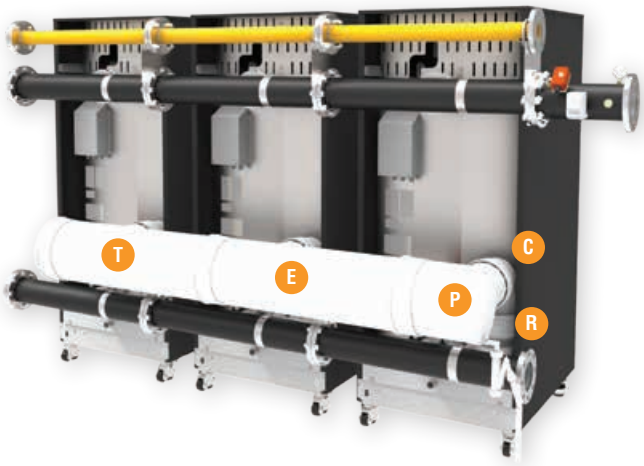
FLUE GAS MANIFOLD HIGH OUTLET



FLUE GAS MANIFOLD MEDIUM OUTLET



FLUE GAS MANIFOLD LOW OUTLET



GAS LINE AND SYSTEM DELIVERY/RETURN MANIFOLDS



> ACCESSORIES ON DEMAND FOR BANK INSTALLATIONS

	DESCRIPTION	CODE
	motorised valve, 230V - 50Hz powered DN 50 **for mod. 70 and 125**	052000X0
	motorised valve, 230V - 50Hz powered DN 65 **for mod. 160, 220, 320, 450**	052001X0
	**Temperature control** in chapter **SYSTEM COMPONENTS**	

	DESCRIPTION		CODE
	outdoor probe		013018X0
	additional sensor for storage tank and/or system flow for cascade configurations with and without hydraulic separator	cable 2 m	1KWMA11W
		cable 5 m	043005X0
	neutralisers (see chapter on condensation neutralisers for condensing boilers)		

HYDRAULIC AND GAS ACCESSORIES
NECESSARY TO CORRECTLY INSTALL 2 OPERA GENERATORS IN A BANK

					G	G	G	I	I	I	F	F	F	B	B	A	A	A
					1" 1/2 - 1" gas manifold	2" - 1" gas manifold	2" 1/2 - 1" gas manifold	DN50 - 2" hydraulic manifold	DN65 - 2" hydraulic manifold	DN100 - DN65 hydraulic manifold	DN50 flange kit	DN65 flange kit	DN100 flange kit	F-F 1"1/4 coupling	F-F 2" coupling	2" - 1"1/2 M-F reduction nipple	Flange DN50 - sleeve 1"1/4	Flange DN65 - sleeve 2"
																		
HEAT OUTPUT (50/30°C)	MODULES OPERA			COLLECTOR	042050X0	042051X0	042052X0	042053X0	042054X0	042055X0	042059X0	042060X0	042061X0	042062X0	042063X0	042064X0	042065X0	042066X0
	1	2	3		no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.
139,8	70	70	-	Gas	2													
				Mandata				2			1			2				
				Ritorno				2			1						4	
194,9	70	125	-	Gas	2													
				Mandata				2			1			2				
				Ritorno				2			1						4	
250,0	125	125	-	Gas	2													
				Mandata				2			1			2				
				Ritorno				2			1						4	
285,0	125	160	-	Gas		2												
				Mandata					2			1			2	1		
				Ritorno					2			1				1		4
320,0	160	160	-	Gas		2												
				Mandata					2			1			2			
				Ritorno					2			1						4
380,0	160	220	-	Gas		2												
				Mandata					2			1			2			
				Ritorno					2			1						4
440,0	220	220	-	Gas		2												
				Mandata					2			1			2			
				Ritorno					2			1						4
540,0	220	320	-	Gas			2					1						
				Mandata						2			1					1
				Ritorno						2			1					1
640,0	320	320	-	Gas			2					1						
				Mandata						2			1					
				Ritorno						2			1					
818,6	320	450	-	Gas			2					1						
				Mandata						2			1					
				Ritorno						2			1					
897,2	450	450	-	Gas			2					1						
				Mandata						2			1					
				Ritorno						2			1					

HYDRAULIC AND GAS ACCESSORIES
NECESSARY TO CORRECTLY INSTALL 3 OPERA GENERATORS IN A BANK

					G	G	G	I	I	I	F	F	F	B	B	A	A	A
					1" 1/2 - 1" gas manifold	2" - 1" gas manifold	2" 1/2 - 1" gas manifold	DN50 - 2" hydraulic manifold	DN65 - 2" hydraulic manifold	DN100 - DN65 hydraulic manifold	DN50 flange kit	DN65 flange kit	DN100 flange kit	F-F 1"1/4 coupling	F-F 2" coupling	2" - 1"1/2 M-F reduction nipple	Flange DN50 - sleeve 1"1/4	Flange DN65 - sleeve 2"
																		
HEAT OUTPUT (50/30°C)	MODULES OPERA			COLLECTOR	042050X0	042051X0	042052X0	042053X0	042054X0	042055X0	042059X0	042060X0	042061X0	042062X0	042063X0	042064X0	042065X0	042066X0
	1	2	3		no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.
209,7	70	70	70	Gas	3													
				Flow				3			1			3				
				Return				3			1						6	
264,8	70	70	125	Gas	3													
				Flow				3			1			3				
				Return				3			1						6	
319,9	70	125	125	Gas	3													
				Flow				3			1			3				
				Return				3			1						6	
375,0	125	125	125	Gas		3												
				Flow					3			1			3	3		
				Return					3			1				3		6
410,0	125	125	160	Gas		3												
				Flow					3			1			3	2		
				Return					3			1				2		6
445,0	125	160	160	Gas		3												
				Flow					3			1			3	1		
				Return					3			1				1		6
480,0	160	160	160	Gas			3					1						
				Flow						3			1					3
				Return						3			1					3
540,0	160	160	220	Gas			3					1						
				Flow						3			1					3
				Return						3			1					3
600,0	160	220	220	Gas			3					1						
				Flow						3			1					3
				Return						3			1					3
660,0	220	220	220	Gas			3					1						
				Flow						3			1					3
				Return						3			1					3
760,0	220	220	320	Gas			3					1						
				Flow						3			1					2
				Return						3			1					2
860,0	320	320	220	Gas			3					1						
				Flow						3			1					1
				Return						3			1					1
960,0	320	320	320	Gas			3					1						
				Flow						3			1					
				Return						3			1					
1088,6	320	320	450	Gas			3					1						
				Flow						3			1					
				Return						3			1					
1217,2	320	450	450	Gas			3					1						
				Flow						3			1					
				Return						3			1					
1345,8	450	450	450	Gas			3					1						
				Flow						3			1					
				Return						3			1					

FLUE GAS ACCESSORIES
NECESSARY TO CORRECTLY INSTALL 2 OPERA GENERATORS IN A BANK

					P	P	P	E	E	E	T	T	T	T	T	T	C	C	C	R	R	R
					Starting flue gas manifold F 300 mm	Starting flue gas manifold F 200 mm	Starting flue gas manifold F 160 mm	Flue gas manifold F 300 mm	Flue gas manifold F 200 mm	Flue gas manifold F 160 mm	Pipe f 200 M-F L 1000 mm PPS	Pipe f 200 M-F L 500 mm PPS	Pipe f 160 M-F L 1000 mm PPS	Pipe f 160 M-F L 500 mm PPS	Pipe f 100 M-F L 1000 mm PPS	Pipe f 100 M-F L 500 mm PPS	Bend 90° F 200 M-F PPS	Bend 90° F 160 M-F PPS	Bend 90° F 100 M-F PPS	Reduction F 160-200 mm M-F PPS	Reduction F 100-160 mm M-F PPS	Reduction F 80-100 mm M-F PPS
																						
HEAT OUTPUT (50/30°C)	MODULES OPERA			FLUE GAS EJECTION	041070X0	041068X0	041066X0	041071X0	041069X0	041067X0	041062X0	041076X0	041018X0	041074X0	041073X0	041072X0	041060X0	041015X0	041077X0	041080X0	041079X0	041078X0
	1	2	3		no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.
139,8	70	70	-	Low			1			1									2			2
				Medium			1			1					2	2			2			2
				High			1			1					2	2						2
194,9	70	125	-	Low			1			1									2			1
				Medium			1			1					2	2			2			1
				High			1			1					2	2						1
250,0	125	125	-	Low			1			1									2			
				Medium			1			1					2	2			2			
				High			1			1					2	2						
285,0	125	160	-	Low		1			1									2			1	
				Medium		1			1				1	2	1	1		2			1	
				High		1			1				1	2	1	1					1	
320,0	160	160	-	Low		1			1									2				
				Medium		1			1				2	2				2				
				High		1			1				2	2								
380,0	160	220	-	Low		1			1									2				
				Medium		1			1				2	2				2				
				High		1			1				2	2								
440,0	220	220	-	Low		1			1									2				
				Medium		1			1				2	2				2				
				High		1			1				2	2								
540,0	220	320	-	Low	1			1									2			1		
				Medium	1			1			1	1		3			2			1		
				High	1			1			1	1		3						1		
640,0	320	320	-	Low	1			1									2					
				Medium	1			1			2	2					2					
				High	1			1			2	2										
818,6	320	450	-	Low	1			1									2					
				Medium	1			1			4						2					
				High	1			1			4											
897,2	450	450	-	Low	1			1									2					
				Medium	1			1			4	4					2					
				High	1			1			4	4										

FLUE GAS ACCESSORIES
NECESSARY TO CORRECTLY INSTALL 3 OPERA GENERATORS IN A BANK

					P	P	P	E	E	E	T	T	T	T	T	T	C	C	C	R	R	R
					Starting flue gas manifold F 300 mm	Starting flue gas manifold F 200 mm	Starting flue gas manifold F 160 mm	Flue gas manifold F 300 mm	Flue gas manifold F 200 mm	Flue gas manifold F 160 mm	Pipe f 200 M-F L 1000 mm PPS	Pipe f 200 M-F L 500 mm PPS	Pipe f 160 M-F L 1000 mm PPS	Pipe f 160 M-F L 500 mm PPS	Pipe f 100 M-F L 1000 mm PPS	Pipe f 100 M-F L 500 mm PPS	Bend 90° F 200 M-F PPS	Bend 90° F 160 M-F PPS	Bend 90° F 100 M-F PPS	Reduction F 160-200 mm M-F PPS	Reduction F 100-160 mm M-F PPS	Reduction F 80-100 mm M-F PPS
																						
HEAT OUTPUT (50/30°C)	MODULES OPERA			FLUE GAS EJECTION	041070X0	041068X0	041066X0	041071X0	041069X0	041067X0	041062X0	041076X0	041018X0	041074X0	041073X0	041072X0	041060X0	041015X0	041077X0	041080X0	041079X0	041078X0
	1	2	3		no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.	no.
209,7	70	70	70	Low			1			2									3			3
				Medium			1			2					3	3			3			3
				High			1			2					3	3						3
264,8	70	70	125	Low			1			2									3			2
				Medium			1			2					3	3			3			2
				High			1			2					3	3						2
319,9	70	125	125	Low			1			2									3			1
				Medium			1			2					3	3			3			1
				High			1			2					3	3						1
375,0	125	125	125	Low		1			2									3			3	
				Medium		1			2						3	3		3			3	
				High		1			2	2					3	3		0			3	
410,0	125	125	160	Low		1			2									3			2	
				Medium		1			2				1	2	2	2		3			2	
				High		1			2				1	2	2	2					2	
445,0	125	160	160	Low		1			2					2				3			1	
				Medium		1			2				2	4	1	1		3			1	
				High		1			2				2	4	1	1					1	
480,0	160	160	160	Low		1			2									3				
				Medium		1			2				3	3				3				
				High		1			2				3	3								
540,0	160	160	220	Low		1			2									3				
				Medium		1			2				3	3				3				
				High		1			2				3	3								
600,0	160	220	220	Low	1			2									3			3		
				Medium	1			2						9			3			3		
				High	1			2						9						3		
660,0	220	220	220	Low	1			2									3			3		
				Medium	1			2						9			3			3		
				High	1			2						9						3		
760,0	220	220	320	Low	1			2									3			2		
				Medium	1			2			1	1		6			3			2		
				High	1			2			1	1		6						2		
860,0	220	320	320	Low	1			2									3			1		
				Medium	1			2			2	2		3			3			1		
				High	1			2			2	2		3						1		
960,0	320	320	320	Low	1			2									3					
				Medium	1			2			3	3					3					
				High	1			2			3	3										
1088,6	320	320	450	Low	1			2									3					
				Medium	1			2			6	6					3					
				High	1			2			6	6										
1217,2	320	450	450	Low	1			2									3					
				Medium	1			2			6	6					3					
				High	1			2			6	6										
1345,8	450	450	450	Low	1			2									3					
				Medium	1			2			6	6					3					
				High	1			2			6	6										

MACH

CONDENSING HEAT GENERATOR WITH HIGH POWER MODULATION, FOR OUTDOOR USE



> STRONG POINTS:

- High power condensing heat generator with a **modulation range of up to 1/40**. Designed for installation in a central heating plant or **unprotected outdoors.**
- Heat exchange unit made up of a **string of aluminium-silicon alloy elements** designed to obtain maximum exchange efficiency and low pressure drops on the water circuit. Each element is complete with circulation unit and burner.
- The combustion units are of the complete premixing type, with a micro-flame burner with very low polluting emissions (Class 6 according to EN 15502-1). The generator can run on **Methane gas or LPG**
- Generator protection systems: Double sensor (delivery and return) system for operation at **constant ΔT** / Flue gas safety sensor / Water pressure switch with minimum threshold at 0.8 bar
- Hydraulic unit with **three-way shut-off valve for discharge into the atmosphere** on the return circuit and non-return valve on the delivery
- Air / Flue gas circuit with suction at the installation site and **clapet flue gas non-return valve** for sizing the pressurised manifold
- Four sturdy **floating wheels fitted as standard** to facilitate unloading and movements within the thermal power plant. All wheels are equipped with adjustment and locking systems.

> ADVANTAGES OF MACH:

- MACH has been designed to be installed **both indoors and outdoors even without any weather protection.** It can be connected to the system on the right or left side and it is delivered complete with blind flanges.
- The electronic control supplied as standard with MACH is able to:
  * **configure the switch-on** and switch-off sequence of the individual heating units.
  * manage a heating system with **two direct zones or one direct zone and a DHW storage tank**
  * adjust the power or temperature with the **0 - 10V signal**
  * remote the signal of any safety locks
  * restore normal operation remotely
- Combined with the **THETA+** temperature control kit, it is possible to manage:
  * **up to eight generators in cascade**
  * a system with three heating circuits (of which **two mixed and one direct**)
  * the production of domestic hot water with an **external storage tank**
  * a second energy source (solar thermal, biomass...)



MODEL			120	150	225	300	370	450	520	600
Heat input	Max/Min	kW	115.0 / 14.0	142 / 15.5	213 / 15.5	284 / 15.5	355 / 15.5	426 / 15.5	497 / 15.5	568 / 15.5
Heat output (80°C/-60°C)	Max/Min	kW	112.8 / 13.7	139.2 / 13.7	208.8 / 13.7	278.4 / 13.7	348.1 / 13.7	417.7 / 13.7	487.3 / 13.7	556.9 / 13.7
Max heat output (50°C/-30°C)	Max/Min	kW	120.2 / 15.1	148.4 / 15.1	222.6 / 15.1	296.8 / 15.1	371 / 15.1	445.2 / 15.1	519.4 / 15.1	593.6 / 15.1
Modulation ratio	Max/Min		8 / 1	10 / 1	15 / 1	20 / 1	25 / 1	30 / 1	35 / 1	40 / 1
Efficiency 80°C-60°C	Pmax%/Pmin%		98.0 / 97.7							
Efficiency 50°C-30°C	Pmax%/Pmin%		104.5 / 108.2							
Reduced load 30%	%		108.8							
NOx class			6							
Weighted NOx (O_2= 0%)		mg/kWh	42							
Weighted CO (O_2= 0%)		mg/kWh	19							
Operating pressure	Pmax/Pmin	bar	6 / 0.8							
Degree of protection		IP	X05							
Power supply		V/Hz	230V - 50Hz							
Net weight		kg	215	220	260	295	360	400	470	505
CODE			**0MCMEAWA**	**0MCMFAWA**	**0MCMJAWA**	**0MCMLAWA**	**0MCMMAWA**	**0MCMNAWA**	**0MCMPAWA**	**0MCMQAWA**

MACH

DESCRIPTION
COMPONENTS



MACH

1. Heat exchanger with aluminium-silicon alloy elements
2. Total premix combustion unit
3. System return unit
4. System flow unit
5. Air bleed valve
6. Hydraulic pressure safety sensor



THERMAL MODULE

1. High performance heat exchanger with aluminium-silicon alloy elements. Each element can exchange up to 75 kW
2. Premix type combustion unit with modulating fan. Front burner with micro-flame and very low polluting emissions (NOx class 6).
3. Flue gas non-return valve. On the suction circuit there is a valve with a mobile damper which prevents the flue gases from going back into the room through the boiler. This allows for the combustion gases to be discharged while pressurised and, consequently, for the flue system to have a smaller diameter compared to traditional vacuum systems.
4. Condensation collection collector
5. Ignition electrodes and flame sensor
6. Delivery temperature sensor

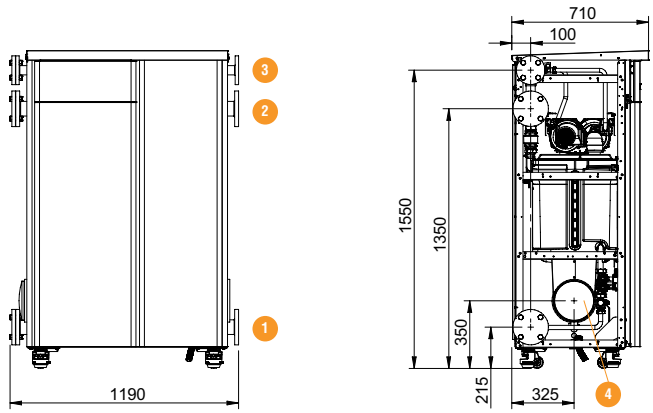


SYSTEM CIRCULATION / RETURN UNIT

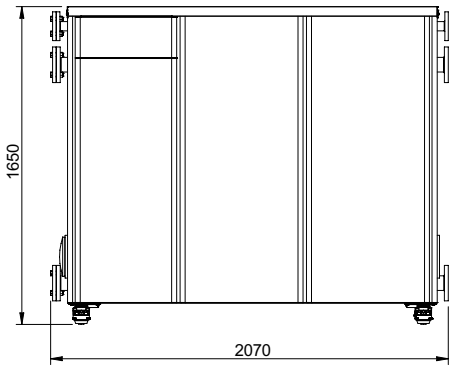
1. High-efficiency modulating circulator.
   Max. head 8 metres
2. 3-way valve with discharge into the atmosphere on each thermal module for safe disconnection.
3. System return temperature sensor

MACH

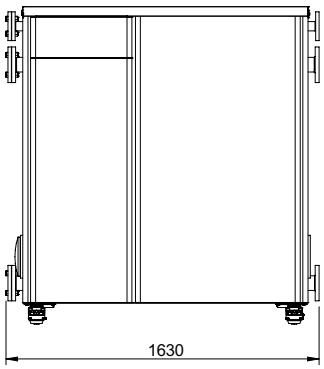
DIMENSIONS AND CONNECTIONS



mod. 120 - 150 - 225 - 300



mod. 520 - 600



mod.370 - 450

1. DN 65 System return
2. DN 65 System flow
3. DN 40 Gas inlet
4. Flue gas outlet - Ø 200 mm

ACCESSORIES

ON REQUEST FOR CONFIGURATION ACCORDING TO THE DESIGN SPECIFICATIONS

	DESCRIPTION		CODE
	additional sensor for boiler and/ or system delivery for cascade configurations with and without hydraulic separator	cable 2 m	1KWMA11W
		cable 5 m	043005X0
	Empty technical cabinet for outdoor use		046062X0
	external probe		013018X0
	Hydraulic separator DN 40 (up to 150 kW)		042086X0
	Hydraulic separator DN 65 (from 151 kW up to 300 kW)		042078X0
	Hydraulic separator connection kit (from 151 kW up to 300 kW)		042089X0
	Hydraulic separator DN 65 (from 301 kW up to 600 kW)		042080X0
	Hydraulic separator connection kit (from 301 kW up to 600 kW)		042088X0

	DESCRIPTION	CODE
	INAIL connection (complete with equipment) DN65 PN16	042057X0
	kit for the management of a DHW boiler with a thermostat (not supplied)	013017X0
	PPS smoke pipe M/F length 500 mm - 200 mm	041076X0
	PPS smoke pipe M/F length 1000 mm - 200 mm	041062X0
	90° elbow M/F, PPS - 200 mm	041060X0
	**Temperature control - Water treatment** in the chapter **SYSTEM COMPONENTS** and **WATER TREATMENT**	
	neutralisers (see the chapter on condensation neutralisers for condensing boilers)	

TP3 COND

THREE PASS FLUE CONDENSING GENERATOR

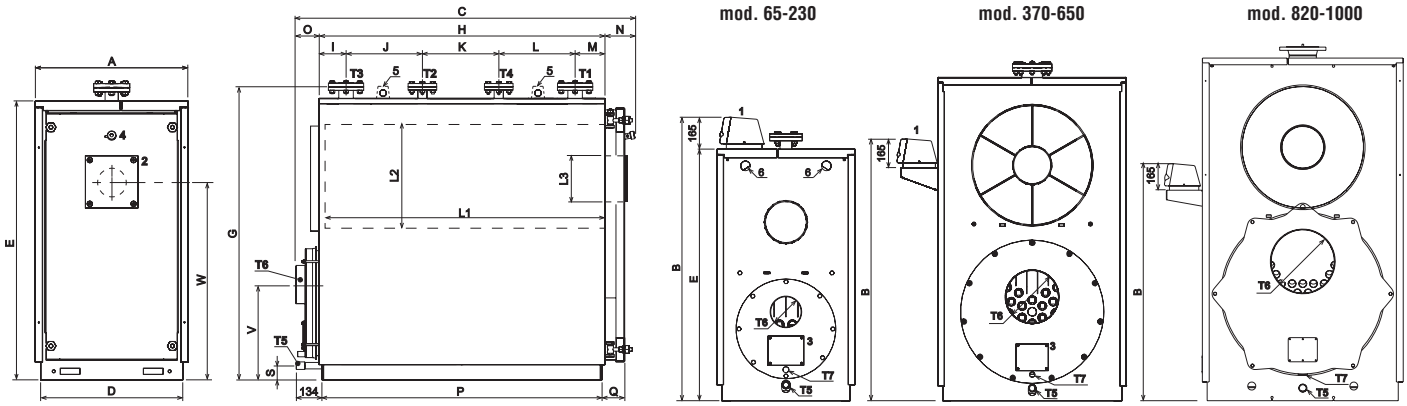


> STRENGTHS:

- **Steel, condensing heat generator** with **high water content**, designed to work in conjunction with **gas or oil** jet burners.
- **Boiler with three flue gas passes**, with return pipe from the bottom of the combustion chamber
- **Floating combustion chamber with wet bottom,** low volumetric heat load and **standard turbulators** on the last flue gas pass.
- **Front single-piece door** equipped with blind flange for securing the burner. All the parts in contact with the flue gases are coated with refractory material offering high resistance and thermal insulation. **Reversible opening (right and left)** and closing system and micro-metric adjustment on four points.
- **Double return fitting** for low and high temperature systems.
- **Contained front overall dimensions** to fit the generator through the accessways of thermal power plants.
- **High energy** efficiency
- **Maximum** operating **pressure 6 bar**
- **Heat transfer fluid circulation** control system inside the body to improve exchange and avoid thermal shock
- **"Satellite" control panel** available in thermostatic version

MODEL			65	100	150	230	370	500	650	820	1000
ERP Class			A	ENERGY LABELLING NOT RELEVANT							
Heat input (kW)		Max	61.3	94.3	141.5	217	349.1	471.7	613.2	767	935
		Min	18.4	28.3	42.5	65.1	104.7	141.5	184	498	608
Useful nominal power (80/60°C) (kW)		Max	59.5	91.5	137.3	210.5	338.6	457.5	594.8	752	916
		Min	18	27.7	41.6	63.8	102.6	138.7	180.3	489	595
Useful nominal power (50/30°C) (kW)	Gas	Max	65	100	150	230	370	500	650	820	1000
		Min	19.7	30.3	45.4	69.7	112	151.4	196.8	533	650
	Oil	Max	62.9	96.7	145	222.4	357.8	483.5	628.5	793.5	967.7
		Min	19.1	29.4	44.2	67.7	108.9	147.2	191.3	516.7	630
Efficiency (50/30°C) (%)	Gas	Max	106	106	106	106	106	106	106	106	106
		Min	107	107	107	107	107	107	107	107	107
	Oil	Max	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5
		Min	104	104	104	104	104	104	104	104	104
Efficiency 30%	Gas	Max	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5
	Oil	Min	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
Max operating pressure		bar	6	6	6	6	6	6	6	6	6
Pressure drop on flue gas side		mbar	0.4	0.65	1.7	1.7	2	3.5	4.2	6	6.4
Protection rating			IPX0D								
Electric power supply		V/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50
Empty weight		Kg	377	436	490	645	1035	1338	1451	2050	2150
CODE			**0RGZ3AXA**	**0RGZ4AXA**	**0RGZ5AXA**	**0RGZ8AXA**	**0RGZBAXA**	**0RGZDAXA**	**0RGZGAXA**	**0RGE00XA**	**0RGF00XA**
THERMOSTATIC CONTROL PANEL CODE			**0Q2K10XA**								

DIMENSIONS



> KEY

T1 Heating delivery
T2 High temperature return
T3 Low temperature return
T4 Safety fitting
T5 Boiler discharge connection
T6 Chimney connection
T7 Condensate discharge connection
1 Tool panel
2 Burner connection flange
3 Flue gas chamber cleaning door
4 Flame control light

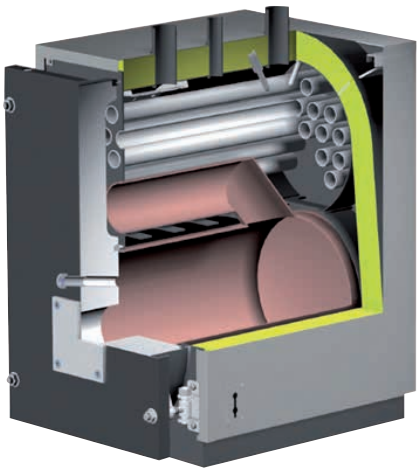
MODEL			65	100	150	230	370	500	650	820	1000
Measurements	A	mm	700	700	700	800	950	1050	1050	1180	1180
	B	mm	1437	1437	1437	1637	1462	1462	1462	1424	1424
	C	mm	1157	1377	1577	1777	1987	2187	2387	2620	2620
	D	mm	650	650	650	750	900	1000	1000	1120	1120
	E	mm	1275	1275	1275	1475	1655	1805	1805	2006	2006
	G	mm	1335	1335	1335	1535	1715	1860	1860	2075	2075
	H	mm	878	1098	1298	1498	1698	1900	2100	2094	2094
	I	mm	123	123	123	142	172	179	179	224	224
	J	mm	200	260	350	400	450	500	600	650	650
	K	mm	200	300	320	400	450	500	600	300	450
	L	mm	200	260	350	400	450	500	500	600	600
	M	mm	155	155	155	156	176	221	221	320	320
	N	mm	157	157	157	157	167	167	167	278	273
	O	mm	122	122	122	122	122	120	120	262	262
	P	mm	846	1066	1266	1467	1667	1867	2067	2068	2216
	Q	mm	134	134	134	134	144	144	144	226	226
	S	mm	80	80	80	80	70	70	70	78	78
	V	mm	450	443	435	500	550	587	580	830	830
	W	mm	905	905	905	1055	1200	1315	1315	1480	1480
System flow	T1		DN 50	DN 50	DN 50	DN 65	DN 80	DN 100	DN 100	DN 125	DN 125
High temperature system return	T2		DN 40	DN 40	DN 40	DN 40	DN 50	DN 65	DN 65	DN 65	DN 65
Low temperature system return	T3		DN 50	DN 50	DN 50	DN 65	DN 80	DN 100	DN 100	DN 125	DN 125
Safety fitting	T4		DN 40	DN 40	DN 40	DN 40	DN 50	DN 65	DN 65	DN 80	DN 80
Boiler discharge	T5		1”	1”	1”	1”	1”	1”	1”	1" 1/2	1" 1/2
Flue gas outlet	T6	ØE mm	160	160	160	200	250	300	300	350	350
Hearth length	L1	mm	686	906	1106	1308	1473	1672	1872	1980	2130
Internal diameter of the hearth	L2	Ø mm	420	420	420	500	550	610	610	700	700
Max nozzle diameter	L3	Ø mm	155	155	155	155	190	190	190	270	270
Nozzle length min / max		mm	160/230	160/230	160/230	160/230	160/230	160/230	160/230	320/390	320/390

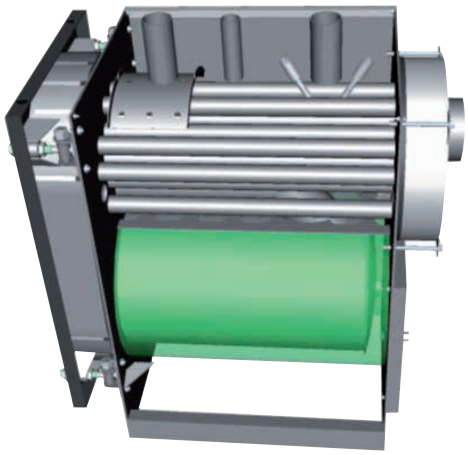
TP3 LN

3-PASS FLUES
STEEL BOILER



- Monobloc generator, **3-pass flues**, **small thermal load**, vertical layout and extremely compact front dimensions. Homologated for systems untill 100°C
- Ready for coupling with jet burners, operating with gas or oil and with low polluting emissions
- Large combustion chamber with **floating cooled back**
- Flues bundle for second and third flue-pass is situated in the top side of the combustion chamber. Flues tubes protudes from the plate, in order to **avoid condensation**
- **Steel turbolators**, increasing thermal efficiency of the generator. They have been carefully designed not to worsen flues pressure drop
- **High efficiency**. Ranges between 94,7% and 96,3% on LCV (t_{avg} 70°C)
- **Max operating pressure: 6 bars**. Higher pressure specifications upon demand
- Vertical connection are threaded until model 240 and flanged until model 600
- Completely insulated front door and **reversible opening** (right and left), thanks to an innovating mechanism on boiler body, with micrometric adjustment. Equipped with flame inspection hole and test point for combustion chamber back pressure





*



*** FOR MODELS 70÷399, IN EUROPEAN COMMUNITY CAN BE SOLD ONLY AS A REPLACEMENT OF AN IDENTICAL MODEL**

MODEL	HEAT OUTPUT	HEAT INPUT	PRESSURE DROP FLUE GAS SIDE	EMPTY WEIGHT	WIDTH	HEIGHT	DEPTH	CODE
	kW	kW	mbar	kg	mm	mm	mm	(see page 3)
70	70	73,9	0,8	236	670	1185	1130	**0RE099XA**
92	92	97,1	1,4	236	670	1185	1130	**0RE000XA**
107	107	112,9	2,4	332	670	1185	1555	**0RE100XA**
152	152	160,5	3,6	332	670	1185	1555	**0RE200XA**
190	190	200,8	3,4	460	760	1340	1570	**0RE300XA**
240	240	252,9	6,1	524	760	1340	1770	**0RE400XA**
320	320	335,7	3,9	833	820	1525	1990	**0RE600XA**
399	399	417,4	6,2	833	820	1525	1990	**0RE800XA**
500	500	522,8	4,3	1146	850	1615	2390	**0REB00XA**
600	600	627,2	6,3	1146	850	1615	2390	**0RED00XA**

PREXTHERM RSW

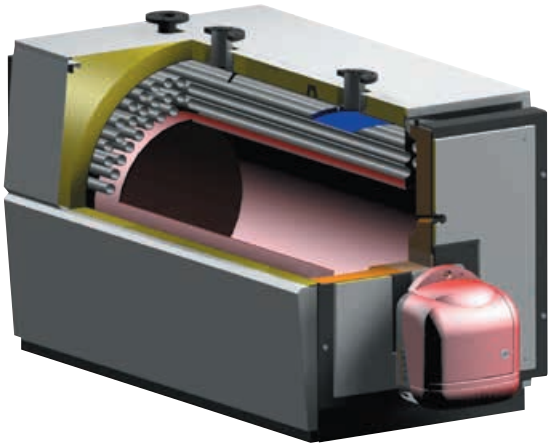
PRESSURISED STEEL BOILER



- Pressurised steel boiler, fit for installation of a jet burner, operating with gas or liquid fuel
- **Reverse flame** boiler body, fully insulated with a 80 mm thick layer of glass wool
- Front door with double layer of insulation and **reversible opening** (right and left) and door centering in a unique mechanism
- Carefully designed with a system optimising fluid circulation inside the boiler, thus improving thermal exchange and minimising stress on the materials
- **Max operating pressure: 6 bar**. Higher pressure specifications upon demand
- Models 92 N ÷ 401 N are available with a standard kit of connection flanges in the supply

QUADRA VERSION
92 ÷ 1890





TONDA VERSION
2360 ÷ 6000

*



*** FOR MODELS 92÷350, IN EUROPEAN COMMUNITY CAN BE SOLD ONLY AS A REPLACEMENT OF AN IDENTICAL MODEL**

MODEL	HEAT OUTPUT		HEAT INPUT		PRESSURE DROP FLUE GAS SIDE	BODY EMPTY WEIGHT	WIDTH	HEIGHT**	DEPTH	CODE
	min kW	max kW	min kW	max kW	mbar	kg	mm	mm	mm	(see page 3)
92 N	60	92	64,3	99,5	0,5	260	800	925	1087	**0QIJ3AXA**
107 N	70	107	75	116	0,7	260	800	925	1087	**0QIJ4AXA**
152 N	100	152	107,3	165	1,2	350	800	980	1337	**0QIJ6AXA**
190 N	137	190	147,4	206	1,2	350	800	980	1337	**0QIJ7AXA**
240 N	160	240	170,9	261	2,3	440	800	980	1587	**0QIJ8AXA**
300 N	196	300	209,5	326	3,3	480	940	1100	1607	**0QIJ9AXA**
350 N	228	350	277,5	378	3,5	590	940	1100	1857	**0QIJAAXA**
401 N	260	401	364,5	432	4,4	590	940	1100	1857	**0QIJBAXA**
525 N	341	525	417	567	4,3	860	1050	1250	1859	**0QIJEAXA**
600 N	390	600	495	648	4,8	970	1050	1250	2219	**0QIJFAXA**
720 N	468	720	502	777	4,5	1250	1250	1400	2219	**0QIJHBXA**
820 N	533	820	566	881	5,6	1250	1250	1400	2219	**0QIJIBXA**
940 N	611	940	651	1011	5,4	1420	1250	1400	2455	**0QIJJBXA**
1060 N	689	1060	731	1140	6,0	1580	1430	1580	2482	**0QIJKBXA**
1250	813	1250	884	1359	6,5	1953	1450	1580	2420	**0QCJ00XA**
1480	962	1480	1046	1608	6,5	2400	1530	1730	2722	**0QCL00XA**
1600	1040	1600	1158	1736	6,8	2500	1530	1730	2722	**0QCN00XA**
1890	1229	1890	1336	2054	7,0	2650	1530	1730	2722	**0QCP00XA**
2360	1535	2360	1668	2565	7,2	3550	1610	1950	3232	**0QCS00XA**
3000	1950	3000	2113	3250	7,5	4490	1800	2140	3446	**0QCU00XA**
3600	2340	3600	2536	3900	8,2	4900	1800	2140	3816	**0QCV00XA**
4000	2600	4000	2819	4334	9,5	6780	1980	2325	4086	**0QCW00XA**
4500	2926	4500	3165	4868	10,5	7380	1980	2325	4436	**0QCX00XA**
5000	3251	5000	3515	5407	10,8	9600	2180	2525	4458	**0QCY00XA**
6000	3902	6000	4215	6483	12,0	11500	2180	2525	4958	**0QCZ00XA**

*** Including water connections*

ATLAS D ECO COND UNIT CONDENSING LOW NOx OIL BOILER

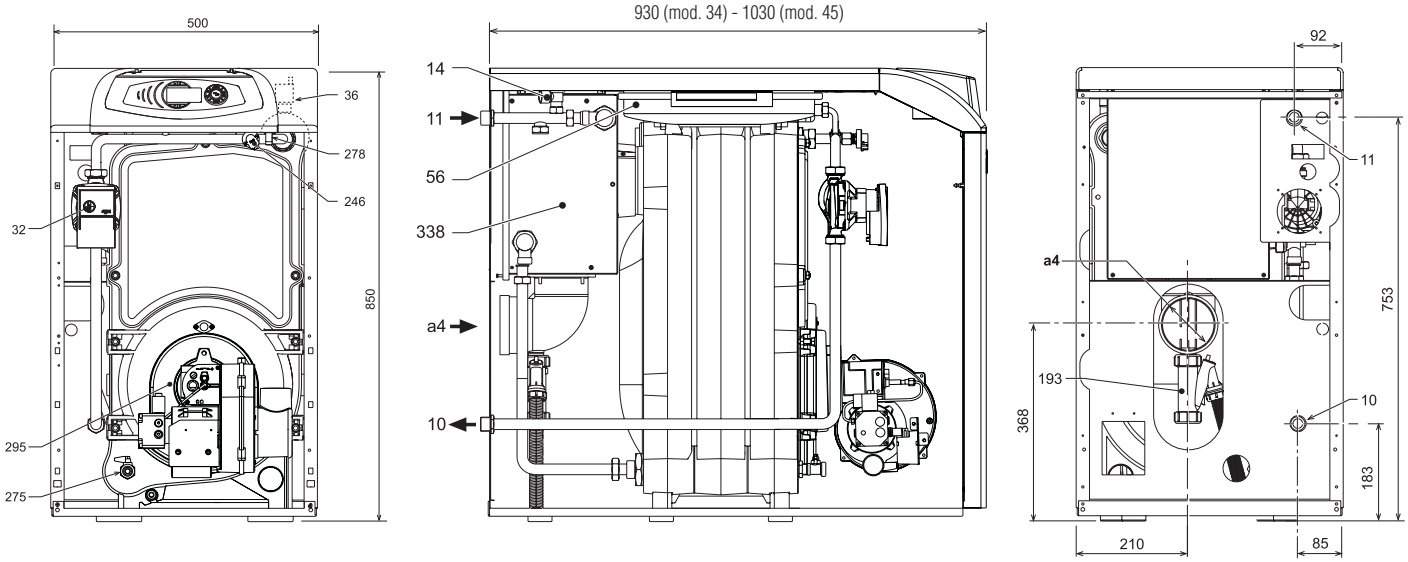


> STRENGTHS:

- **Boiler body** in cast iron G20 and preassembled elements with steel double cones and tie rods
- **High efficiency flue gas post condenser** in stainless steel AISI 2205
- Completely wet **combustion chamber**
- **Complete with single stage light oil burner** with low pollutant emissions
- **Control panel** with large interface display and easy and intuitive parameter setting keys
- **Including** heating pump, expansion vessel, 3 bar pressure relief valve and water pressure switch
- **Outer casing** in painted steel by epoxy powder anaphoresis and kiln fired at 180°C
- **Supplied** in a single parcel packed in a wooden box complete with filter and oil line connection hoses

> ADVANTAGES OF ATLAS D ECO COND UNIT:

- **Sliding temperature operating mode** with outdoor probe (optional)
- External domestic hot water storage tank managed by control electronics
- **Can be combined** with the remote control timer
- **Antifrost system** with triggering threshold at 6°C
- **Easy access** to stainless steel condenser for cleaning and inspection





MODEL		34	45
ERP Class		A	A
Max heat input	kW	33.0	43.5
Max heating heat output (80-60°C)	kW	32.0	42.0
Max heating heat output (50-30°C)	kW	33.8	44.5
Pmax efficiency (80-60°C)	%	97.0	96.6
Pmax efficiency (50-30°C)	%	102.6	102.3
Efficiency 30% Pn	%	103.5	102.8
Max heating operating pressure	bar	3	3
Number of elements	no.	3	4
Empty weight	Kg	180	216
CODE		**0JHW3YWA**	**0JHW4YWA**

> KEY

a4 Flue Ø 100
10 System delivery - Ø 3/4"
11 System return - Ø 3/4"
14 Heating safety valve
32 Heating circulating pump
36 Automatic air vent
56 Expansion tank
193 Trap
246 Pressure transducer
275 Drain - Ø 1/2"
278 Double sensor (Safety + heating)
295 Burner
338 Fumes recuperator

> ACCESSORIES

CODE	DESCRIPTION
1KWMA11W	ADDITIONAL 2-METRE STORAGE TANK SENSOR
043005X0	ADDITIONAL 5-METRE STORAGE TANK SENSOR
013017X0	KIT FOR MANAGEMENT WITH THERMOSTAT (not supplied) OF A DHW STORAGE TANK
013018X0	OUTDOOR PROBE

ATLAS D ECO COND SI UNIT

CONDENSING LOW NOx OIL BOILER INSTANT COMBI

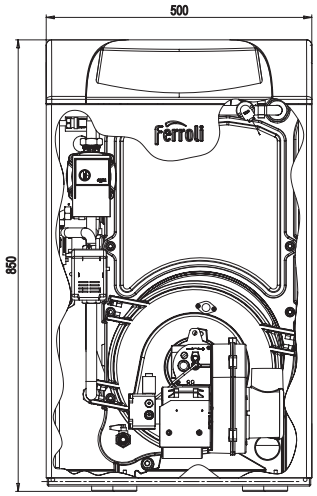


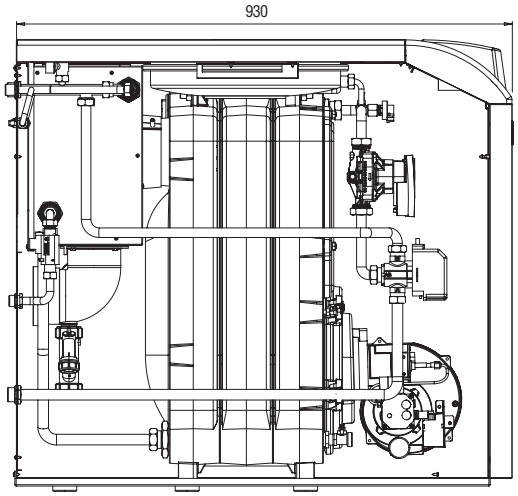
> STRENGTHS:

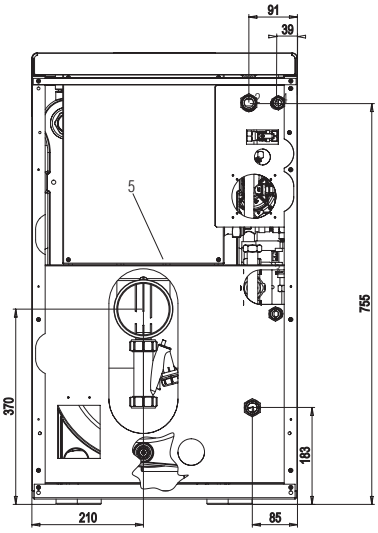
- **Boiler body** in cast iron G20 and preassembled elements with steel double cones and tie rods
- **High efficiency flue gas post condenser** in stainless steel AISI 2205 with integrated instantaneous domestic hot water production
- **Integrated domestic hot water circuit** in post condenser complete with flow switch. The system favours condensation even in the domestic hot water production phase, providing the generator with a high degree of efficiency
- Completely wet **combustion chamber**
- **Complete with single stage oil burner** with low pollutant emissions
- Control panel with large interface display and easy and intuitive parameter setting keys
- **Heating circuit** including pump, expansion vessel, 3 bar pressure relief valve and water pressure switch
- **Outer casing** in painted steel by epoxy powder anaphoresis and kiln fired at 180°C
- **Supplied** in a single parcel packed in a wooden box complete with filter and oil line connection hoses

> ADVANTAGES OF ATLAS D ECO COND SI UNIT:

- **Sliding temperature operating mode** with outdoor probe (optional)
- **Can be combined** with the remote control timer
- **Antifrost system** with triggering threshold at 6°C
- **Easy access** to stainless steel condenser for cleaning and inspection







REMOTE | CLIMATIC | LOW EMISSIONS (LOW NOx)

MODEL		34
ERP Class		A
	XL	A
Max heat input	kW	33.0
Max heating heat output (80-60°C) Max heating heat output (50-30°C)	kW kW	32.0 33.8
Useful thermal efficiency	80°C-60°C 50°C-30°C Reduced load 30%	97.0 102.6 -
Δt 30°C Domestic hot water production	l/min	15.8
Max heating operating pressure	bar	0.8
Empty weight	kg	180
CODE		**0LHW3YWA**

> KEY

1 System flow Ø 3/4"
2 System return Ø 3/4"
3 DHW inlet Ø 1/2
4 DHW return Ø 1/2
5 Flue gas outlet Ø 100 mm

> ACCESSORIES

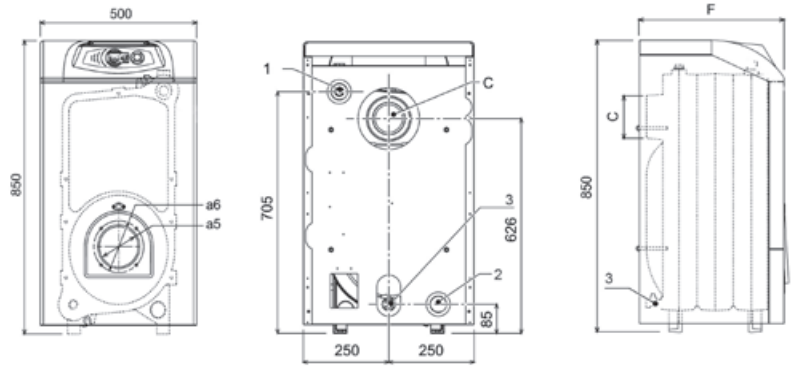
CODE	DESCRIPTION
013018X0	OUTDOOR PROBE

ATLAS D CAST IRON FLOORING STANDING BOILERS, FOR OIL



> STRENGTHS:

- **Heating device** designed to operate with jet burners with electric absorption ≤180 W for models 25-37 and ≤200 W for models 50-63-75 or for replacement with identical devices according to current regulations
- **Cast iron body**, with preassembled elements with steel double cones and tie rods, of the **three flue gas pass type** with completely wet combustion chamber
- **The standard electronics** can manage the heating system circulator, the remote timer control or room thermostat, the outdoor probe for flow temperature compensation, the circulator (3-way valve) and storage tank probe for DHW production with external storage
- **Key controls** and **LCD display interface**



> KEY

1 1" 1/2" system flow
2 1" 1/2" system return
3 Heating system drain valve
a5 Burner hole
a6 Burner connection
C Flue gas outlet

MODEL	C ø mm	F mm	a5 ø mm	a6 ø mm
ATLAS D 25	120 - 130	400	115	150
ATLAS D 37	120 - 130	500	115	150
ATLAS D 50	120 - 130	600	115	150
ATLAS D 63	120 - 130	700	115	150
ATLAS D 75	120 - 130	800	115	150



MODEL		25	37	50	63	75
ERP Class*		B	B	B	B	-
Heat Input	kW	28.3	41.9	56.6	71.3	84.6
Max heat output	kW	25.0	37.0	50.0	63.0	75.0
Pmax efficiency (80/60°C)	%	88.2	88.3	88.4	88.4	88.7
Efficiency 30% Pmax	%	92.2	91.7	91.4	91.0	90.5
Pressure drop on flue gas side	mbar	0.1	0.4	0.4	0.5	0.6
Min/Max operating pressure	bar	0.8 / 6	0.8 / 6	0.8 / 6	0.8 / 6	0.8 / 6
Elements	No.	3	4	5	6	7
Empty weight	Kg	127	166	205	244	283
CODE		**0IHJ3PWA**	**0IHJ4PWA**	**0IHJ5PWA**	**0IHJ6PWA**	**0IHJ7PWA**

** The ErP class is certified if the boilers are combined with oil burners with electric absorption ≤180 W for models ATLAS D 25 - 37 and ≤200 W for models ATLAS D 50 - 63 - 75*

> ACCESSORIES

CODE	DESCRIPTION
1KWMA11W	ADDITIONAL 2-METRE STORAGE TANK SENSOR
043005X0	ADDITIONAL 5-METRE STORAGE TANK SENSOR
013017X0	KIT FOR MANAGEMENT WITH THERMOSTAT (not supplied) OF A DHW STORAGE TANK (for heating only boilers)
013018X0	OUTDOOR PROBE

ATLAS D ECO UNIT

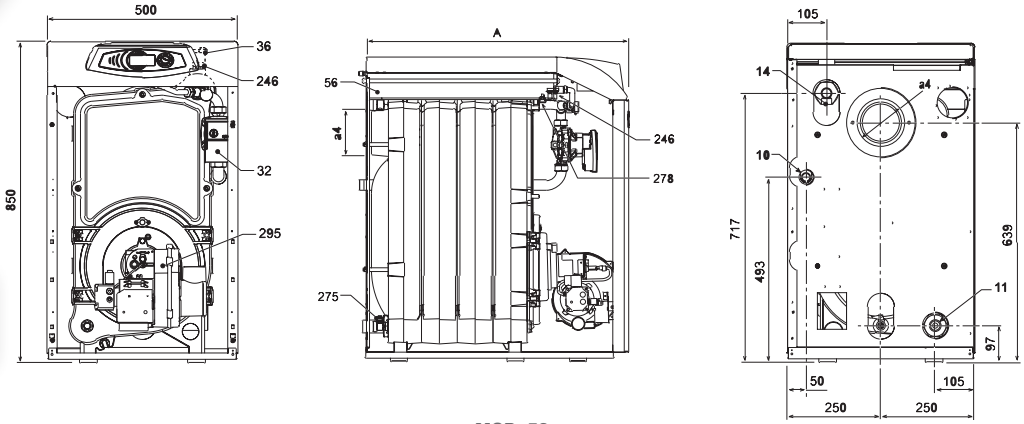
LOW NOx OIL BOILER
HEATING ONLY



> STRENGTHS:

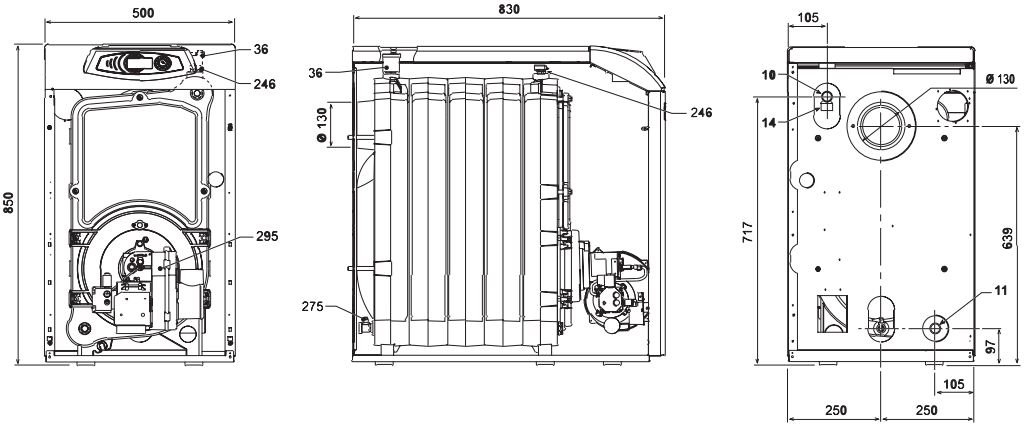
- **Floor-standing boiler** for heating, complete with low pollutant emissions oil burner
- **Cast iron body**, with preassembled **three-pass** elements with completely wet combustion chamber
- **The standard electronics** can manage, in addition to the heating pump in the boiler:
  pump (or 3-way valve) and storage tank probe for DHW production with an external storage tank
  the remote control timer or room thermostat the outdoor probe for operation in sliding temperature
- **Key-operated controls** and interface with a large **LCD screen**
- **Standard supply including** pump and expansion vessel for heating system
- **Preassembled oil burner** supplied with filter and oil line connection hoses
- **Supplied in a single parcel** packed in a wooden box

MOD. 30 - 42



MODEL	A ø mm	B mm	a4 ø mm
ATLAS D ECO 30 UNIT	630	590	120 - 130
ATLAS D ECO 42 UNIT	730	690	120 - 130

MOD. 56



> KEY

10 System delivery 3/4"
11 System return 1"
14 Safety valve
32 Heating circulating pump
36 Automatic air vent
56 Expansion tank
246 Pressure transducer
275 Heating system drain cock
278 Double sensor (Heating + Safety)
295 Burner



MODEL		30	42	56
ERP Class		B	B	B
Max heat input	kW	26.6	39.4	53.2
Max heating heat output	kW	25.0	37.0	50.0
Pmax efficiency (80-60°C)	%	93.9	95.0	94.0
Efficiency 30% Pn	%	98.2	97.4	97.3
Max heating operating pressure	bar	3	3	6
Number of elements	no.	3	4	5
Empty weight	Kg	157	196	232
CODE		**0JHL3YWA**	**0JHL4YWA**	**0JHL5YWA**

> ACCESSORIES

CODE	DESCRIPTION
1KWMA11W	ADDITIONAL 2-METRE STORAGE TANK SENSOR
043005X0	ADDITIONAL 5-METRE STORAGE TANK SENSOR
013017X0	KIT FOR MANAGEMENT WITH THERMOSTAT (not supplied) OF A DHW STORAGE TANK (for heating only boilers)
013018X0	OUTDOOR PROBE

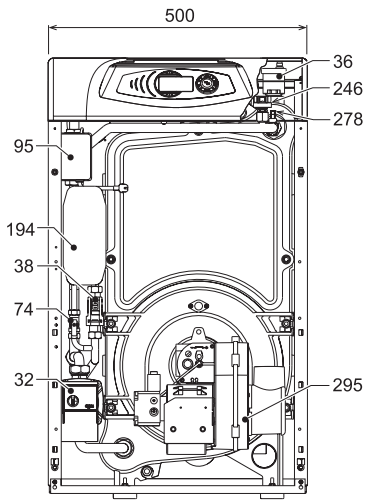
ATLAS D ECO SI UNIT

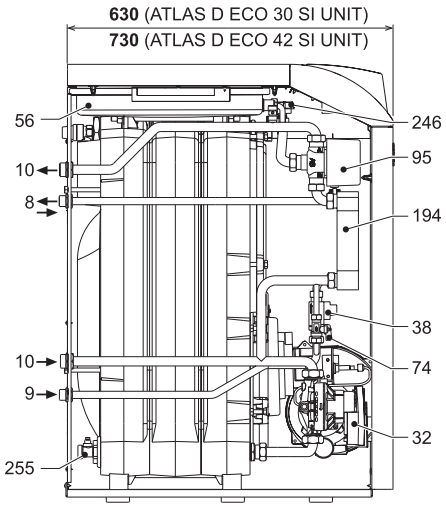
LOW NOx OIL BOILER
INSTANT COMBI

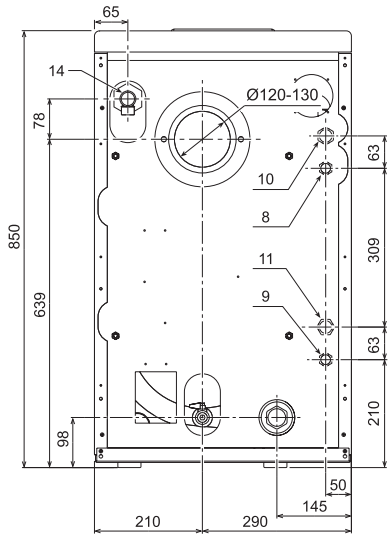


> STRENGTHS:

- Floor-standing boiler for heating and instantaneous domestic hot water production, complete with low pollutant emissions oil burner
- **Cast iron body**, with preassembled **three-pass** elements with completely wet combustion chamber
- Standard **supply**:
  Pump and expansion vessel for heating circuit
  Motorised three way valve and steel plate heat exchanger for instantaneous DHW production
- **The standard electronics** can manage:
  Remote control timer or room thermostat
  Outdoor probe for sliding temperature operating mode
  Key-operated controls and interface with a large **LCD screen**
  Preassembled oil burner supplied with filter and oil line connection hoses
- Supplied in a **single parcel** packed in a wooden box

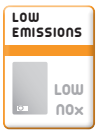












MODEL		30	42
ERP Class		B	B
	XL	B	B
Max heat input	kW	26.6	39.4
Max heating heat output	kW	25.0	37.0
Pmax efficiency (80-60°C)	%	93.9	94.0
Efficiency 30% Pn	%	98.2	97.4
Max heating operating pressure	bar	3	6
DHW flow rate Δt30°C	l/min	14.3	21.2
Number of elements	no.	3	4
Empty weight	Kg	160	200
CODE		**0LHC3YWA**	**0LHC4YWA**

> KEY

10	System delivery	**95**	Diverter valve
11	System return	**194**	DHW exchanger
14	Safety valve	**209**	DHW outlet
32	Heating circulating pump	**210**	Cold water inlet
36	Automatic air vent	**246**	Pressure transducer
38	Flow switch	**255**	System water drain
56	Expansion tank	**278**	Double sensor (Safety + heating)
74	System filling cock	**295**	Burner

> ACCESSORIES

CODE	DESCRIPTION
013018X0	OUTDOOR PROBE

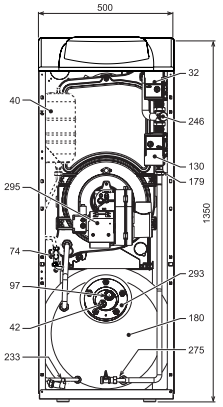
ATLAS D ECO K UNIT

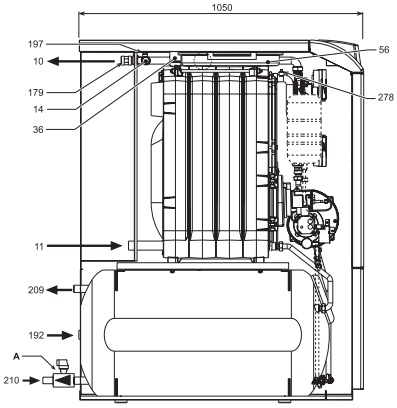
THERMAL UNIT WITH LOW NOx OIL BURNER FOR HEATING AND DOMESTIC HOT WATER PRODUCTION

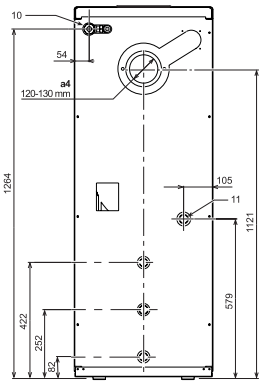


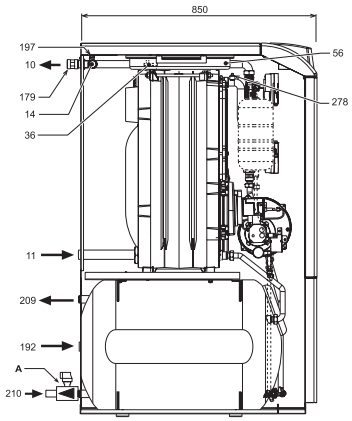
> STRENGTHS:

- **Floor-standing boiler** for heating and domestic hot water production with storage tank complete with low pollutant emissions oil burner
- **Cast iron body**, with preassembled **three-pass** elements with completely wet combustion chamber
- Storage tank in steel and glass-porcelain complete with magnesium protection anode
- **Standard supply:**
  Pump and expansion vessel for heating circuit, circulator for DHW circuit
- DHW expansion vessel and system filling valve supplied in optional kit
- **The standard electronics** can manage the remote control timer or room thermostat and the outdoor probe for sliding temperature operating mode
- **Recirculation** circuit connection
- Heating system and storage tank **drain valves**
- **Key-operated controls** and interface with a large **LCD screen**
- **Preassembled oil burner** supplied with filter and oil line connection hoses
- **Supplied in a single parcel** packed in a wooden box









> KEY

A Safety and non-return valve
A4 Fume outlet
10 System delivery - Ø 3/4"
11 System return - Ø 1"
14 Heating safety valve
32 Heating circulating pump
36 Automatic air vent
40 DHW expansion vessel
56 Expansion vessel
74 System filling cock
97 Magnesium anode
130 Hot water tank circulating pump
143 Hot water tank control thermostat
154 Condensate drain pipe
178 Hot water tank thermometer bulb
179 Non-return valve
180 Hot water tank
192 Recirculation - Ø 3/4"
197 Manual air vent
209 Hot water tank delivery - Ø 3/4"
210 Hot water tank return - Ø 3/4"
233 Hot water tank drain cock
246 Pressure transducer
275 Heating system drain cock
278 Double sensor (Heating + Safety)
293 Hot water tank inspection flange
295 Burner



MODEL			30 K 100	42 K 130
ERP Class			B	B
	XL		B	B
Max heat input		kW	26.6	39.4
Max heating heat output		kW	25.0	37.0
Pmax efficiency (80-60°C)		%	93.9	94.0
Efficiency 30% Pn		%	98.2	97.4
Max operating pressure heating		bar	6	6
DHW storage volume		l	90	117
DHW flow rate	Δt 30°C Δt 30°C	l/h l/10 min	750 195	850 250
Number of elements		no.	3	3
Empty weight		Kg	225	265
CODE			**0LHU3YWA**	**0LHU4YWA**

✱ GENERATOR SUPPLIED AS PER STANDARD WITHOUT FILLING VALVE AND DHW EXPANSION VESSEL (available with optional kit)

> ACCESSORIES

CODE	DESCRIPTION
013018X0	OUTDOOR PROBE
032007X0	DHW VESSEL KIT AND FILLING VALVE

ATLAS

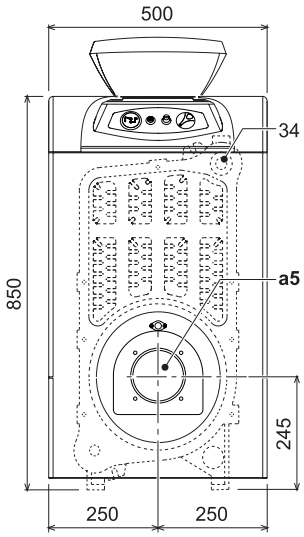
3 PASS-FLUES BOILER, FOR OIL OR GAS JET BURNER, HEATING ONLY

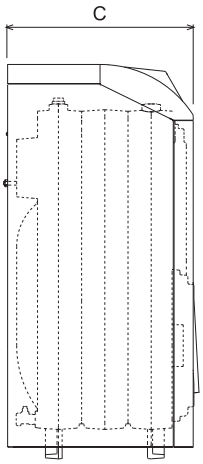


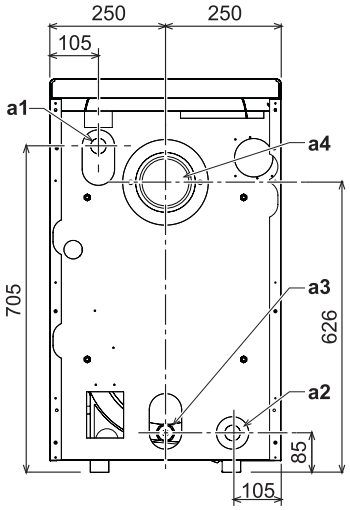
- High efficiency cast iron boiler body, featuring **3 pass** technology, insulated with high density rockwool
- **Silent** operation thanks to low flues turbulence
- Widely copes with requirements for **2 stars** efficiency according to directive 92/42 EEC, emended by Reg. 812/2013
- **Conic chimney stack**, in order to easily adapt to different tolerances of flue pipes diameters
- **Analogue** control panel with elegant fume cover
- Control board includes thermometer, ignition switch, safety thermostat with manual reset and temperature setting knob
- Stylish steel jacket painted by anaphoresis with epoxy powder

> KEY

a1 System delivery - 1" 1/2"
a2 System return - 1" 1/2"
a3 Heating system drain - 1/2"
a4 Flue connection
a5 Burner connection
34 Safety and heating temperature bulb







MODEL	C mm	a4 ø mm	a5 ø mm
ATLAS 32	400	120÷130	115
ATLAS 47	500	120÷130	115
ATLAS 62	600	120÷130	115
ATLAS 78	700	120÷130	115
ATLAS 95	800	120÷130	115



MODEL			32	47	62	78	95
Heat input	Max Heating	kW	34,9	51,6	67,7	85,6	103,2
Heat output	Max Heating	kW	32,0	47,0	62,0	78,0	95,0
Efficiency	80°C - 60°C 30% load	Pmax % %	91,7 94,3	91,1 93,5	91,5 94,0	91,1 93,5	92,0 93,8
Number of element		no.	3	4	5	6	7
Heating water content		litres	18	23	28	33	38
Heating operating pressure	Max	bar	6	6	6	6	6
Flues pressure drop		mbar	0,2	0,27	0,4	0,4	0,63
Empty weight		kg	127	166	205	244	283
Dimensions	WxHxD	mm	500x850x400	500x850x500	500x850x600	500x850x700	500x850x800
CODE			**0IHJ3AWA**	**0IHJ4AWA**	**0IHJ5AWA**	**0IHJ6AWA**	**0IHJ7AWA**

SILENT D ECO COND UNIT

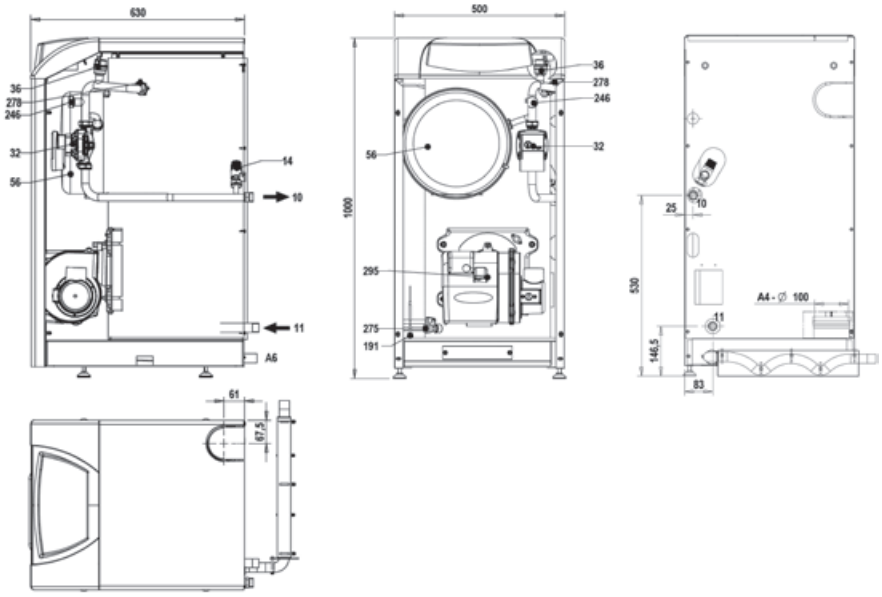
CONDENSING HEATING UNIT - HEATING ONLY WITH LOW NOX DIESEL BURNER AND STEEL BOILER BODY



HYBRID FACTORY MADE

> STRENGTHS:

- Main vertical smoke-tube heat exchanger in steel with two flue gas passes. First flue gas pass in carbon steel. Second flue gas pass (condenser) and condensate collection chamber in AISI 2205 stainless steel
- Fully water-cooled combustion chamber
- Supplied with single-stage low-emission diesel burner
- Control panel with large user-friendly display and simple, intuitive setting keys
- Complete with heating circulator, expansion vessel, 3-bar safety valve, and water pressure switch
- Supplied as a single package, in a wooden crate, including filter and flexible fuel line connections
- Weather-compensated operation with outdoor temperature sensor (optional)
- The unit's electronics can manage an external domestic hot water (DHW) storage tank (optional)
- Compatible with remote chronothermostat
- Antifreeze protection with intervention threshold at 6°C



> KEY

A4 Flue outlet Ø 100
A6 Condensate drain
10 Heating flow Ø 3/4"
11 Heating return Ø 3/4"
14 Safety valve Ø 1/2"
32 Heating pump
36 Automatic air vent
56 Expansion vessel
191 Flue gas temperature sensor
246 Pressure transducer
275 Heating circuit drain valve
278 Dual sensor (safety + heating)
295 Burner

INDOORS

MODEL		30
ERP class		A
Max heat input	kW	29.3
Max heating output (80-60°C)	kW	28.5
Max heating output (50-30°C)	kW	30.0
Efficiency at Pmax (80-60°C)	%	97.0
Efficiency at Pmax (50-30°C)	%	102.3
Efficiency at 30% nominal load	%	103.7
Max operating pressure	bar	3
Empty weight	Kg	115
CODE		**0QHZ2YKA**

SILENT D ECO COND SI UNIT

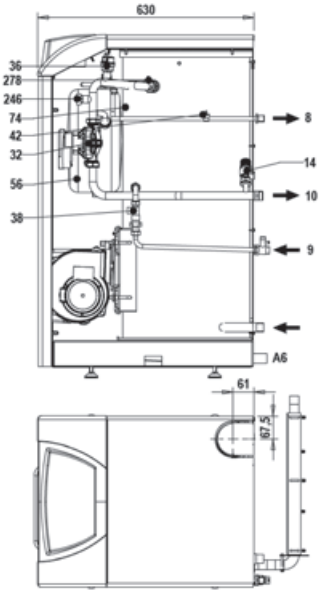
CONDENSING HEATING UNIT FOR HEATING AND DHW WITH LOW NOX DIESEL BURNER AND STEEL BOILER BODY

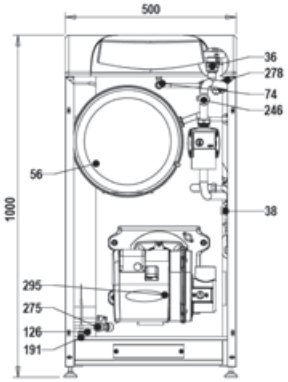


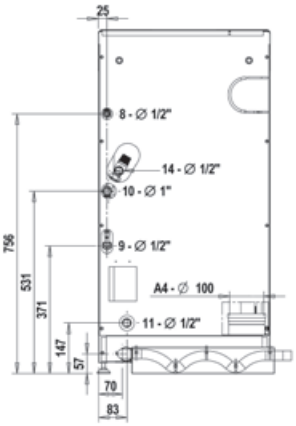
HYBRID FACTORY MADE

> STRENGTHS:

- Main vertical smoke-tube heat exchanger in steel with two flue gas passes. First flue gas pass in carbon steel. Second flue gas pass (condenser) and condensate collection chamber in AISI 2205 stainless steel
- High-efficiency DHW production through internal coil heat exchanger
- Fully water-cooled combustion chamber
- Supplied with single-stage low-emission diesel burner
- Control panel with large user-friendly display and simple, intuitive setting keys
- Complete with heating circulator, expansion vessel, 3-bar safety valve, and water pressure switch
- Supplied as a single package, in a wooden crate, including filter and flexible fuel line connections
- Weather-compensated operation with outdoor temperature sensor (optional)
- Compatible with remote chronothermostat
- Antifreeze protection with intervention threshold at 6°C







> KEY

A4 Flue outlet Ø 100
A6 Condensate drain
8 DHW outlet Ø 1/2"
9 DHW inlet Ø 1/2"
10 Heating flow Ø 3/4"
11 Heating return Ø 3/4"
14 Safety valve Ø 1/2"
32 Heating pump
36 Automatic air vent
38 Flow switch
56 Expansion vessel
74 System filling tap
191 Flue gas temperature sensor
246 Pressure transducer
275 Heating circuit drain valve
278 Dual sensor (safety + heating)
295 Burner

INDOORS

MODEL			30
ERP class			A
	XL		A
Nominal heat input (LHV)	Max heating	kW	29.3
Useful heating output (80-60°C)	Max heating	kW	28.5
(50-30°C)	Max heating	kW	30
Useful efficiency	80°C-60°C	Pmax %	97.0
	50°C-30°C	Pmax %	102.3
	30% load	Pmax %	103.7
DHW production	Δt 30°C	l/min	14.3
Operating pressure	Min / Max heating	bar	0.8 / 0.3
Empty weight		kg	115
CODE			**0QHY2YKA**

GN2 N

CAST-IRON BOILER, SUITABLE FOR INSTALLATION OF AN OIL OR GAS JET BURNER



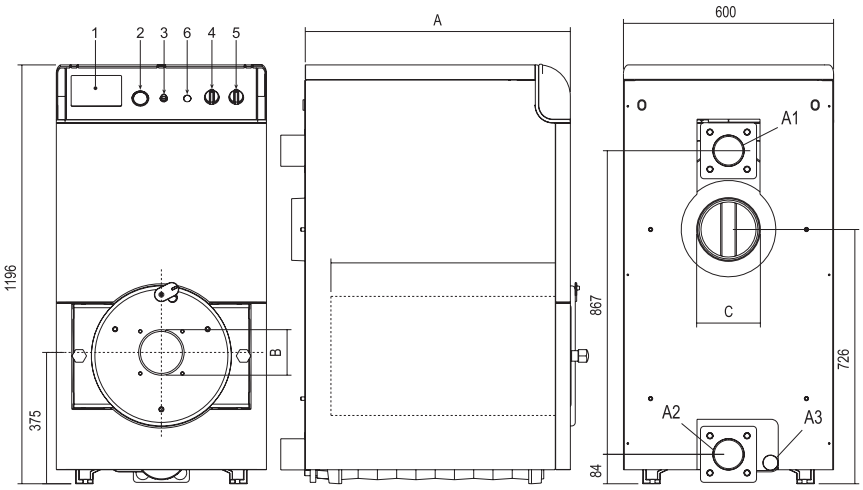
> STRENGTHS:

- High efficiency floor-standing heat generator fitted for jet burners on liquid and/or gas fuel, with **partial flame reversal** and one flue pass, cooled combustion chamber, for the production of hot water for central heating
- G20 cast-iron boiler body made from pre-assembled elements (6÷14) with steel cone inserts and boiler studs, insulated by a layer of rock wool lined by special tear-proof material.
- Control board includes: temperature and pressure gauge, overheat cut-off thermostat, switch on/off test, presetting led for the burner lockout, 2 stages regulation thermostat, lodging for an electronic controller
- Supplied in **three boxes**:
  1) boiler body in a wooden crate
  2) jacket packaged in a cardboard box
  3) instrument panel packaged in a cardboard box
- **Fitted for two-stage burners**

> KEY

1 Ready for electronic control unit
2 Thermohydrometer
3 Safety thermostat
4 Control thermostat, 2nd Stage
5 Line switch
6 Burner lockout indicator light
a1 Central heating flow outlet DN80 - 3"
a2 Central heating return inlet DN80 - 3"
a3 Boiler drain 3/4"

MODEL	A mm	B mm	C ø mm
GN2 N 05	647	130	180
GN2 N 06	757	130	180
GN2 N 07	867	130	180
GN2 N 08	977	154	200
GN2 N 09	1087	154	200
GN2 N 10	1197	154	200
GN2 N 11	1307	154	200
GN2 N 12	1417	154	200
GN2 N 13	1527	154	200
GN2 N 14	1637	154	200



REG. 812/2013

IN EUROPEAN COMMUNITY CAN BE SOLD ONLY AS A REPLACEMENT OF AN IDENTICAL MODEL

MODEL			GN 2 N 06	GN 2 N 07	GN 2 N 08	GN 2 N 09	GN 2 N 10	GN 2 N 11	GN 2 N 12	GN 2 N 13	GN 2 N 14
Heat input	Max	kW	116.0	136.9	156.5	176.0	195.6	215.2	234.7	254.3	273.9
	Min	kW	95.0	110.0	125.0	140.0	155.0	170.0	185.0	200.0	215.0
Heat output	Max	kW	107.0	126.0	144.0	162.0	180.0	198.0	216.0	234.0	252.0
	Min	kW	87.0	101.0	115.0	129.0	143.0	157.0	171.0	185.0	199.0
Number of elements		no.	6	7	8	9	10	11	12	13	14
Water content		dm^3	57	65	73	81	89	97	105	113	121
Combustion chamber	volume	dm^3	77.0	91.0	104.0	118.0	132.0	146.0	160.0	174.0	187.0
Heating operating pressure	Max	bar	6	6	6	6	6	6	6	6	6
Pressure drop:											
combustion chamber		Δp mbar	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
hydraulic		ΔT 20°C	-	0.5	0.8	1.8	2.2	2.6	3.2	4.0	4.5
Boiler body weight		kg	361	412	463	514	565	616	670	725	780
Dimensions	A4	mm	180		200						
	WxHxD	mm	600x1196x757	600x1196x867	600x1196x977	600x1196x1087	600x1196x1197	600x1196x1307	600x1196x1417	600x1196x1527	600x1196x1637
CODE			0I7J6BWA	0I7J7BWA	0I7J8BWA	0I7J9BWA	0I7JABWA	0I7JBBWA	0I7JCBWA	0I7JDBWA	0I7JEBWA

GN4 N

CAST-IRON 3 PASS-FLUES BOILER, SUITABLE FOR INSTALLATION OF AN OIL OR GAS JET BURNER



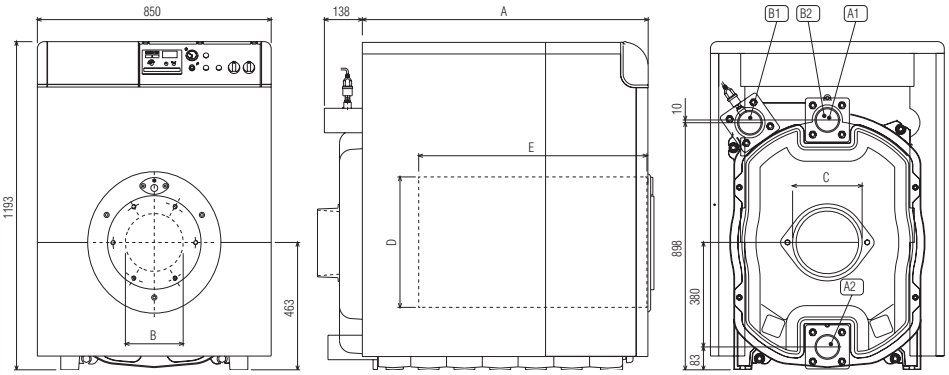
> STRENGTHS:

- High efficiency heat generator for liquid or gas fuel, **three flue passes**, cooled combustion chamber, for the production of hot water for central heating, suitable for operation either connected to a **traditional system** or connected to a **low temperature heating system**, with a minimum return temperature of 35°C
- G20 cast-iron boiler body made of sections to be assembled when installing the generator in the boiler room
- **Fitted for two-stage burners**
- Control board includes: thermometer, safety thermostat, 2 stages thermostat with presetting for indication leds, boiler switch, lodging for eventual flues thermostat and electronic controller

> KEY

a1 Central heating flow outlet DN80 - 3"
a2 Central heating return inlet DN80 - 3"
B1 Central heating flow outlet DN80 - 3" (Low temperature)
B2 Central heating flow outlet DN80 - 3" (Low temperature)

MODEL	A mm	B ø mm	C ø mm	D ø mm	E mm
GN4 N 07	1040	210	180	500	880
GN4 N 08	1170	210	180	500	1010
GN4 N 09	1300	210	250	500	1140
GN4 N 10	1430	210	250	500	1270
GN4 N 11	1560	210	250	500	1400
GN4 N 12	1690	210	250	500	1530
GN4 N 13	1820	210	250	500	1660
GN4 N 14	1950	210	250	500	1790



SPECIFIC OPTION: 037000X0 section assembling tool for cast iron boilers

*

REG. 812/2013

*** FOR GN4 N 07÷10, IN EUROPEAN COMMUNITY CAN BE SOLD ONLY AS A REPLACEMENT OF AN IDENTICAL MODEL**

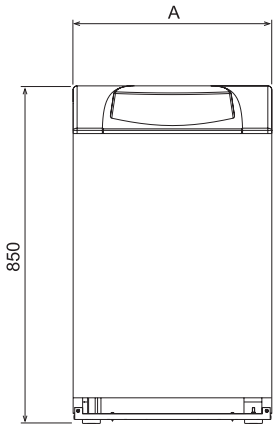
MODEL			GN 4 N 07	GN 4 N 08	GN 4 N 09	GN 4 N 10	GN 4 N 11	GN 4 N 12	GN 4 N 13	GN 4 N 14
Heat input	Max Min	kW kW	217 128	270 170	324 192	388 229	452 266	516 309	600 352	695 416
Heat output	Max Min	kW kW	200 120	250 150	300 180	360 215	420 250	480 290	560 330	650 390
Efficiency	30%	Pmax % %	92.2 95.4	92.9 96.0	92.6 96.5	92.8 97.1	92.9 97.1	93.0 97.2	93.3 97.3	93.5 97.3
Number of elements		no.	7	8	9	10	11	12	13	14
Water content		dm^3	143	163	183	203	223	243	263	283
Combustion chamber	volume	dm^3	161.3	185.1	208.9	232.8	256.6	280.4	304.3	328.1
Heating operating pressure	Max	bar	6	6	6	6	6	6	6	6
Pressure drop: combustion chamber hydraulic		Δp mbar ΔT 20°C	0.5 20	0.8 30	0.7 42	1.0 54	1.4 65	1.7 77	2.6 88	3.5 100
Boiler body weight		kg	940	1050	1170	1270	1400	1510	1630	1740
Dimensions	WxHxD	mm	850x1193x1040	850x1193x1170	850x1193x1300	850x1193x1430	850x1193x1560	850x1193x1690	850x1193x1820	850x1193x1950
CODE			**0I9J7CWA**	**0I9J8CWA**	**0I9J9CWA**	**0I9JACWA**	**0I9JBCWA**	**0I9JCCWA**	**0I9JDCWA**	**0I9JECWA**

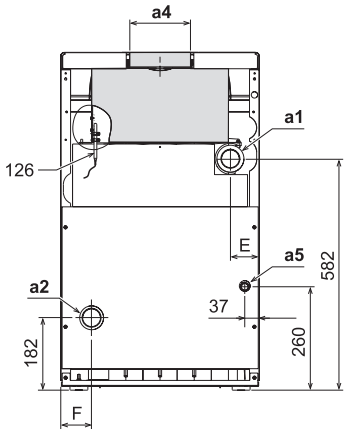
PEGASUS T

CAST IRON ATMOSPHERIC GAS BOILER, HEATING ONLY, PILOT IGNITION



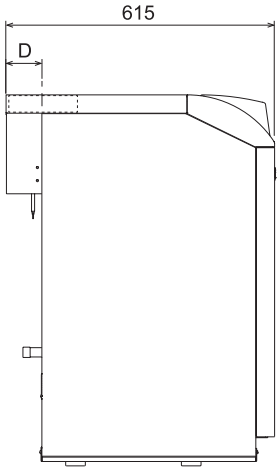
- Boiler body made of assembled **G 20 cast iron sections**, generously insulated by a rockwool layer externally lined with tearproof material
- Atmospheric burner in stainless steel with **pilot ignition and termocouple**
- **Analogue control panel** protected with a flip cover
- Control board includes thermometer, pressure gauge, ignition switch, safety thermostat with manual reset and temperature setting knob
- **Oversize 1" ½ F system flow and return connections**
- Steel casing painted white by anaphoresis using epoxy powder paint
- Easy access to combustion assembly and stack, simply removing casing (fixed with quick pressure clips) and respective insulation
- Boiler is supplied packed inside a robust wooden crate

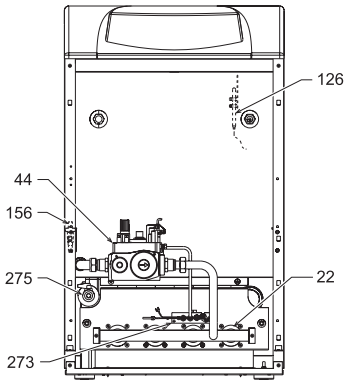




> KEY

22 Main burner
44 Gas valve
126 Fume thermostat
156 Piezoelectric igniter
273 Pilot burner assembly
275 Heating system drain cock





MODEL	A mm	D mm	E mm	F mm	a1 flow	a2 return	a4 flue	a5 gas inlet
PEGASUS 35 T	500	70	116	119	1" 1/2	1" 1/2	130	1/2"
PEGASUS 45 T	500	80	73	76	1" 1/2	1" 1/2	150	1/2"

EXTRA UE

MODEL			T 35	T 45
Heat input	Max Heating Min	kW kW	38,8 14,9	49,5 19,7
Heat output	Max Heating Min	kW kW	35,0 13,0	45,0 17,2
Efficiency	80°C - 60°C 30%	Pmax % %	90,9 91,5	90,9 91,6
Number of elements		no.	4	5
Heating water content		litres	11,6	14,1
Heating operating pressure	Max	bar	6	6
Empty weight		kg	136	164
Dimensions	WxHxD	mm	500x850x615	500x850x615
CODE			**0E4K4RWA**	**0E4K5MWA**

PEGASUS D 23 - 32 - 45

CAST IRON ATMOSPHERIC GAS BOILER, HEATING ONLY



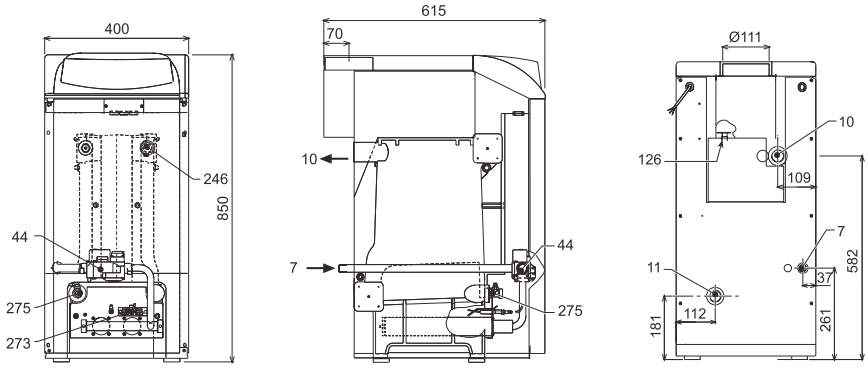
- Stainless steel atmospheric burner and gas valve with adjustable output according to the installation's requirement
- Management of optional external storage cylinder, with legionella protection
- System **flow temperature compensation** (with installation of optional outdoor probe)
- Wide backlit **LCD** interface with button control
- Can be connected with **remote control** (optional)
- **Frost protection** system
- Available as optional pump and expansion vessel kit

> KEY

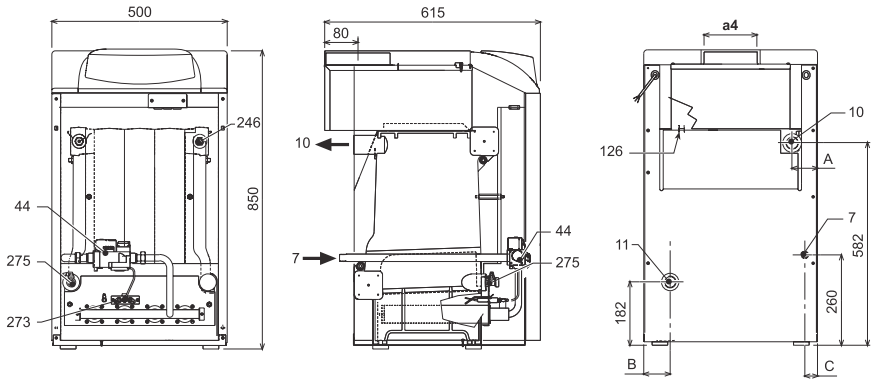
7 Gas inlet - Ø 1/2"
10 System delivery - Ø 1" 1/2
11 System return - Ø 1" 1/2
44 Gas valve
126 Fume thermostat
246 Pressure transducer
273 Pilot light unit
275 Heating system drain cock

SPECIFIC ACCESSORIES		CODE
Kit including: pump, 14 lts. CH expansion vessel, 1/2" F-F 3 bar safety valve		022002X0
Probe for DHW tank	2 mts	KWMA11W
	5 mts	043005X0
Kit for handling DHW storage by means of a (not supplied) thermostat		013017X0

PEGASUS D 23



PEGASUS D 32 - 45



MODEL	A	B	C	a4
PEGASUS 32 D	116	119	47	Ø 131
PEGASUS 45 D	73	73	36	Ø 151

MODEL			D 23	D 32	D 45
Heat input	Max Heating Min	kW kW	25,3 10,1	34,9 14,9	49,5 19,7
Heat output	Max Heating Min	kW kW	23,0 8,8	32,0 13,0	45,0 17,2
Efficiency	80°C - 60°C 30%	Pmax % %	90,9 91,3	91,7 91,5	90,9 91,6
Number of elements		no.	3	4	5
Heating water content		litres	9,1	11,6	14,1
Heating operating pressure	Max	bar	6	6	6
Empty weight		kg	106	136	164
Dimensions	WxHxD	mm	400x850x615	500x850x615	500x850x615
CODE			**0E4L3AWA**	**0E4L4AWA**	**0E4L5AWA**

PEGASUS

CAST-IRON ATMOSPHERIC GAS BOILER, HEATING ONLY



- Boiler body made of assembled **G20 cast iron sections**, generously insulated by a rockwool layer externally lined with tearproof material
- Atmospheric burner with AISI 304 steel heads, electronic ignition with intermittent pilot flame and safety device detecting the ionisation current produced by the flame
- Variable heat input, with **two-stages** operation (except model 56)
- Flues collector with semi-integrated antirefouleur and flues test point
- For smaller boilers (56÷107 kW) element with factory name "B.A.G. 21" is used, whereas for higher outputs (119÷289 kW) a bigger element (namely "LS3") is used
- Efficient operation thanks to the **large heat exchange surface** of the cast-iron section, and the generous insulation of the boiler body
- Possibility to install the modules in cascade with a side-by-side or back-to-back layout
- Steel casing painted white by anaphoresis using epoxy powder paint
- Control board is **preset** for integration of an electronic controller

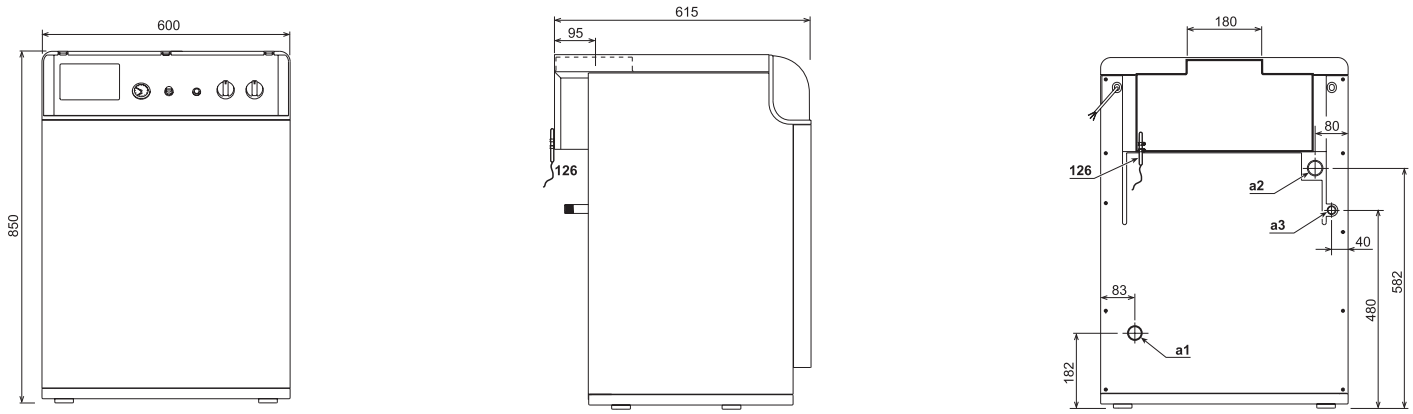


Element
mod. 119÷289
Type LS3

EXTRA UE

MODEL			56	67	77	87	97	107	119	136	153	170	187	221	255	289
Heat input	Max	kW	61,6	73,3	84,2	95,2	106,0	117,0	131,0	149,0	168,0	187,0	206,0	243,0	280,0	317,0
	Min	kW	24,5	31,0	35,7	40,3	45,0	49,0	77,0	89,0	100,0	110,0	122,0	144,0	166,0	188,0
Heat output	Max	kW	56,0	67,0	77,0	87,0	97,0	107,0	119,0	136,0	153,0	170,0	187,0	221,0	255,0	289,0
	Min	kW	21,6	27,3	31,4	35,5	39,6	43,0	71,0	82,0	92,0	102,0	112,0	133,0	153,0	173,0
Efficiency	80-60°C	Pmax %	90,9	91,4	91,5	91,4	91,5	91,5	91,2	91,3	91,4	91,5	91,6	91,7	91,9	92,0
Number of elements		no.	6	7	8	9	10	11	8	9	10	11	12	14	16	18
Operating temperature	Max	°C	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Heating operating pressure	Max	bar	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Heating water content		litres	16,6	19,1	21,6	24,1	26,6	29,1	38	42	46	50	54	62	70	78
Depth		mm	83	760	760	760	760	760	760	1050	1050	1050	1050	1050	1050	1050
Height		mm	600	760	850	930	1020	1100	930	1020	1100	1190	1270	1440	1610	1780
Width		mm	850	970	970	970	970	970	1050	1050	1050	1050	1050	1050	1050	1050
CODE			0E4L6AWA	0E4L7AWA	0E4L8AWA	0E4L9AWA	0E4LAAWA	0E4LBAWA	0E2L8AWA	0E2L9AWA	0E2LAAWA	0E2LBAWA	0E2LCAWA	0E2LEAWA	0E2LGAWA	0E2LIAWA

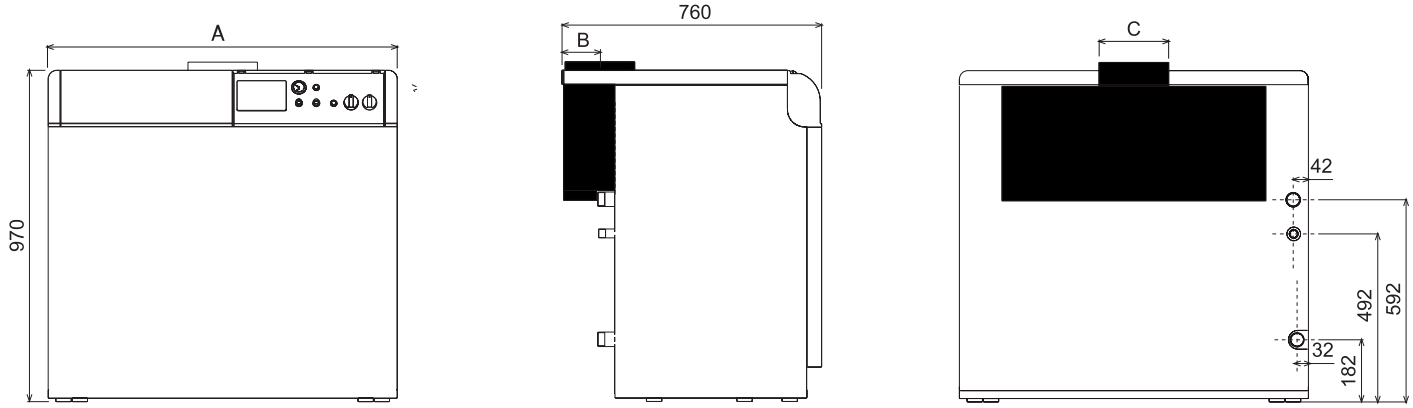
PEGASUS 56



> KEY

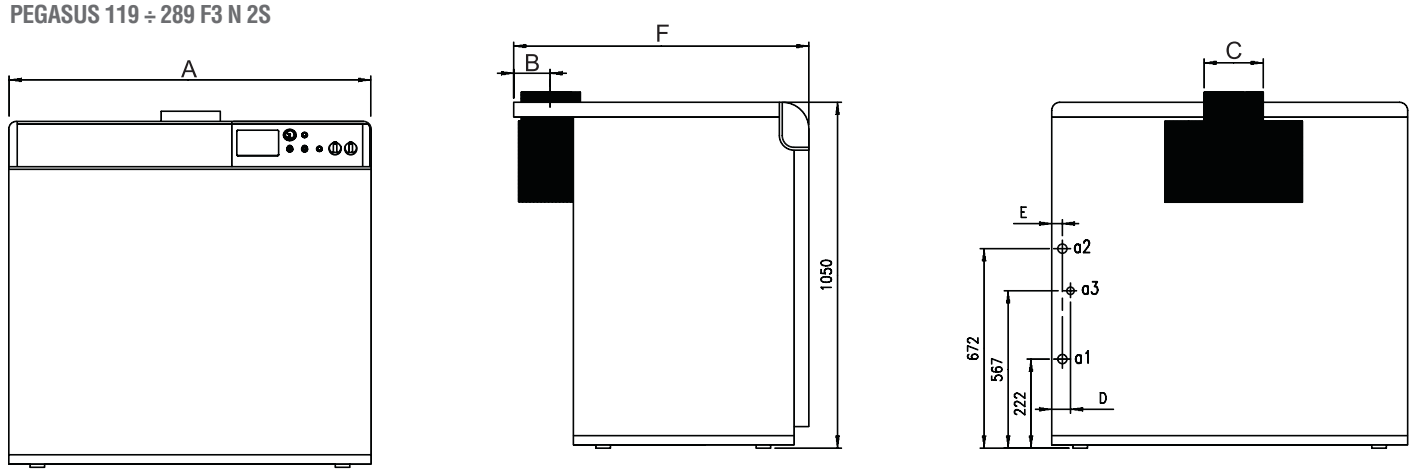
1 System delivery - Ø 1"1/2
a2 System return - Ø 1"1/2
a3 Gas inlet

PEGASUS 67 ÷ 107 2S



MODEL	A mm	B mm	C mm	a1 heating return	a2 heating delivery	a3 gas inlet
PEGASUS 67 2S	760	100	180	1" 1/4	1" 1/4	3/4"
PEGASUS 77 2S	850	110	200	1" 1/4	1" 1/4	3/4"
PEGASUS 87 2S	930	110	200	1" 1/4	1" 1/4	3/4"
PEGASUS 97 2S	1020	110	200	1" 1/4	1" 1/4	3/4"
PEGASUS 107 2S	1100	120	220	1" 1/4	1" 1/4	3/4"

PEGASUS 119 ÷ 289 F3 N 2S



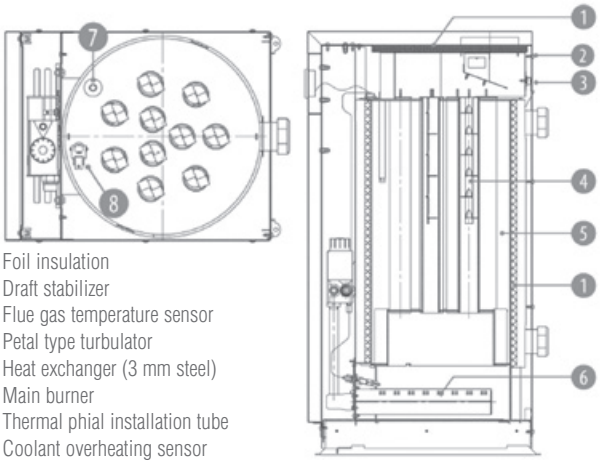
MODEL	A mm	B mm	C mm	D mm	E mm	F mm	a1 heating return	a2 heating delivery	a3 gas inlet
PEGASUS F3 N 119 2S	930	133	220	50	42	1050	2"	2"	1"
PEGASUS F3 N 136 2S	1020	148	250	53	45	1050	2"	2"	1"
PEGASUS F3 N 153 2S	1100	148	250	58	43	1050	2"	2"	1" 1/2
PEGASUS F3 N 170 2S	1190	173	300	60	46	1050	2"	2"	1" 1/2
PEGASUS F3 N 187 2S	1270	173	300	58	44	1050	2"	2"	1" 1/2
PEGASUS F3 N 221 2S	1440	173	300	57	45	1050	2"	2"	1" 1/2
PEGASUS F3 N 255 2S	1610	198	350	62	46	1100	2"	2"	1" 1/2
PEGASUS F3 N 289 2S	1780	198	350	66	49	1100	2"	2"	1" 1/2

TORINO

FLOOR-STANDING GAS BOILER WITH STEEL HEAT-EXCHANGER



- Non-volatile boiler. **Does not require external electricity connection**
- Heat carrier max working pressure - 3 bar
- Designed for operation in open and closed heating systems. and for use with forced or natural circulation
- High efficiency
- Completed with SIT gas blocks: 7.5-16 kW (SIT 630); 20-30 kW (SIT 710); 35-100 (SIT 820)
- Tube heat exchanger made of an alloy of high-quality cold-rolled steel with a thickness of 3 mm
- IMIT thermometer
- SIT pilot burner
- Gas supply tube for pilot burner with an increased bore of D = 6 mm
- RUSIT burners made of heat-resistant stainless steel with improved combustion properties;
- Convenient installation due to bilateral gas supply. Convenient maintenance due to quick-detachable facing panels, special fastening of smoke collector for convenient maintenance of the boiler gas duct
- Possibility to function on liquefied gas. Operation: 15 years
- All the boilers are equipped with a safety system



1 Foil insulation
2 Draft stabilizer
3 Flue gas temperature sensor
4 Petal type turbulator
5 Heat exchanger (3 mm steel)
6 Main burner
7 Thermal phial installation tube
8 Coolant overheating sensor

MODEL		7.5	10	12.5	16	20	25	30	35	40	50	60	80	100
Rated heat output	kW	7.5	10	12.5	16	20	25	30	35	40	50	60	80	99
Approximate area of heated space, with height of 2.7 m	m^2	≤ 70	≤ 100	≤ 120	≤ 160	≤ 200	≤ 250	≤ 300	< 350	< 400	< 500	< 600	< 800	< 1000
Efficiency, not less than	%	90												
Max consumption of natural gas	m^3/h	0.81	1.16	1.44	1.78	2.3	2.8	3.4	3.9	4.5	536	6.7	9.0	10.9
Max thermal output of gas burner	kW	8	11.4	14.2	17.6	22.7	27.7	33.6	38	44	55	66	88	107
Temperature regulation range of heat carrier	°C	40 - 90												
Max coolant temperature at the boiler outlet °C, within	°C	95												
Maximum working pressure of heat carrier in heating system, within	MPa (KGF/ cm^2)	0.3 (3)												
Nom pressure of natural gas	Pa	1300												
Max pressure of natural gas	Pa	3000												
Min pressure of natural gas	Pa	600												
Discharge behind the boiler	Pa	5 - 40												
Connecting thread of heat-carrier connections	inches	G 1/2				G 2								
Connecting thread of gas supply fittings	inches	G 1/2						G 3/4						G 2
Diameter of smoke collector outlet pipe	mm	95	95	115	115	135	135	155	155	155	215	215	235	235
Heat carrier volume within boiler	lt	28	27	30	28	41	39	37	56	55	76	75	128	134
Weight	kg	45	46	55	57	74	79	81	107	110	133	137	205	260
Chimney recommended height	m	5												
Chimney recommended diameter	mm	100	100	120	120	140	140	160	160	160	220	220	240	240
CODE		**0QN004YA**	**0QN005YA**	**0QN006YA**	**0QN007YA**	**0QN008YA**	**0QN009YA**	**0QN010YA**	**0QN011YA**	**0QN012YA**	**0QN013YA**	**0QN014YA**	**0QN015YA**	**0QN016YA**

HYBRID SYSTEMS & HEAT PUMPS

OMNIA S HYBRID C

R32 AIR-TO-WATER REVERSIBLE HYBRID HEAT PUMPS FOR SPLIT INSTALLATION WITH INSTANT PRODUCTION OF DHW





HYBRID FACTORY MADE

R32 GAS
R32

> MAIN FEATURES:

The OMNIA S HYBRID C 3.2 hybrid heat pumps combine **R32 eco-friendly heat pump technology** and **the condensation boiler** with the instant production of DHW in a single compact product.
The eco-friendly **R32** gas combines high efficiency with a reduced environmental impact. Thanks to its **GWP of 675,** about a third compared to the GWP of R410a, it helps to reduce emissions of CO_2, which are the main cause of global warming.
The Ferroli hybrid systems are the **ideal solution for replacing old generators, even on high-temperature systems with radiators**, thanks to the integration of the boiler.
The compact size, similar to that of a wall-hung boiler, **makes it easier to replace without significant loss of space** or the need for major restructuring work.
By running the boiler or heat pump as the climatic conditions vary, the internal electronics **optimise the output of the system** by constantly operating **in the most economic and efficient mode possible**, with excellent benefits for the end user.
The boiler will be free to **produce instant DHW** even during heat pump heating or cooling operations, thereby **maximising the comfort levels**. In the unlikely event that the heat pump is blocked, the boiler will still be able to operate autonomously in backup mode, **thus guaranteeing heating and the production of DHW**.
The system consists of a **Full DC inverter external unit,** available with a choice of 4 different powers, **associated with the hybrid internal and condensation unit with an integrated hydronic module, including a DC inverter pump** to manage the cooling circuit. The system is **extremely versatile** and capable of operating in **harsh climate conditions up to -20°C outdoors. It avoids the risk of freezing** thanks to a split cooling circuit.
Wall flue gas exhaust in the cases pertaining to Italian Leg. Decree no. 102 of 4 July 2014.

> FEATURES OF THE OUTDOOR UNIT:

- Approved for **external use in completely exposed site**
- Powered by **R32 eco-friendly gas** with low environmental impact
- **Inrush current and reduced noise** thanks to Full inverter technology
- **Compressor with twin rotary DC INVERTER motor** on vibration damping supports and wrapped in double layer of soundproofing material to minimise vibrations and noise
- **Axial** fans with **DC brushless** motor including protective grilles
- **External air temperature probe pre-installed on the unit.**

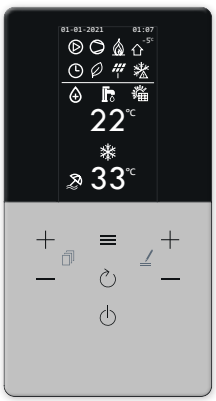
> FEATURES OF THE INDOOR UNIT:

- Sturdy and **suitable** for **replacing particularly critical systems**
- **Combustion module with a 1:10 modulation range and extra-thick stainless steel heat exchanger with larger channels** to maintain high efficiency even on old oxidised and soiled systems
- Standard supply with squared system supply and return valves (with easy-access filter for inspection)
- **M.G.R: Methane, LPG, Propane-air Ready**, with a simple configuration, the boiler can run on natural gas, LPG and a propane-air mixture without the use of any additional conversion kits
- **MC²: Multi Combustion Control**, combustion system with patented gas-adaptive technology for improved adaptability of use to variations in the gas supply conditions (e.g. pressure fluctuations or drops)
- **F.P.S: Flue gas protection system.** The standard flue gas check valve offers easy connection to pressurised collective flue systems
- **Particularly suited to operating in flues requiring "heavy-duty" pipes** thanks to approval for **operation with flue gas exhaust pipes with a diameter of 50mm**

> THE CONTROL SYSTEM

- The interface features Capsense **technology** with a 2.8" graphic display for user-friendly, practical interaction. The on-board machine interface communicates seamlessly with the new **Connect CRP** smart systems, which can control **up to 8 thermostats** (of which 7 are **Connect CRP Zones**), divided into 2 zones, one direct and one mixed.
- **MODBUS PROTOCOL** for smart control via an external BMS
- **HEATING AND COOLING** with Ferroli Full Inverter modulation which allows you to set the temperature curve to reduce consumption and improve user comfort.
- **SMART GRID INPUT FROM PHOTOVOLTAIC SYSTEM AND POWER GRID** Smart Grid contacts to optimise consumption and save on energy bills. Consult the manuals for more details
- **REMOTE CONTROL VIA APP.** Available for iOS and Android using the Connect CRP (optional)
- **SILENT PDC MODE.** Reduces the maximum compressor frequency and fan speed, thus significantly reducing noise levels.
- **ON/OFF and SUMMER/WINTER** from external contacts. The unit can be switched on and off via an external contact, by receiving summer/winter switching signals (e.g. from the zone thermostat). The operating mode will follow the controller settings
- **ECO.** Dedicated setpoint for "Eco" mode. Can be set with a daily time slot
- **WEEKLY HOURLY PROGRAMMING.** The Connect CRP (optional) allows differentiated hourly programming for each day of the week, defining the mode (COOL/WARM/DHW) and operating setpoints for each time slot.

2.8" GRAPHIC INTERFACE WITH CAPSENSE TECHNOLOGY



OMNIA S 3.2 HY C		04	06	08	10
ERP class in heating / Seasonal efficiency average temperature (produced water 35°C)	Class / ηs (%)	A 187	A 191	A 200	A 201
ERP class in heating / Seasonal efficiency low temperature (produced water 55°C)	Class / ηs (%)	A 128	A 136	A 130	A 135
PRATED (low temperature 35°C)	kW	5.50	6.80	8.10	9.20
SCOP (low temperature 35°C)	W/W	4.75	4.85	5.08	5.10
PRATED (medium temperature 55°C)	kW	4.40	5.70	6.60	7.70
SCOP (medium temperature 55°C)	W/W	3.29	3.49	3.34	3.47
SEER (produced water 7°C)	W/W	4.99	5.34	5.83	5.98
Power supply	V-ph-Hz	220/240-1-50			
Type and no. of compressors	-	1 x Twin Rotary DC			
Refrigerant fittings - liquid line	Ø	1/4" SAE / Ø 6.35		3/8" SAE / Ø 9.52	
Refrigerant fittings - gas line	Ø	5/8" SAE / Ø 15.88			
Indoor unit expansion vessel volume	L	8			
SWL - outdoor* / indoor* unit sound power level	dB(A)	56 / 39	58 / 39	59 / 39	60 / 39
Outdoor / indoor unit weight	kg	58 / 43		77 / 43	

NOTE: The products comply with the European ErP Directive (Directive 2009/125/EC) and the relevant European Regulations (EU 811/2013). The values refer to units without any optional features or accessories.
SWL = Sound Power Levels, referred to 1×10^{-12} W, with the unit operating under **A7W35** conditions. The Total Sound Power Level in dB(A) is measured in accordance with ISO 9614. The Total Sound Power Level in dB(A) is therefore the only binding acoustic value. Sound pressure levels are calculated values derived from the sound power level (SWL) by applying ISO 3744 relationships. Values obtained in accordance with standards EN 14511:2022 and EN 14825:2022.

PERFORMANCE DATA			04	06	08	10
A7W35	Nominal heat output	kW	4.20	6.35	8.40	10.0
	Nominal input power	kW	0.82	1.28	1.63	2.02
	COP	W/W	5.10	4.95	5.15	4.95
A7W45	Nominal heat output	kW	4.30	6.30	8.30	10.0
	Nominal input power	kW	1.13	1.70	2.16	2.67
	COP	W/W	3.80	3.70	3.85	3.75
A35W18	Designed cooling capacity	kW	4.50	6.50	8.30	9.90
	Nominal input power	kW	0.82	1.35	1.64	2.18
	EER	W/W	5.50	4.80	5.05	4.55
A35W7	Designed cooling capacity	kW	4.70	6.50	7.45	8.20
	Nominal input power	kW	1.36	2.17	2.22	2.52
	EER	W/W	3.45	3.00	3.35	3.25

The values refer to a unit without any optionals or accessories. Data declared according to **EN 14511**: **EER** (Energy Efficiency Ratio) = ratio of cooling power to input power **COP** (Coefficient Of Performance) ratio of heat output to input power **A7W35** = source: air in 7°C d.b. 6°C w.b. / system: water in 30°C out 35°C **A7W45** = source: air in 7°C d.b. 6°C w.b. / system: water in 40°C out 45°C **A35W18** = source: air in 35°C d.b. / system: water in 23°C out 18°C **A35W7** = source: air in 35°C d.b. / system: water in 12°C out 7°C **NOTES:** Efficiency class calculated according to the European regulation **811/2013**.

OMNIA S 3.2 HY C PERFORMANCE		04	06	08	10
Max/min thermal output in heating (Hi)	kW	24.5 / 2.9			
Max/min thermal output in heating (80/60°C)	kW	24 / 2.8			
Max/min thermal output in heating (50/30°C)	kW	26 / 3.1			
Max/min thermal output in DHW (Hi)	kW	28.5 / 3.2			
Max/min thermal output in DHW	kW	28.0 / 2.8			
Pmax/Pmin efficiency (80-60°C) (Hi)	%	98.1 / 98			
Pmax/Pmin efficiency (50-30°C) (Hi)	%	106.1 / 107.5			
Efficiency 30% (Hi)	%	109.7			
Max/min working pressure in heating	bar	3 / 0.8			
Max/min working pressure in DHW	bar	9 / 0.3			
DHW flow rate Δt 25°C / 30°C	l/min	16.1 / 13.4			
E.U. + I.U. CODE (*)		**0XHK4EWA**	**0XHK6EWA**	**0XHK8GWA**	**0XHKAEWA**
		0XHK4FWA	**0XHK6FWA**		
		0XHK4GWA	**0XHK6GWA**	**0XHK8EWA**	**0XHKAGWA**

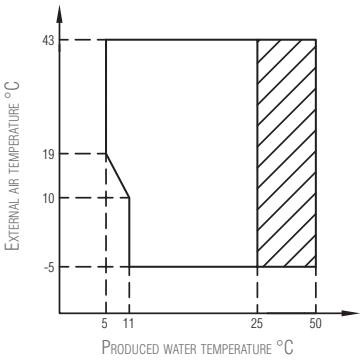
(*) The code will be confirmed during the order phase based on the commercial back office availability

OPTIONAL ACCESSORIES		CODE
	Galvanised normal template	046053X0
	Hydraulic kit consisting of gas tap, water inlet tap, connection pipes/fittings	012050W0
	Attachment cover kit for aesthetic cover of wall-mounted hydraulic connections	016009X0
	Connect CRP	013069XA
	Connect CRP Zones	013055XA

OPTIONAL ACCESSORIES		CODE
	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensation boilers	041084X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensation boilers	041006X0
	coupling for vertical coaxial pipe ø 100/60 mm for condensation boilers	041083X0
	Twin pipe 80/80 discharge kit for condensation boilers, including test points	041082X0
	Rubber anti-vibration kit for outdoor unit	2CP000ZF
	System flow temperature probe or for hybrid solar/hybrid system integration	2CP000NF

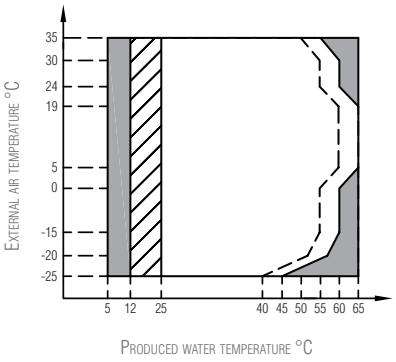
OPERATING LIMITS

COOL MODE



Operating range with heat pump with possible limitation and protection

WARM MODE



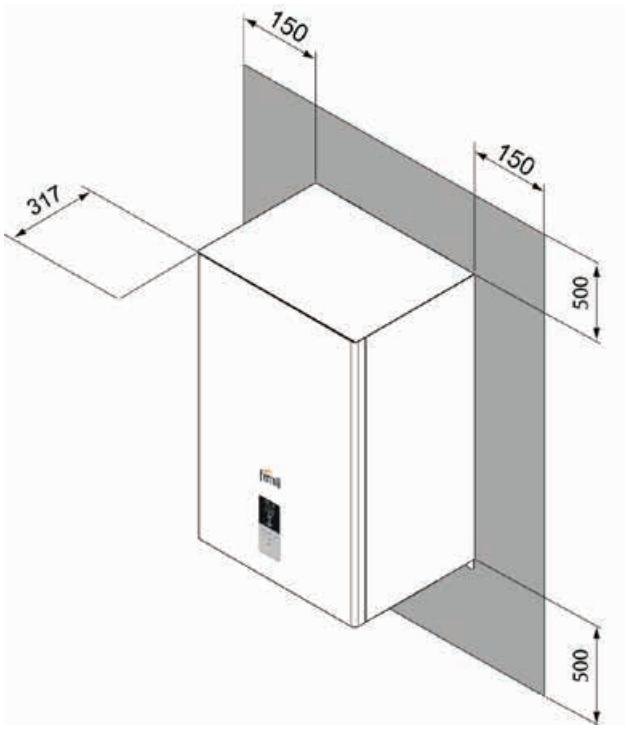
Operating range with heat pump with possible limitation and protection

With IBH (internal backup heater) installed

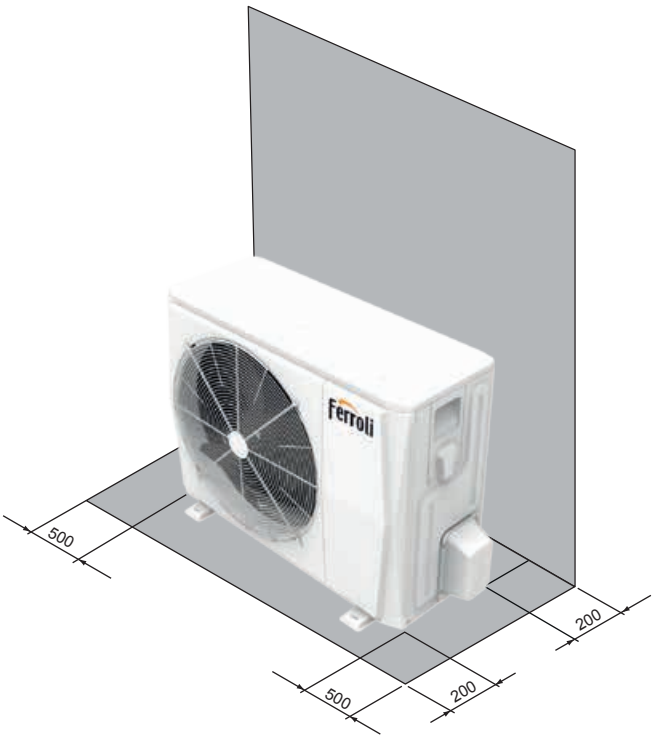
Maximum inlet water temperature for heat pump operation

MINIMUM WORKING SPACES (in mm)

INDOOR UNIT

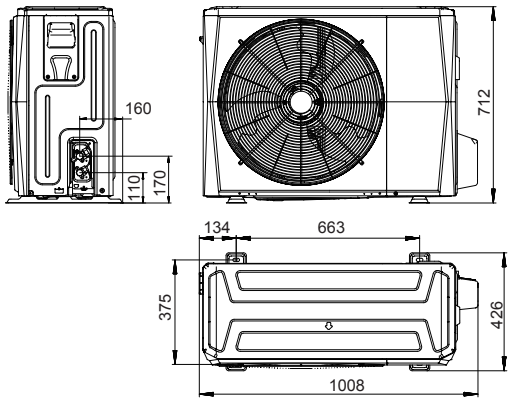


OUTDOOR UNIT

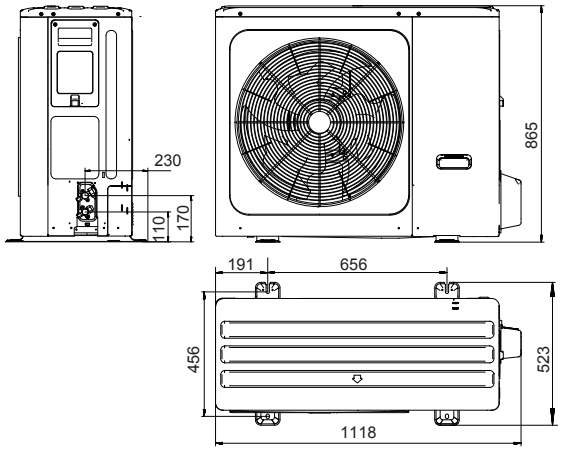


OVERALL DIMENSIONS OF OUTDOOR UNIT (in mm)

mod. 4 - 6

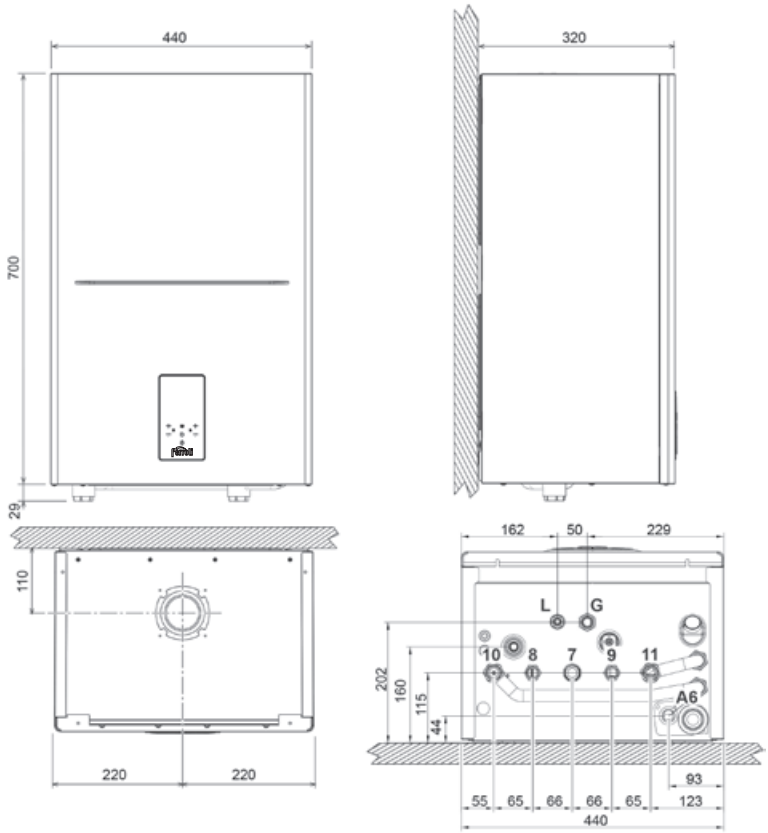


mod. 8 - 10



MODELS		4	6	8	10
Packaging (WxHxD)	mm	1065x800x485		1190x970x560	
Packaging weight	kg	65		94	

OVERALL DIMENSIONS OF INDOOR UNIT (in mm)



> LEGEND

7	Gas inlet - Ø 3/4"
8	DHW outlet - Ø 1/2"
9	DHW inlet - Ø 1/2"
10	System delivery - Ø 3/4"
11	System return - Ø 3/4"
A6	Condensate drain connection
L	Liquid line
G	Gas line

OMNIA S HYBRID H

R32 AIR-TO-WATER REVERSIBLE HYBRID HEAT PUMPS FOR SPLIT INSTALLATION, WHICH CAN BE COMBINED WITH AN EXTERNAL DHW HEATER





HYBRID FACTORY MADE

R32 GAS
R32

> MAIN FEATURES:

The OMNIA S HYBRID H 3.2 hybrid heat pumps combine **R32 eco-friendly heat pump** technology and the **condensation boiler** for heating in a single compact product.
The eco-friendly **R32** gas combines high efficiency with a reduced environmental impact. Thanks to its **GWP of 675,** about a third compared to the GWP of R410a, it helps to reduce emissions of CO_2, which are the main cause of global warming.
The **compact size**, similar to that of a wall-hung boiler, **makes it easier to replace without significant loss of space** or the need for major restructuring work.
By running the boiler or heat pump as the climatic conditions vary, the internal electronics **optimise the output of the system** by constantly operating **in the most economic and efficient mode possible**, with excellent benefits for the end user.
The boiler will be free to produce **DHW in the external DHW storage tank** during heat pump heating or cooling operations, thereby **maximising the comfort levels**. In the unlikely event that the heat pump is blocked, the boiler will still be able to operate autonomously in backup mode, **thus guaranteeing heating and the production of DHW**.
The system consists of a **Full DC Inverter external unit**, available with a choice of 4 different powers, associated with a **hybrid internal unit and condensation unit with an integrated hydronic module**, including a DC inverter pump for the control of the cooling circuit. The system is extremely versatile and capable of operating in harsh climate conditions **up to -20°C** outdoors. It **avoids the risk of freezing** thanks to a split cooling circuit.
The **Photovoltaic Input** function prevents the boiler from producing DHW, promoting the use of the heat pump only and any electric water heater, thus maximising self-consumption and the benefits for the user.
Wall flue gas exhaust in the cases pertaining to Italian Leg. Decree no. 102 of 4 July 2014.

> FEATURES OF THE OUTDOOR UNIT:

- Approved for **external use in completely exposed site**
- Powered by **R32 eco-friendly gas** with low environmental impact
- **Inrush current and reduced noise** thanks to Full inverter technology
- Compressor with **twin rotary DC INVERTER motor** on vibration damping supports and wrapped in double layer of soundproofing material to minimise vibrations and noise
- **Axial** fans with **DC brushless** motor including protective grilles
- **External air temperature probe pre-installed on the unit.**

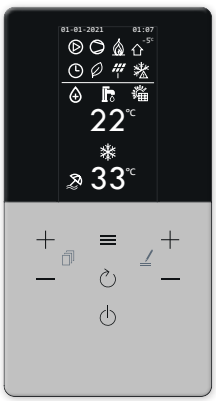
> FEATURES OF THE INDOOR UNIT:

- **Sturdy and suitable for replacements even in particularly critical systems**
- **Combustion module with a 1:10 modulation range and extra-thick stainless steel heat exchanger with larger channels** to maintain high efficiency even on old oxidised and soiled systems
- Standard supply with squared system supply and return valves (with easy-access filter for inspection)
- **M.G.R: Methane, LPG, Propane-air Ready**, with a simple configuration, the boiler can run on natural gas, LPG and a propane-air mixture without the use of any additional conversion kits
- **MC²: Multi Combustion Control**, combustion system with patented gas-adaptive technology for improved adaptability of use to variations in the gas supply conditions (e.g. pressure fluctuations or drops)
- **F.P.S: Flue gas protection system.** The standard flue gas check valve offers easy connection to pressurised collective flue systems
- **Particularly suited to operating in flues requiring "heavy-duty" pipes** thanks to approval for **operation with flue gas exhaust pipes with a diameter of 50mm**

> THE CONTROL SYSTEM

- The interface features Capsense **technology** with a 2.8" graphic display for user-friendly, practical interaction. The on-board machine interface communicates seamlessly with the new **Connect CRP** smart systems, which can control **up to 8 thermostats** (of which 7 are **Connect CRP Zones**), divided into 2 zones, one direct and one mixed
- **MODBUS PROTOCOL** for smart control via an external BMS
- **HEATING AND COOLING** with Ferroli Full Inverter modulation which allows you to set the temperature curve to reduce consumption and improve user comfort.
- **SMART GRID INPUT FROM PHOTOVOLTAIC SYSTEM AND POWER GRID.** Smart Grid contacts to optimise consumption and save on energy bills. We invite you to read the manuals for more details.
- **REMOTE CONTROL VIA APP.** Available for iOS and Android using the Connect CRP (optional)
- **SILENT PDC MODE.** Reduces the maximum compressor frequency and fan speed, thus significantly reducing noise levels.
- **ON/OFF and SUMMER/WINTER** from external contacts. The unit can be switched on and off via an external contact, by receiving summer/winter switching signals (e.g. from the zone thermostat). The operating mode will follow the controller settings
- **ECO.** Dedicated setpoint for "Eco" mode. Can be set with a daily time slot
- **WEEKLY HOURLY PROGRAMMING.** The Connect CRP (optional) allows differentiated hourly programming for each day of the week, defining the mode (COOL/WARM/DHW) and operating setpoints for each time slot.

2.8" GRAPHIC INTERFACE WITH CAPSENSE TECHNOLOGY



OMNIA S 3.2 HY H		04		06		08		10	
ERP class in heating / Seasonal efficiency average temperature (produced water 35°C)	Class / ηs (%)	A	187	A	191	A	200	A	201
ERP class in heating / Seasonal efficiency low temperature (produced water 55°C)	Class / ηs (%)	A	128	A	136	A	130	A	135
PRATED (low temperature 35°C)	kW	5.50		6.80		8.10		9.20	
SCOP (low temperature 35°C)	W/W	4.75		4.85		5.08		5.10	
PRATED (medium temperature 55°C)	kW	4.40		5.70		6.60		7.70	
SCOP (medium temperature 55°C)	W/W	3.29		3.49		3.34		3.47	
SEER (produced water 7°C)	W/W	4.99		5.34		5.83		5.98	
Power supply	V-ph-Hz	220/240-1-50							
Type and no. of compressors	-	1 x Twin Rotary DC							
Type of exchanger system side / source side	-	brazed stainless steel plates / finned coil							
Type of fans / no. of fans	-	brushless DC / 1							
Refrigerant fittings - liquid line	Ø	1/4" SAE / Ø 6.35				3/8" SAE / Ø 9.52			
Refrigerant fittings - gas line	Ø	5/8" SAE / Ø 15.88							
Indoor unit expansion vessel volume	L	8							
SWL - outdoor* / indoor* unit sound power level	dB(A)	55 / 43		58 / 43		59 / 43		60 / 43	
Outdoor / indoor unit weight	kg	58 / 28				77 / 28			

NOTE: The products comply with the European ErP Directive (Directive 2009/125/EC) and the relevant European Regulations (EU 811/2013). The values refer to units without any optional features or accessories.
SWL = Sound Power Levels, referred to 1×10^{-12} W, with the unit operating under **A7W35** conditions. The Total Sound Power Level in dB(A) is measured in accordance with ISO 9614. The Total Sound Power Level in dB(A) is therefore the only binding acoustic value. Sound pressure levels are calculated values derived from the sound power level (SWL) by applying ISO 3744 relationships. Values obtained in accordance with standards EN 14511:2022 and EN 14825:2022.

PERFORMANCE DATA			04	06	08	10
A7W35	Nominal heat output	kW	4.20	6.35	8.40	10.0
	Nominal input power	kW	0.82	1.28	1.63	2.02
	COP	W/W	5.10	4.95	5.15	4.95
A7W45	Nominal heat output	kW	4.30	6.30	8.30	10.0
	Nominal input power	kW	1.13	1.70	2.16	2.67
	COP	W/W	3.80	3.70	3.85	3.75
A35W18	Designed cooling capacity	kW	4.50	6.50	8.30	9.90
	Nominal input power	kW	0.82	1.35	1.64	2.18
	EER	W/W	5.50	4.80	5.05	4.55
A35W7	Designed cooling capacity	kW	4.70	6.50	7.45	8.20
	Nominal input power	kW	1.36	2.17	2.22	2.52
	EER	W/W	3.45	3.00	3.35	3.25

The values refer to a unit without any optionals or accessories. Data declared according to **EN 14511**: **EER** (Energy Efficiency Ratio) = ratio of cooling power to input power **COP** (Coefficient Of Performance) ratio of heat output to input power **A7W35** = source: air in 7°C d.b. 6°C w.b. / system: water in 30°C out 35°C **A7W45** = source: air in 7°C d.b. 6°C w.b. / system: water in 40°C out 45°C **A35W18** = source: air in 35°C d.b. / system: water in 23°C out 18°C **A35W7** = source: air in 35°C d.b. / system: water in 12°C out 7°C **NOTES:** Efficiency class calculated according to the European regulation **811/2013**.

OMNIA S 3.2 HY H PERFORMANCE		04	06	08	10
Max/min thermal output in heating (Hi)	kW	28.5 / 2.9			
Max/min thermal output in heating (80/60°C)	kW	27.9 / 2.8			
Max/min thermal output in heating (50/30°C)	kW	30.2 / 3.1			
Pmax/Pmin efficiency (80-60°C) (Hi)	%	97.8 / 98			
Pmax/Pmin efficiency (50-30°C) (Hi)	%	106.1 / 107.5			
Efficiency 30% (Hi)	%	109.5			
Max/min working pressure in heating	bar	3 / 0.8			
E.U. + I.U. CODE (*)		**0XHK4NWA**	**0XHK6NWA**	**0XHK8KWA**	**0XHKAMWA**
		0XHK4MWA	**0XHK6MWA**		
		0XHK4KWA	**0XHK6KWA**	**0XHK8MWA**	**0XHKAKWA**

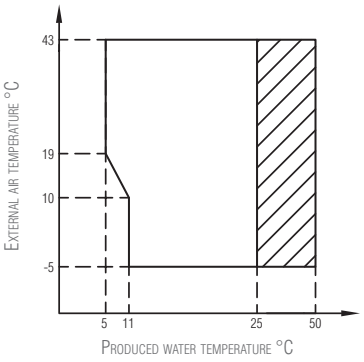
(*) The code will be confirmed during the order phase based on the commercial back office availability

OPTIONAL ACCESSORIES		CODE
	Galvanised normal template	046054X0
	Hydraulic kit consisting of gas tap, water inlet tap and connection pipes/fittings	012051W0
	Attachment cover kit for aesthetic cover of wall-mounted hydraulic connections	016009X0
	Connect CRP	013069XA
	Connect CRP Zones	013055XA

OPTIONAL ACCESSORIES		CODE
	90° coaxial bend, 360° swivel with 45° pitch ø 100/60 mm for condensation boilers	041084X0
	coupling for vertical coaxial pipe ø 80/125 mm for condensation boilers	041006X0
	coupling for vertical coaxial pipe ø 100/60 mm for condensation boilers	041083X0
	Twin pipe 80/80 discharge kit for condensation boilers, including test points	041082X0
	Rubber anti-vibration kit for outdoor unit	2CP000ZF
	System flow temperature probe or for hybrid solar/hybrid system integration	2CP000NF

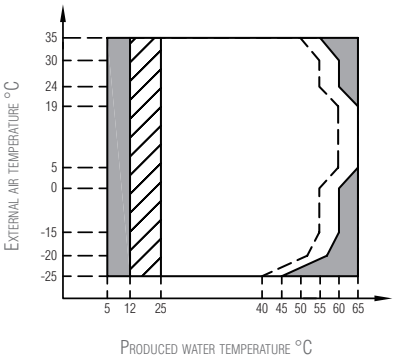
OPERATING LIMITS

COOL MODE



Operating range with heat pump with possible limitation and protection

WARM MODE

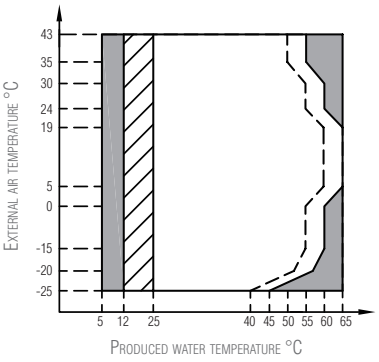


Operating range with heat pump with possible limitation and protection

With IBH (internal backup heater) installed

Maximum inlet water temperature for heat pump operation

DHW MODE



Operating range with heat pump with possible limitation and protection

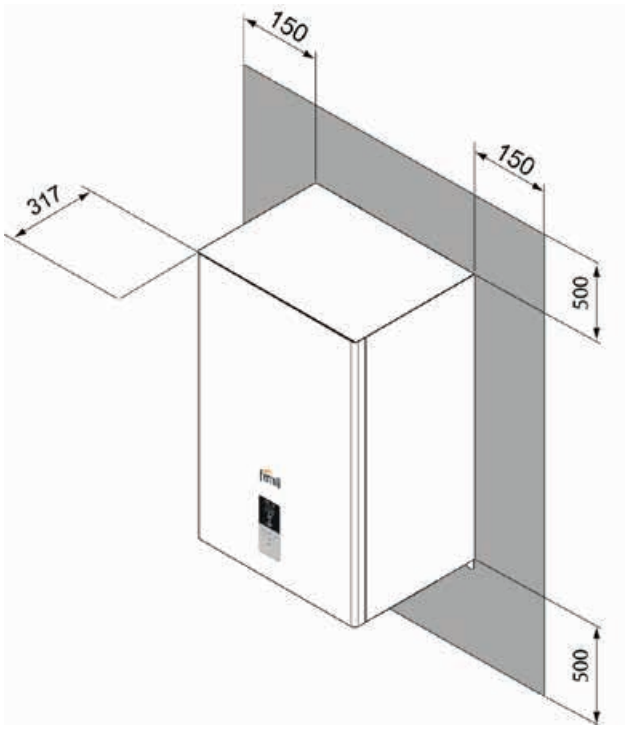
With IBH (internal backup heater) installed

Maximum inlet water temperature for heat pump operation

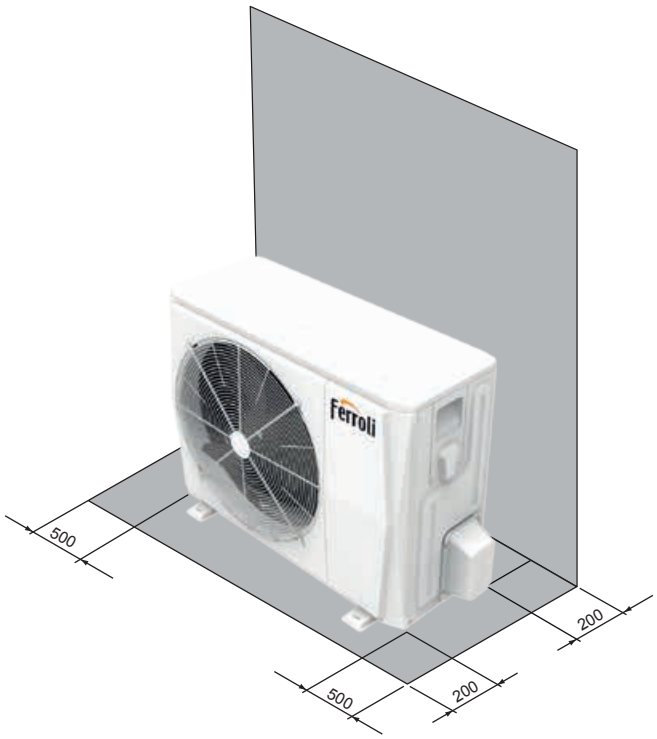
NOTE DHW MODE: the produced water temperature is the temperature of the water produced by the unit and not the DHW temperature available to the user, which is a function of this parameter and of the surface of the coil of the DHW cylinder, if any.

MINIMUM WORKING SPACES (in mm)

INDOOR UNIT

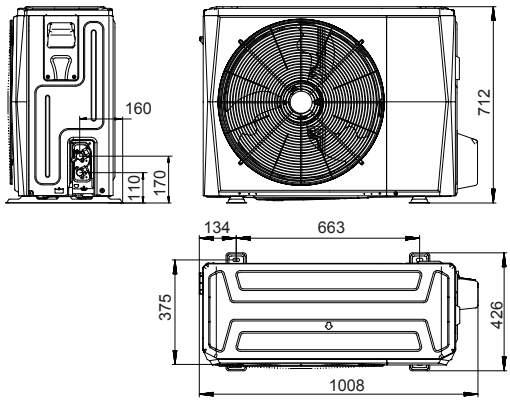


OUTDOOR UNIT

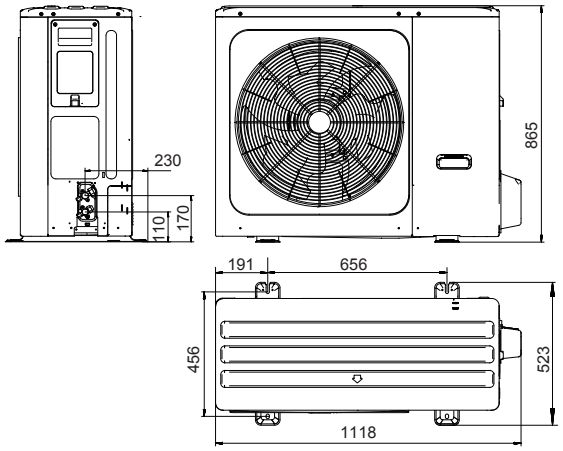


OVERALL DIMENSIONS OF OUTDOOR UNIT (in mm)

mod. 4 - 6

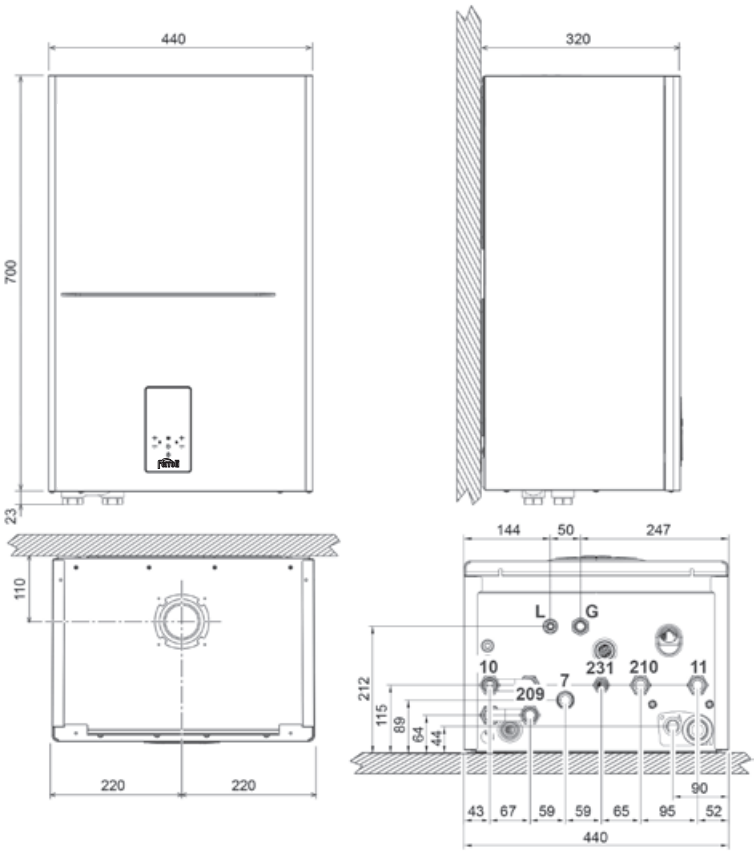


mod. 8 - 10



MODELS		4	6	8	10
Packaging (WxHxD)	mm	1065x800x485		1190x970x560	
Packaging weight	kg	65		94	

OVERALL DIMENSIONS OF INDOOR UNIT (in mm)



> LEGEND

7	Gas inlet - Ø 3/4"
10	System delivery - Ø 3/4"
11	System return - Ø 3/4"
209	Water heater supply - Ø 3/4"
210	Water heater return - Ø 3/4"
231	Filling coupling - Ø 1/2"
A6	Condensate drain connection
L	Liquid line
G	Gas line

HYBRID HYDRO-KIT

HYDRAULIC KIT FOR HYBRID SYSTEMS WITH BOILER AND HEAT PUMP





- Kit placed under the boiler that allows the creation of a hybrid system, integrating a reversible heat pump and a gas boiler
- Minimises plumbing and electrical installation work

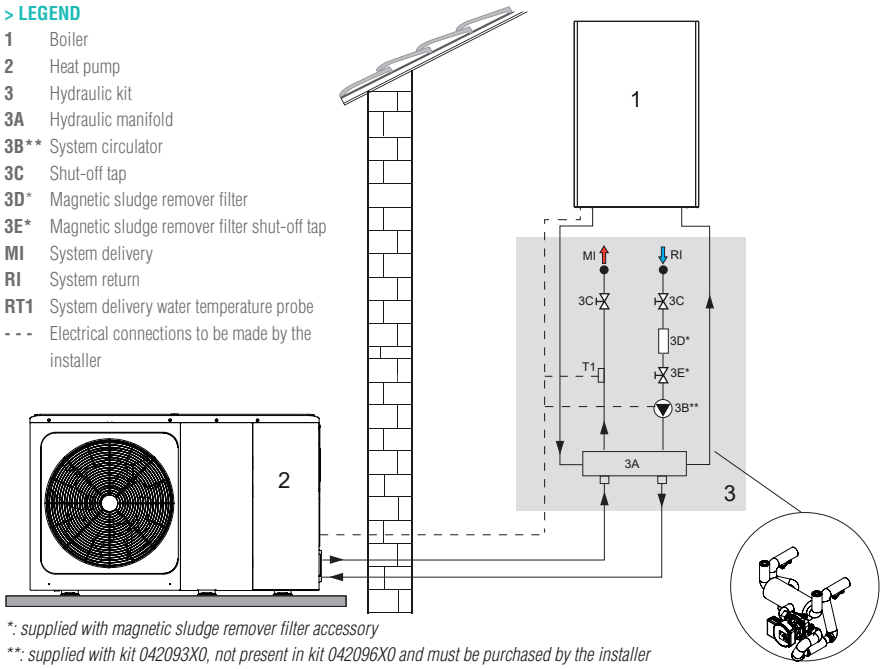
The kit consists primarily of:
- isolated hydraulic manifold
- system shut-off taps to facilitate the maintenance of the various components
- circulator for the system (only supplied with kit 042093X0)

*** Check compatibility of accessories with the desired wall-mounted boiler**

OPERATIONAL HYDRAULIC DIAGRAM

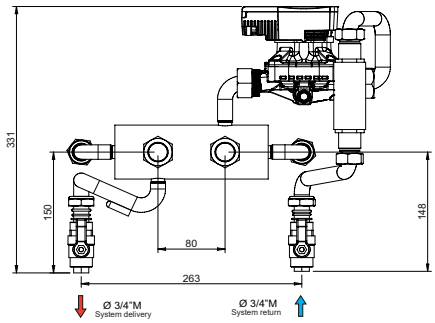
> LEGEND

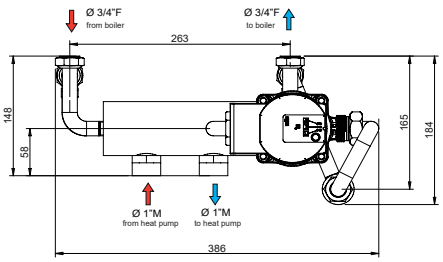
1	Boiler
2	Heat pump
3	Hydraulic kit
3A	Hydraulic manifold
3B**	System circulator
3C	Shut-off tap
3D*	Magnetic sludge remover filter
3E*	Magnetic sludge remover filter shut-off tap
MI	System delivery
RI	System return
RT1	System delivery water temperature probe
- - -	Electrical connections to be made by the installer



**: supplied with magnetic sludge remover filter accessory*
***: supplied with kit 042093X0, not present in kit 042096X0 and must be purchased by the installer*

HYDRAULIC KIT DIMENSIONS





HYBRID HYDRO-KIT		WITHOUT CIRCULATOR	WITH CIRCULATOR
Height	mm	202	202
Width	mm	386	386
Depth	mm	331	331
Connections	Heat Pump Boiler System	Ø 1"M Ø 3/4"F Ø 3/4"M	Ø 1"M Ø 3/4"F Ø 3/4"M
CODE		**042096X0**	**042093X0**

> ACCESSORIES

CODE	DESCRIPTION
0YBP3BX0	MAGNETIC SLUDGE REMOVER FILTER
016096X0	UNDER-BOILER COVER KIT

OMNIA LIFE M

REVERSIBLE HEAT PUMP FOR OUTDOOR INSTALLATION WITH DC INVERTER COMPRESSOR AND R290 REFRIGERANT



*



CONTROL THROUGH CLIMA CONTROL DISPLAY
ACCESSORY - THE INSTALLATION IS MANDATORY



SCAN THE QR CODE TO INSTALL THE CONTROL APP "MYOMNIA SMART"

Google Play App Store

> UNIT DESCRIPTION

This series of air-water heat pumps meets the needs of winter and summer air-conditioning of small and medium power residential and commercial installations. All the units are suitable for outdoor installation and **being able to produce water up to 75°C**; they can be used in radiant systems, fan coils, radiators and for the indirect production of domestic hot water (DHW) via an external DHW storage tank (not provided).

The units are characterized by the **use of the ecological refrigerant R290** (with GWP: 3) and a DC inverter compressor that modulates the supplied power and come complete with a hydronic kit composed of all the essential components for quick and safe installation.
The units are characterised by high energy efficiency and reduced sound levels allowing them to be used as a single generator for the plant or integrated with other energy sources such as additional electric heating elements or boiler. All units are supplied as standard with a DHW water storage tank temperature probe (to be installed by the installer) and with an outdoor air temperature probe (already installed on the unit), to achieve climatic adjustment in heating and cooling.

For specific applications, the units can be installed in multiple "cascade" configuration with a **"MASTER" unit** (directly managed by the controller) and **up to 5 "SLAVE" units**, also different in their output power. The preparation of the domestic hot water is left to the master unit, while in the event of a failure of one of the slave units the remaining ones may continue to work in a normal way.
All units are carefully built and individually tested in factory. Installation only requires electrical and hydraulic connections.

OMNIA LIFE M is available as standard without e-heater inside. Special version with e-heater inside also available.

> MAIN CHARACTERISTICS

- **Ecological refrigerant R290, with very low GWP (only 3)**
- **Range from 4 up to 16 kW, with 7 models (230V) and 3 models (380V)**
- **High Efficiency class: A^{+++} (35°C) and A^{++} (55°C)**
- **Hot water production up to 75°C (with external air temperature: -10°C)**
- **Wide temperature operating limits. (Hot water production up to 55°C with external air temperature -25°C)**
- **WIFI included (in remote control)**
- **USB FUNCTION. Configuration via USB port. Parameter setting transmission between wired controlers; convenient program upgrade for unit.**
- **High COP (up to 5,15) and EER (up to 5,5)**
- **Reduced sound power level. From 56 dB(A) (4kW model) up to 69 dB(A) (16 kW model)**
- **Reduced dimensions with only one fan to facilitate the integration in the building**
- **Cascade control up to 6 units**
- **Finned coil with anti-corrosion treatment**

> THE CONTROL SYSTEM

- **The user interface consists of a remote wired controller (2 wires, max 50 mt length from the unit) with menu in 18 languages**
- **USB FUNCTION. Configuration via USB port. Parameter setting transmission between wired controlers; convenient program upgrade for unit**
- Heating and cooling system
- Domestic Hot Water production (DHW)
- **Additional sources of energy (boiler or electrical heater)**
- Electric heater of the DHW tank
- Fast DHW
- **Desinfect function (anti-legionella cycle)**
- **Silent mode**
- Remote ON/OFF using external contact
- ECO mode
- **Weekley scheduling**
- Antifreeze protection
- **Cascade function (up to 6 units: 1 master + 5 slaves)**
- **Management of up to 2 system zones (1 mixed and 1 direct)**
- **Photovoltaic input and Smart Grid Input**
- Current input limitation by parameter
- **Remote control of the unit via APP (available for IOS and Android)**
- Detailed alarms diagnostics with alarms history
- Display of all operating parameters

> STANDARD ACCESSORIES INCLUDED

- **TEMPERATURE PROBE** for the integration of a supplementary heat source or to install inside a DHW storage tank
- **Y WATER FILTER** (assembled by the installer)

** Keymark Certification in progress*

> ACCESSORIES

WATER TEMPERATURE PROBE The temperature probe can be connected to perform the functions T1 / Tbt1 / Tbt2 / T5 / Tw2 / Tsolar (for more details refer to the installation and user manual of the unit)

HYDRAULIC ELECTRONIC BOARD BOX This accessory is used to shorten the field connection cable lenght between hydraulic module pcb on heat pump and the external components that are usually connected, such as 3-way valve, dhw heater, pumps, external electrical heater, boiler, etc., making the installation more flexible

REMOTE CONTROL For the correct operation of the equipment it is essential to connect the remote control. In case of cascade installation of several units, only one control per cascade is necessary

OMNIA LIFE M			4	6	8	10	12	14	16	12T	14T	16T
Space heating application	Low temperature (Water outlet at 35°C)	ηs (%)	200	193	204	200	184	182	181	184	182	181
		Classe										
		PRATED (kW)	5.00	6.40	8.00	9.20	12.10	13.70	14.70	12.10	13.70	14.70
		SCOP (W/W)	5.07	4.89	5.19	5.07	4.67	4.63	4.59	4.67	4.63	4.59
	Medium temperature (Water outlet at 55°C)	ηs (%)	149	150	150	150	142	141	140	142	141	140
		Classe										
		PRATED (kW)	4.90	5.90	6.80	7.80	12.00	13.00	14.40	12.00	13.00	14.40
		SCOP (W/W)	3.79	3.82	3.82	3.82	3.62	3.61	3.57	3.62	3.61	3.57
Space cooling application	Low temperature (Water outlet at 7°C)	SEER (W/W)	5.23	5.32	5.86	5.55	5.19	5.18	5.12	5.19	5.18	5.12
	Medium temperature (Water outlet at 18°C)	SEER (W/W)	6.36	6.85	8.14	8.16	6.42	6.75	6.65	6.42	6.75	6.65
DHW application	Warm climate (A14)	SCOP DHW (1)	3.54	3.5	3.43	3.41	3.56	3.54	3.53	3.56	3.54	3.53
	Average Climate (A7)	SCOP DHW (1)	3.25	3.21	3.17	3.16	3.29	3.23	3.21	3.29	3.23	3.21
	Cold Climate (A2)	SCOP DHW (1)	2.6	2.59	2.57	2.57	2.67	2.64	2.63	2.67	2.64	2.63

NOTE1: Declared in according to European Regulation 811/2013. Values refer to units without options and accessories. Energy Label rating on a scale of D to A+++
NOTE2: SCOP and SEER accordind to EN14825
NOTE3: SCOP DHW according to EN16147:2017. **(1)** Tested with DHW storage tank ECOUNIT HP 1C (200 for 4-6-8-10, and 300 for 12-14-16-...16T)

PERFORMANCE DATA			4	6	8	10	12	14	16	12T	14T	16T
A7W35	Heating capacity	kW	4.5	6.2	8.4	10	12	14	15	12	14	15
	Power input	kW	0.87	1.27	1.68	2.13	2.5	3.11	3.41	2.5	3.11	3.41
	COP	W/W	5.15	4.9	5	4.7	4.8	4.5	4.4	4.8	4.5	4.4
	Water flow rate	l/h	774	1066	1445	1720	2064	2408	2580	2064	2408	2580
	Available static pressure	kPa	89	88	79	70	64	54	49	64	54	49
A7W45	Heating capacity	kW	4.5	6.4	8.2	10	12	14	15	12	14	15
	Power input	kW	1.11	1.68	2.13	2.74	3.24	4	4.48	3.24	4	4.48
	COP	W/W	4.05	3.8	3.85	3.65	3.7	3.5	3.35	3.7	3.5	3.35
	Water flow rate	l/h	774	1101	1410	1720	2064	2408	2580	2064	2408	2580
	Available static pressure	kPa	89	87	80	70	64	54	49	64	54	49
A7W55	Heating capacity	kW	4.6	6.2	7.8	9.5	12	14	15	12	14	15
	Power input	kW	1.44	2	2.44	3.12	3.87	4.67	5.26	3.87	4.67	5.26
	COP	W/W	3.2	3.1	3.2	3.05	3.1	3	2.85	3.1	3	2.85
	Water flow rate	l/h	495	667	839	1021	1290	1505	1613	1290	1505	1613
	Available static pressure	kPa	89	89	86	86	86	81	78	86	81	78
A35W18	Heating capacity	kW	4.5	6.5	8.3	10	12	14	16	12	14	16
	Power input	kW	0.82	1.28	1.61	2.11	2.67	3.33	4.1	2.67	3.33	4.1
	EER	W/W	5.5	5.1	5.15	4.75	4.5	4.2	3.9	4.5	4.2	3.9
	Water flow rate	l/h	774	1118	1428	1720	2064	2408	2752	2064	2408	2752
	Available static pressure	kPa	89	87	80	70	64	54	44	64	54	44
A35W7	Heating capacity	kW	4.7	6.8	7.5	8.9	11.5	12.7	14	11.5	12.7	14
	Power input	kW	1.29	2.19	2.17	2.74	3.77	4.38	5.09	3.77	4.38	5.09
	EER	W/W	3.65	3.1	3.45	3.25	3.05	2.9	2.75	3.05	2.9	2.75
	Water flow rate	l/h	808	1170	1290	1531	1978	2184	2408	1978	2184	2408
	Available static pressure	kPa	89	87	83	77	66	60	54	66	60	54
CODE			2CP100AF	2CP100BF	2CP100CF	2CP100DF	2CP100EF	2CP100FF	2CP100GF	2CP100HF	2CP100IF	2CP100JF

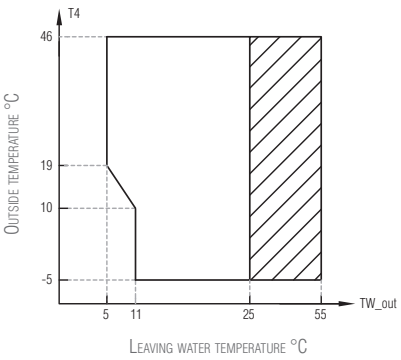
NOTE: Values refer to units without options and accessories **Data declared according to EN14511: EER** (Energy Efficiency Ratio) = ratio of the total cooling capacity to the effective power input of the unit **COP** (Coefficient of Performance) = ratio of the total heating capacity to the effective power input of the unit **A7W35** = source air in 7°C d.b. 6°C w.b. / plant: water in 30°C out 35°C **A7W45** = source air in 7°C d.b. 6°C w.b. / plant: water in 40°C out 45°C **A7W55** = source air in 7°C d.b. 6°C w.b. / plant: water in 47°C out 55°C **A35W18** = source: air in 35°C d.b./ plant: water in 23°C out 18°C **A35W7** = source: air in 35°C d.b./ plant: water in 12°C out 7°C

GENERAL DATA		4	6	8	10	12	14	16	12T	14T	16T
Power supply	V-ph-Hz	220/240-1-50							380/415-3N-50		
Compressor type	-	Twin rotary DC									
N° compressors / N° refrigerant circuits	n	1 / 1									
Plant side heat exchanger type	-	Stainless steel brazed plates									
Source side heat exchanger type	-	Finned coil with anti-corrosion treatment									
N° and type fans	-	1 x DC axial									
Nominal air flow	m³/h	2770	2770	4030	4030	4450	4450	5040	4450	4450	5040
Expansion tank volume	l	8									
Water safety valve set	bar	3									
Hydraulic fittings	"	1"		1 1/4"							
Minimum water content of the system	l	25				40					
DHW storage tank - minimum surface of the coil (minimum / recommended)	steel (m^2)	1.4 / 2.5				1.6 / 4					
	enameled (m^2)	2 / 3				2.5 / 5.6					
Refrigerant type	type	R290									
Refrigerant GWP	kg CO_2 eq	3									
Refrigerant charge	kg	0.7		1.1		1.25					
	ton CO_2 eq	0.0021		0.0033		0.00375					
Control type	-	Remote control (wired)									
SWL - Sound Power level (ERP)	dB(A)	56	58	60	61	65	65	69	65	65	69
SWL - Cooling (*) A7W35	dB(A)	56	58	60	61	65	65	69	65	65	69
Max	dB(A)	58	60	62	63	67	68	70	67	68	70
Sil. 1 / Sil. 2	dB(A)	54 / 51	56 / 53	58 / 55	59 / 56	62 / 58	63 / 59	64 / 60	62 / 58	63 /59	64 / 60
SWL - Heating (*) A35W18	dB(A)	56	58	60	61	65	66	69	65	66	69
Max	dB(A)	58	60	62	63	66	67	70	66	67	70
Sil. 1 / Sil. 2	dB(A)	54 / 51	56 / 53	57 / 56	58 / 55	62 / 58	62 / 59	64 / 60	62 / 58	62 / 59	64 / 60
Max current input	A	12	13.5	16	17.5	25	26.5	28	8.5	9	9.5

(*) SWL = Sound Power level, with reference to $1x10^{-12}$ W with unit operating in conditions: **A7W35** = source air in 7°C d.b. 6°C w.b. / plant: water in 30°C out 35°C **A35W18** = source: air in 35°C d.b./ plant: water in 23°C out 18°C **Max** = at maximum conditions in heating / cooling mode **Sil 1** = if silent level 1 active in heating / cooling mode **Sil 2** = if silent level 2 active in heating / cooling mode - The total sound power level in dB(A) measured in compliance with ISO 9614 standards

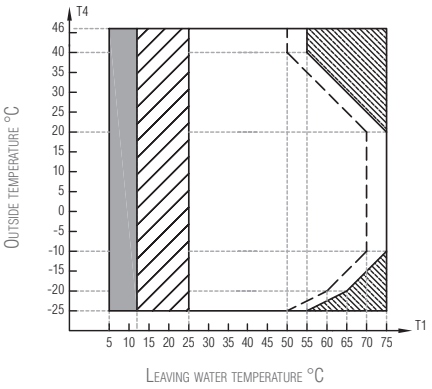
OPERATING LIMITS

COOLING MODE



Operating range of heat pump with possible limitation and protection

HEATING MODE



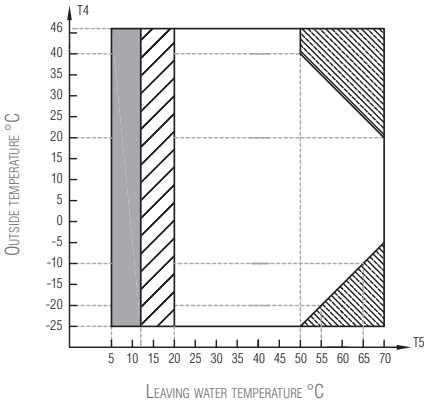
Operating range of heat pump with possible limitation and protection

If the IBH (backup heater) / AHS (boiler) setting is enabled, only IBH / AHS is activated; If the IBH / AHS setting is not enabled, only the heat pump is activated with possible limitations and protections

The heat pump remains off and only IBH (backup heater) / AHS (boiler) turns on

Maximum inlet water temperature line for heat pump operation

DHW MODE



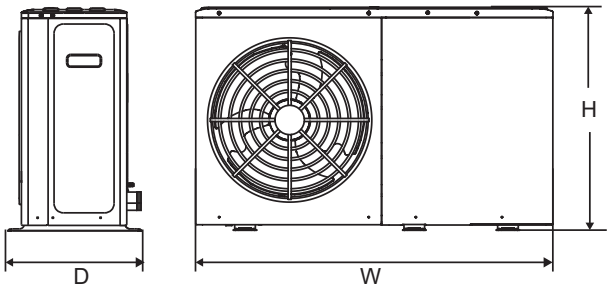
Operating range of heat pump with possible limitation and protection

If the TBH (tank backup heater) / IBH (backup heater) / AHS (boiler) setting is enabled, only TBH / IBH / AHS is activated. If the TBH / IBH / AHS setting is not enabled, only the heat pump is activated with possible limitations and protections.

The heat pump remains off and only TBH (backup heater) / IBH (electric heater) / AHS (boiler) turns on

NOTE FOR DHW MODE: the maximum water temperature indicated in the graph is based on correct sizing of the coil surface of any DHW boiler.

DIMENSIONS

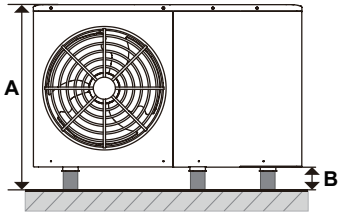


MODELS		4	6	8	10	12	14	16	12T	14T	16T
Unit (W×H×D)	mm	1299 x 717 x 426		1385 x 865 x 523							
Packaging (W×H×D)	mm	1375 x 885 x 475		1465 x 1035 x 560							
Net / Gross weight	Kg	90 / 110		117 / 139		135 / 157			137 / 159		

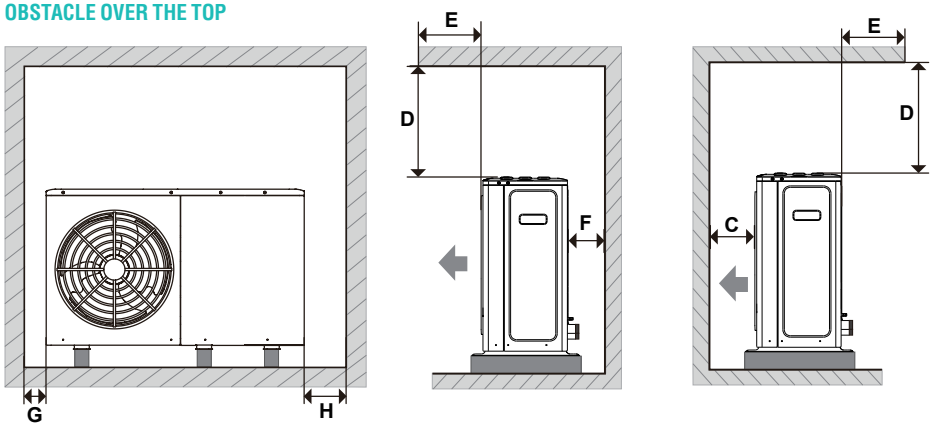
MINIMUM OPERATING AREA

For ground installation and flat roof clearance - single unit

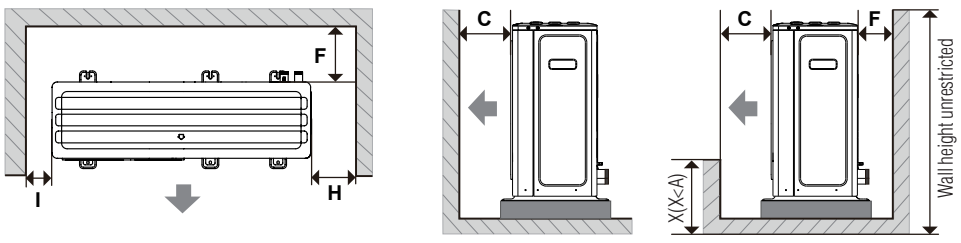
GENERAL



OBSTACLE OVER THE TOP



NO OBSTACLE OVER THE TOP



OMNIA LIFE	4 - 10 kW	12 - 16 kW
A (mm)	Unit height + B	Unit height + B
B (mm)	≥ 100 *	≥ 100 *
C (mm)	≥ 1000	≥ 1500
D	≥ 500	≥ 500
E	≤500	≤500
F	≥ 300	≥ 300
G	≥ 500	≥ 500
H	≥ 500	≥ 500
I	≥ 500	≥ 500

(*) In case of cold weather, take into account of snow on the ground

OMNIA LIFE M 26T-35T

REVERSIBLE HEAT PUMP FOR OUTDOOR INSTALLATION WITH DC INVERTER COMPRESSOR AND R290 REFRIGERANT



*



CONTROL THROUGH CLIMA CONTROL DISPLAY
ACCESSORY - THE INSTALLATION IS MANDATORY



SCAN THE QR CODE TO INSTALL THE CONTROL APP "MYOMNIA SMART"

Google Play App Store

> UNIT DESCRIPTION

This series of air-to-water heat pumps meets the heating and cooling needs of medium-sized residential and commercial installations. All units are suitable for outdoor installation and **can produce water up to 85°C**. They can be used with radiant systems, fan coils, radiators, and for the indirect production of domestic hot water (DHW) via an external storage tank (not included).

The units **use the ecological refrigerant R290** (GWP: 3) and a DC inverter compressor that modulates the output power. They are supplied with a hydronic kit containing all essential components for quick and safe installation.

They offer high energy efficiency and low sound levels, making them suitable either as a single generator or in combination with other energy sources such as electric heaters or boilers.

All units come standard with a DHW storage tank temperature probe (to be installed by the installer) and an outdoor air temperature probe (factory-installed), enabling climate-based control in both heating and cooling modes.

For specific applications, the units can be installed in a cascade configuration with one **"MASTER" unit** (directly managed by the controller) and **up to five "SLAVE" units**, which may also have different power outputs. Domestic hot water production is managed by the master unit.

In the event of a failure of a slave unit, the remaining units continue to operate normally.

All units are carefully manufactured and individually tested in the factory.
Installation requires only electrical and hydraulic connections.

> MAIN CHARACTERISTICS

- **Ecological refrigerant R290, with very low GWP (only 3)**
- **Range from 26 to 35 kW, with 3 models (380V)**
- **High efficiency class: A^{+++} (35°C) and A^{++} (55°C) - NOTE: model 26T A^{+++} (35°C) and A^{+++} (55°C)**
- **Hot water production up to 85°C** (80°C with outdoor air temperature down to -20°C)
- **Wide operating limits** (hot water up to 75°C with outdoor air temperature down to -25°C)
- **Wi-Fi included (remote control)**
- **USB function: configuration via USB port**
- **Parameter transfer between wired controllers; convenient software upgrade for the unit**
- **High SCOP (up to 4.95) and SEER (up to 5.21)**
- **Low sound power level**
- **Compact dimensions for easier integration into buildings**
- **Cascade control up to 6 units**
- **Finned coil with anti-corrosion treatment**

> THE CONTROL SYSTEM

- User interface with a remote wired controller (2-wire connection, max. 50 m from the unit) with menu in 18 languages
- USB function: configuration via USB port, parameter transfer between wired controllers, easy software upgrade
- Heating and cooling operation
- Domestic hot water production (DHW)
- Integration with additional energy sources (boiler or electric heater)
- Electric heater for DHW tank
- Fast DHW
- Disinfection function (anti-legionella cycle)
- Silent mode
- Remote ON/OFF via external contact
- ECO mode (available only for climatic curve in Zone 1)
- Weekly scheduling
- Antifreeze protection
- Cascade function (up to 6 units: 1 master + 5 slaves)
- Management of up to 2 heating zones (1 mixed + 1 direct)
- Photovoltaic input and Smart Grid input
- Maximum current limitation by parameter (applied to maximum current only)
- Remote control of the unit via APP (iOS and Android)
- Detailed alarm diagnostics with history

> STANDARD ACCESSORIES INCLUDED

- **TEMPERATURE PROBE** for integration with a supplementary heat source or for installation in a DHW storage tank
- **Y WATER FILTER** (to be installed by the installer)

** Keymark Certification in progress*

> ACCESSORIES

REMOTE CONTROL For the correct operation of the equipment it is essential to connect the remote control. In case of cascade installation of several units, only one control per cascade is necessary

WATER TEMPERATURE PROBE The temperature probe can be connected to perform the functions T1 / Tbt1 / Tbt2 / T5 / Tw2 / Tsolar (for more details refer to the installation and user manual of the unit)

RUBBER ANTIVIBRATION TRAPEZOIDAL DAMPERS

TECHNICAL DATA

OMNIA LIFE M			26T	30T	35T
Space heating application	Low temperature (Water outlet at 35°C)	ηs (%)	195	194	176
		Class			
		SCOP (W/W)	4.95	4.93	4.48
	Medium temperature (Water outlet at 55°C)	ηs (%)	151	149	142
		Class			
		SCOP (W/W)	3.85	3.80	3.63
Space cooling application	Low temperature (Water outlet at 7°C)	ηs (%)	205	197	190
		SEER (W/W)	5.20	5.00	4.83
	Medium temperature (Water outlet at 18°C)	ηs (%)	284	269	254
		SEER (W/W)	7.18	6.80	6.43

NOTE:
The efficiency, SCOP, and SEER values shown in the table refer to the average climate and to units without optional features or accessories.
Efficiency class calculated in accordance with European Regulation 811/2013.

PERFORMANCE DATA			26T	30T	35T
A7W35	Heating capacity	kW	26	30	35
	Power input	kW	5.45	6.67	8.40
	COP	W/W	4.77	4.50	4.17
	Water flow rate	l/h	4472	5160	6020
	Available static pressure	kPa	71	55	31
A7W45	Heating capacity	kW	26	30	35
	Power input	kW	6.82	8.26	10.05
	COP	W/W	3.81	3.63	3.48
	Water flow rate	l/h	4472	5160	6020
	Available static pressure	kPa	71	55	31
A7W55	Heating capacity	kW	26	30	35
	Power input	kW	7.85	9.57	11.75
	COP	W/W	3.31	3.13	2.98
	Water flow rate	l/h	2795	3225	3763
	Available static pressure	kPa	98	93	85
A35W18	Heating capacity	kW	26	30	35
	Power input	kW	5.60	6.80	8.50
	EER	W/W	4.64	4.41	4.12
	Water flow rate	l/h	4472	5160	6020
	Available static pressure	kPa	71	55	31
A35W7	Heating capacity	kW	26	30	32
	Power input	kW	8.40	10.70	11.98
	EER	W/W	3.10	2.80	2.67
	Water flow rate	l/h	4472	5160	5504
	Available static pressure	kPa	71	55	46
CODE			2CP1000F	2CP1001F	2CP1002F

NOTE: The values refer to units without optional features or accessories. Data declared in accordance with EN 14511:

EER (Energy Efficiency Ratio): ratio of cooling capacity to power input
COP (Coefficient of Performance): ratio of heating capacity to power input
A7W35: source: air at 7°C d.b. / 6°C w.b. - system: water in 30°C / out 35°C
A7W45: source: air at 7°C d.b. / 6°C w.b. - system: water in 40°C / out 45°C
A7W55: source: air at 7°C d.b. / 6°C w.b. - system: water in 47°C / out 55°C
A35W18: source: air at 35°C d.b. - system: water in 23°C / out 18°C
A35W7: source: air at 35°C d.b. - system: water in 12°C / out 7°C

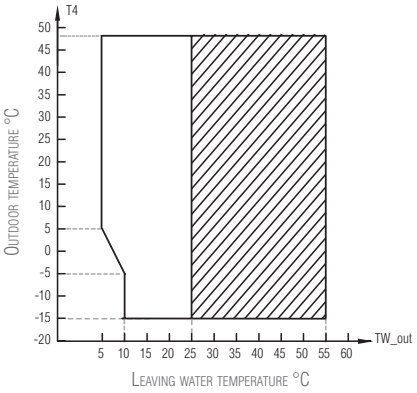
GENERAL DATA		26T	30T	35T
Power supply	V-ph-Hz	380/415-3-50		
Compressor type	-	Twin rotary DC		
N° compressors / N° refrigerant circuits	n	1 / 1		
Plant side heat exchanger type	-	Stainless steel brazed plates		
Source side heat exchanger type	-	Finned coil		
N° and type fans	-	2 x DC axial		
Expansion tank volume	l	5		
Water safety valve set	bar	3		
Hydraulic fittings	"	1 1/4"		
Minimum water content of the system	l	104	120	140
DHW storage tank - minimum surface of the coil	steel (m^2)	3.5		
	enameled (m^2)	5.5		
Refrigerant type	type	R290		
Refrigerant GWP	kg CO_2 eq	3		
Refrigerant charge	kg	2.9		
	ton CO_2 eq	0.0087		
Control type	-	Remote control (wired)		
SWL - Sound Power level (EL)	dB(A)	69	74	75
SWL - Heating (*) A7W35	dB(A)	70	75	76
Max	dB(A)	75	75	76
Sil. 1	dB(A)	63	65	66
Sil. 2	dB(A)	62	62	64
SWL - Cooling (*) A35W18	dB(A)	70	74	74
Max	dB(A)	75	76	75
Sil. 1	dB(A)	66	67	68
Sil. 2	dB(A)	62	63	65
Max current input	A	28	30	32

(*) SWL = Sound Power level, with reference to $1x10^{-12}$ W with unit operating in conditions: **A7W35** = source air in 7°C d.b. 6°C w.b. / plant: water in 30°C out 35°C **A35W18** = source: air in 35°C d.b./ plant: water in 23°C out 18°C **Max** = at maximum conditions in heating / cooling mode **Sil 1** = if silent level 1 active in heating / cooling mode **Sil 2** = if silent level 2 active in heating / cooling mode - The total sound power level in dB(A) measured in compliance with ISO 9614 standards **EL** = Value indicated on the Energy Label

OPERATING LIMITS

COOLING MODE

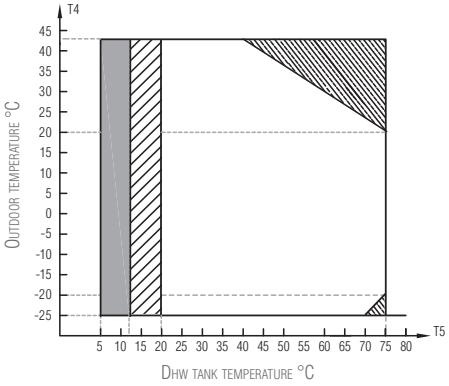
In cooling mode, product works at an outdoor temperature of -15°C to 48°C



Operating range of heat pump with possible limitation and protection

DHW MODE

In DHW mode, product works at an outdoor temperature of -25°C to 43°C



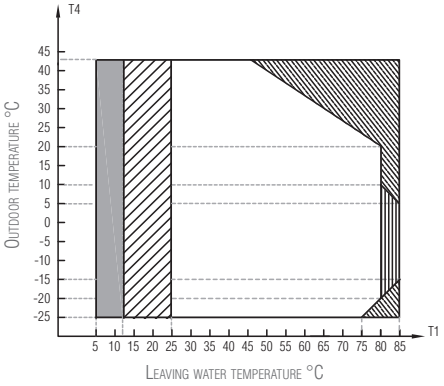
In case of valid TBH/IBH/AHS settings, only the TBH/IBH/AHS turns on

In case of invalid TBH/IBH/AHS settings, only the heat pump turns on. Limitation and protection may occur during heat pump operation. Operating range of heat pump with possible limitation and protection

The heat pump remains off, and only the TBH/IBH/AHS turns on

HEATING MODE

In heating mode, product works at an outdoor temperature of -25°C to 43°C



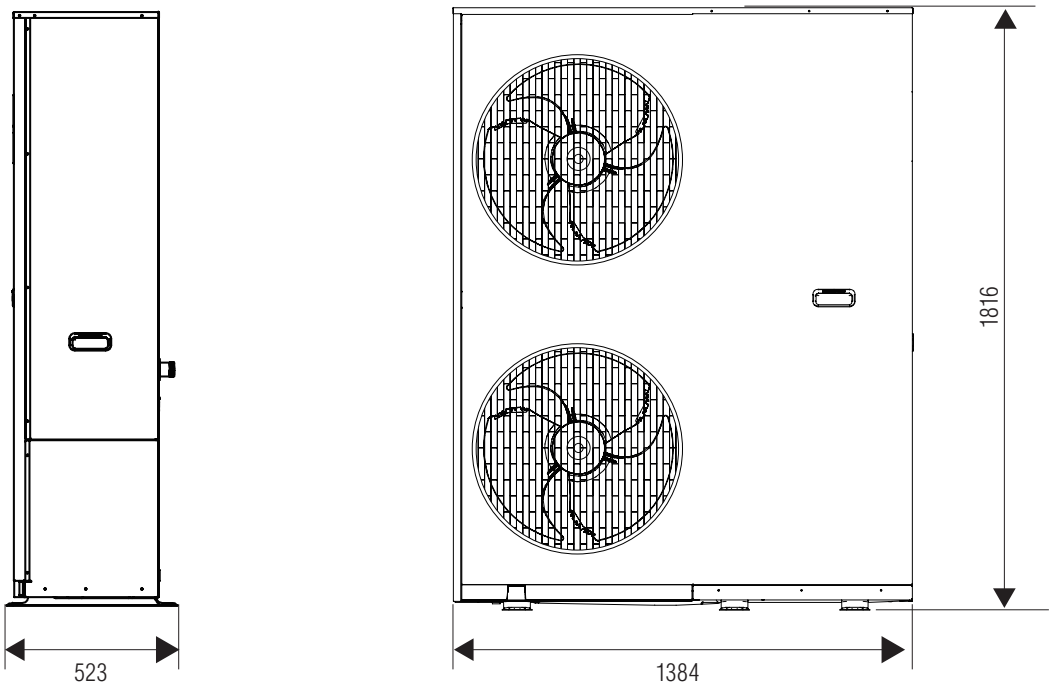
In case of valid IBH/AHS settings, only the IBH/AHS turns on

In case of invalid IBH/AHS settings, only the heat pump turns on. Limitation and protection may occur during heat pump operation. Operating range of heat pump with possible limitation and protection

The heat pump remains off, and only the IBH/AHS turns on

The minimum adjustable water flow of the pump needs to be as low as 1.2 m^3/h

DIMENSIONS



PACKAGING DATA

MODELS	26T	30T	35T
L (Length)	570	570	570
H (Height)	2000	2000	2000
D (Depth)	1480	1480	1480
Net / Gross weight (kg)	245 / 265	245 / 265	245 / 265

OMNIA FT

HYDRONIC INDOOR UNIT WITH INTEGRATED DHW TANK IN COMBINATION WITH OMNIA LIFE M







> UNIT DESCRIPTION

This series of hydronic indoor units with integrated DHW tank are designed to combine with any of Ferroli air-water heat pumps, to meet the needs of climatization and DHW of small and medium power residential and commercial installations

> MAIN CHARACTERISTICS

- DHW production up to 70°C only with heat pump (in combination with Omnia Life M)
- Reduced dimensions that allow the installation of both sizes (200 and 250) in standard kitchen cabinet recesses (600 mm wide)
- Model FT 250 can be combined with all heat pump models (4kW-16kW 1 phase)
- Hydraulic connections at the top to facilitate the connection of the equipment
- Wide range of hydraulic accessories to install inside the unit. No additional space needed
- DHW boiler in enamelled carbon steel (190 liters for mod. 200, 240 liters for mod. 250), insulated with thick polyurethane foam, complete with water drain tap and protected as standard with a 9 bar safety valve
- Can be integrated with 1.5 kW electric heater for DHW tank (accessory)
- 3-way diverter valve for DHW production
- System expansion vessel of 10 liters
- Electric system heater (3 kW single-phase or 6 kW three-phase)
- Water system multifunction group (mechanical filter, magnetic ring and dirt separator) complete with automatic air vent, water pressure gauge and 3 bar safety valve
- System filling tap

> ACCESSORIES

- Hydraulic connections kit for an easy and quick installation
- 18 liters system inertial tank complete with water drain valve and automatic air vent
- 2 zone kit (direct and mixed) consisting of 2 circulators, mixing valve and mixed zone delivery temperature probe
- DHW storage electric heater (1.5 kW single-stage for all models)
- 8 liter DHW expansion tank
- Pipes kit for thermal solar
- Solar thermal kit complete with water circulator and plate exchanger

OMNIA LIFE M			4	6	8	10	12	14	16	12T	14T	16T
CODE			2CP100AF	2CP100BF	2CP100CF	2CP100DF	2CP100EF	2CP100FF	2CP100GF	2CP100HF	2CP100IF	2CP100JF
OMNIA FT			200				-					
CODE			0XHN1VWA				-					
Domestic Hot Water (DHW)	Declared load profile for DHW production	-	L	L	L	L	-					
	Energy Efficiency Class for DHW production	class	A	A	A	A	-					
	DHW Heating Energy Efficiency	η DHW (%)	138	136	135	134	-					
	Warm climate (A14)	SCOP DHW (1)	3.75	3.75	3.69	3.67	-					
	Average climate (A7)	SCOP DHW (1)	3.22	3.18	3.15	3.13	-					
	Cold climate (A2)	SCOP DHW (1)	2.64	2.65	2.62	2.63	-					

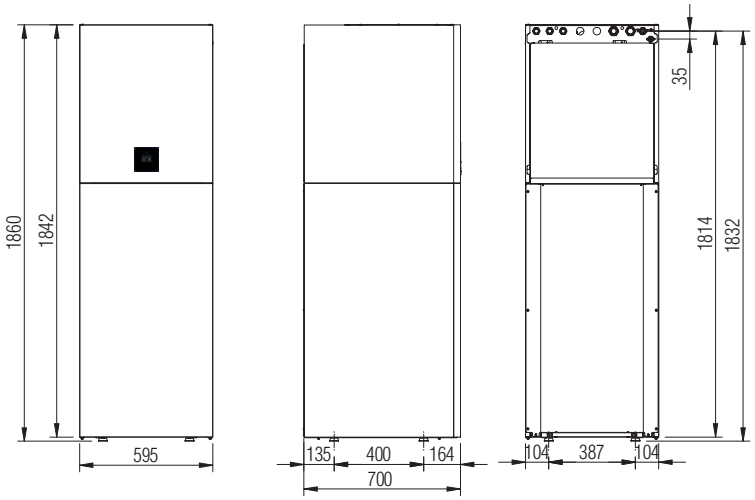
OMNIA LIFE M			4	6	8	10	12	14	16	12T	14T	16T
CODE			2CP100AF	2CP100BF	2CP100CF	2CP100DF	2CP100EF	2CP100FF	2CP100GF	2CP100HF	2CP100IF	2CP100JF
OMNIA FT			250							250T		
CODE			0XHN2VWA							0XHN2WWA		
Domestic Hot Water (DHW)	Declared load profile for DHW production	-	XL	XL	XL	XL	XL	XL	XL	XL	XL	XL
	Energy Efficiency Class for DHW production	class	A	A	A	A	A	A	A	A	A	A
	DHW Heating Energy Efficiency	η DHW (%)	137	136	134	134	137	134	134	137	134	134
	Warm climate (A14)	SCOP DHW (1)	3.83	3.83	3.77	3.75	3.68	3.64	3.62	3.68	3.64	3.62
	Average climate (A7)	SCOP DHW (1)	3.27	3.23	3.2	3.19	3.26	3.19	3.18	3.26	3.19	3.18
	Cold climate (A2)	SCOP DHW (1)	2.69	2.69	2.66	2.67	2.67	2.62	2.59	2.67	2.62	2.59

NOTE: Declared in according to European Regulation 811/2013. Values refer to units without options and accessories. Energy Label rating on a scale of F to A+
(1) SCOP DHW according to EN16147:2017

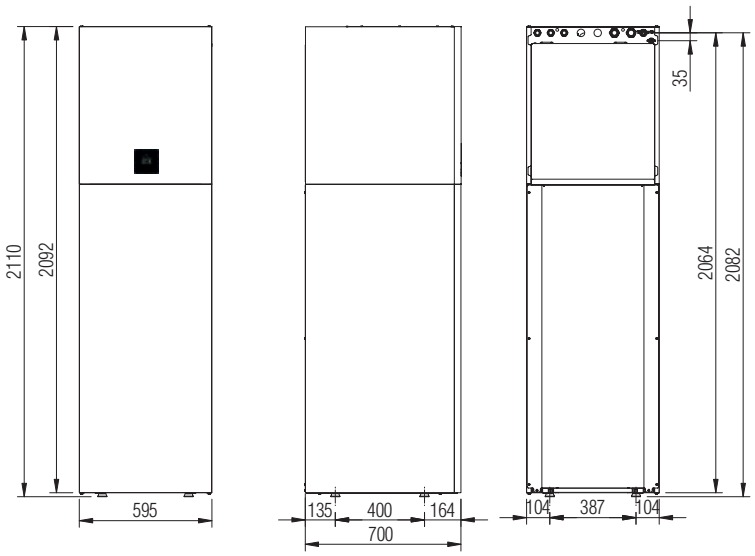
OMNIA FT		200	250	250T
Power supply	V-ph-Hz	230-150	230-1-50	400-3-50
System water connections	-		1" gas F	
DHW water connections	-		3/4" gas F	
Volume expansion vessel (installation)	l	10	10	10
Water content of the installation (minimum / recommended)	l	15 / 40	25 / 40	25 / 40
DHW tank volume	l	190	240	240
System electric heater	kW	3	3	6
DHW storage electric heater (accessory)	kW	1,5	1,5	1,5
DHW expansion vessel volume (accessory)	l	8	8	8
System safety water valve set	bar	3	3	3
DHW tank safety water valve set	bar	9	9	9
SWL - Sound Power Level	dB(A)	39	40	40
Max current input	A	14	14	10

DIMENSIONS

Model 200



Model 250

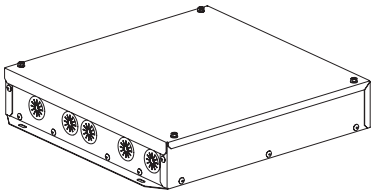


OMNIA FT		200	250	250T
Packaged unit (WxHxD)	mm	700 x 2050 x 800	700 x 2300 x 800	700 x 2300 x 800
Net weight (min-max) (*)	kg	158 / 184	180 / 206	180 / 206
Operation weight (min-max) (*)	kg	349 / 393	421 / 465	421 / 465
Packaged unit weight	kg	164	187	187

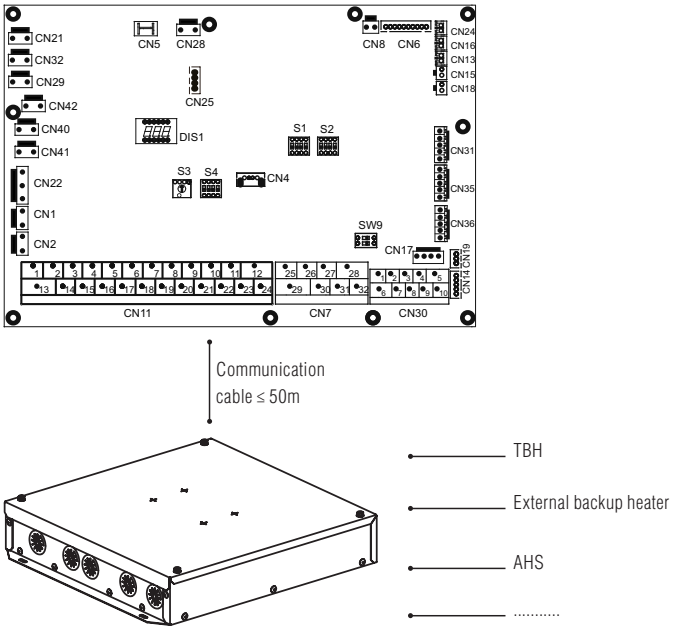
(*) min = the weight refers to the basic unit without accessories / **max =** the weight refers to the basic unit with buffer tank and 2 zone kit accessories installed

HYDRAULIC ELECTRONIC BOARD BOX

This accessory is used to shorten the field connection cable lenght between hydraulic module PCB on heat pump and the external components that are usually connected, such as 3-way valve, DHW heater, pumps, external electrical heater, boiler, etc., making the installation more flexible.



Only 3 shielded wires (3 x 0,75 mm^2) are needed for communication between the heat pump and the hydraulic electronic board box

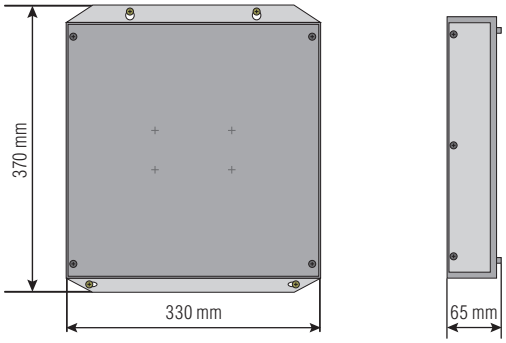


ADVANTAGES

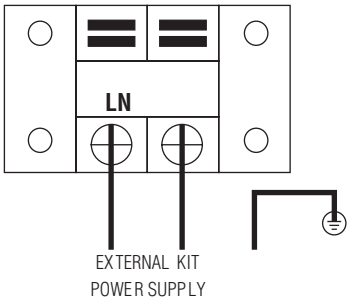
1) Shorter installation time. No need for wiring from the equipment to the elements to be connected. Only from the hydraulic electronic board box

2) Lower installation cost. the wiring installation is much shorter, only 3 wires from the heat pump to the hydraulic electronic board box.

DIMENSIONS

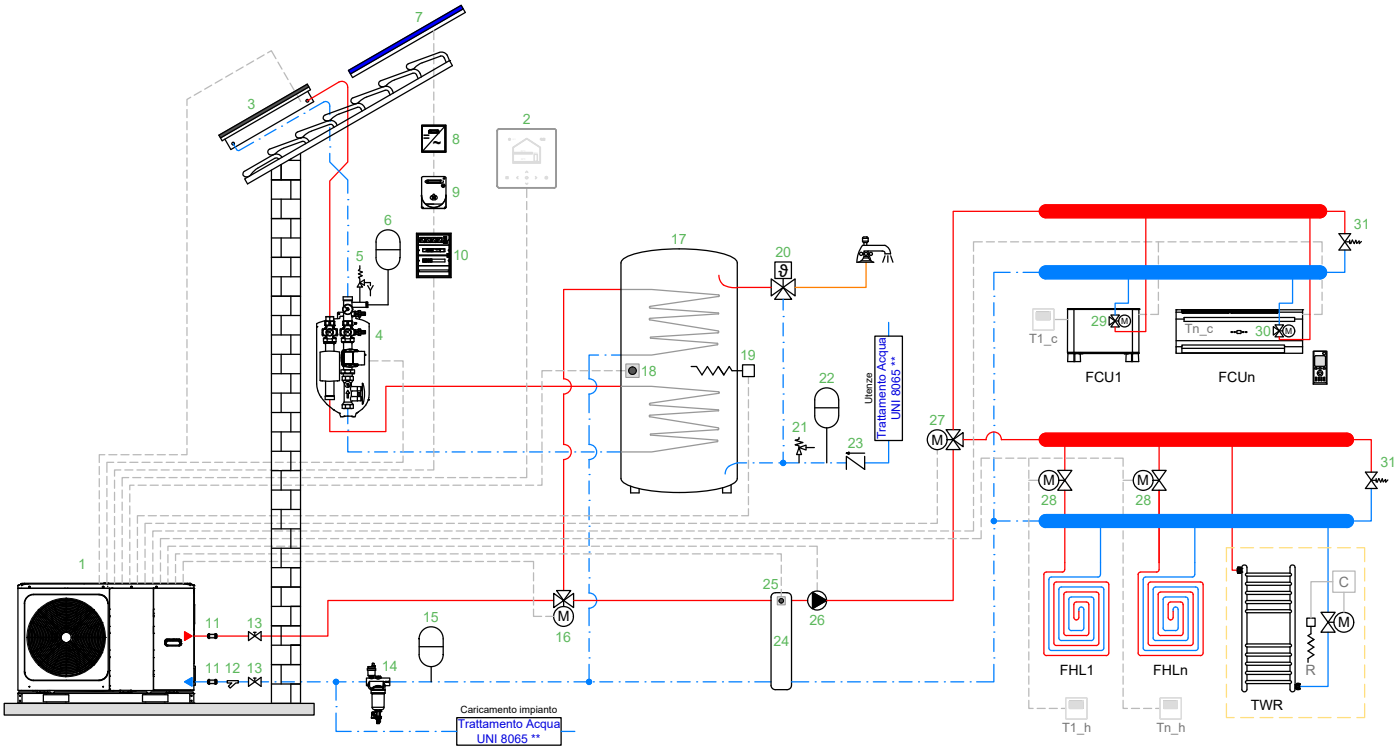


POWER SUPPLY

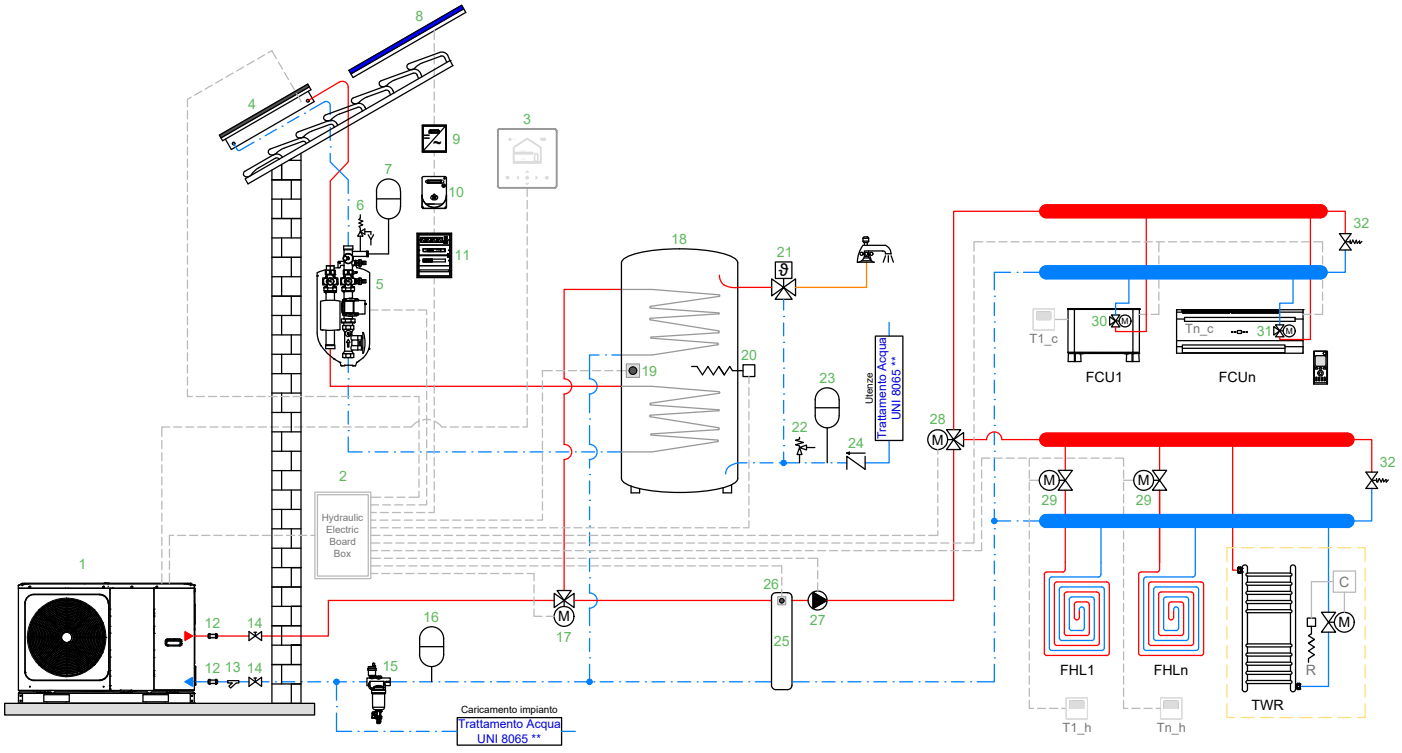


POWER SUPPLY VOLTAGE 220-240V AC
WIRING SIZE 1.5mm^2

BEFORE INSTALLING THE HYDRAULIC ELECTRONIC BOARD BOX



AFTER INSTALLING THE HYDRAULIC ELECTRONIC BOARD BOX



OMNIA M 3.2 REVERSIBLE HEAT PUMP FOR OUTDOOR INSTALLATION WITH DC INVERTER COMPRESSOR

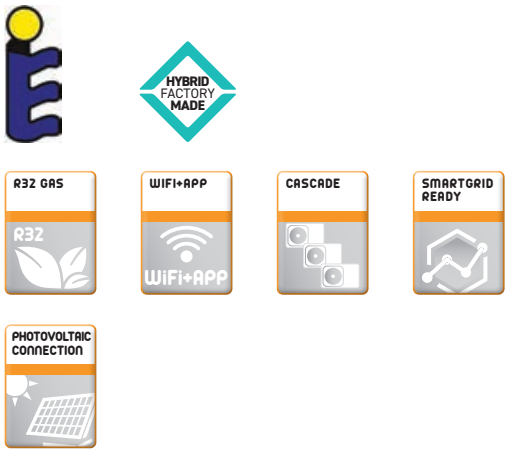


> GENERAL CHARACTERISTICS:

This series of air-water heat pumps meets the needs of winter and summer air-conditioning of small and medium power residential and commercial installations. All the units are suitable for outdoor installation and being able to produce water up to 65°C they can be used in radiant systems, fan coils, radiators and for the indirect production of domestic hot water (DHW) via an external boiler. The units are characterized by the use of a DC inverter compressor that modulates the supplied power and come complete with a hydronic kit composed of all the essential components for quick and safe installation. The units are characterised by high energy efficiency and reduced sound levels allowing them to be used as a single generator for the plant or integrated with other energy sources such as additional electric heating elements or boiler. All units are supplied as standard with a DHW water storage tank temperature probe (to be installed by the installer) and with an outdoor air temperature probe (already installed on the unit), to achieve climatic adjustment in heating and cooling.
For specific applications, the units can be installed in multiple "cascade" configuration with a **"MASTER"** unit (directly managed by the controller) **up to 5 "SLAVE" units**, also different in their output power. The preparation of the domestic hot water is left to the master unit, while in the event of a failure of one of the slave units the remaining ones may continue to work in a normal way.
All units are carefully built and individually tested in factory. Installation only requires electrical and hydraulic connections.

> THE CONTROL SYSTEM

The user interface consists of a remote wired controller (5 wires, max 50 mt length from the unit) that manages:
- HEATING AND COOLING SYSTEM Where the unit is the only heater. If the unit is running in hot or cold mode, it works by modulating the compressor frequency to maintain the temperature of the produced water at the established setpoint value. By mean of a parametrization value, it is possible to use the remote controller (e.g. for single zone heating circuits) as a room thermostat.
- DOMESTIC HOT WATER PRODUCTION (DHW) The unit starts in hot mode to maintain the temperature of a DHW storage tank at the established setpoint value. A 3-way diverter valve (not supplied) and a temperature probe (probe T5, supplied with cable length 10mt) are required to be inserted in a pit of the DHW tank.
- ADDITIONAL ENERGY SOURCES (boiler or electric heating element) Depending from the set values of the parametrization, these sources can be started in integration or replacement of the heat pump during operation in heating or for DHW production and if the heat pump does not work.
- CASCADING FUNCTION of multiple units. The master unit can control in cascade mode up to 6 different units (1 master, 5 slaves, also with different output power) with a single controller connected to the master unit. It is possible to assign the function of production of DHW to the master unit, while in the event of a failure of one of the 5 slave units, the remaining ones may continue to work normally.
- MANAGEMENT UP TO 2 HEATING CIRCUITS (1 DIRECT AND 1 MIXED). The unit is able to manage the circulation pumps (not supplied) of both 2 heating circuits and, only for the mixed circuit, the mixing valve (not supplied) and the water supply line temperature probe (not supplied).
- PHOTOVOLTAIC INPUT AND SMART GRID. The unit is equipped with 2 digital inputs to be connected with the signal coming from the photovoltaic system and from the electrical grid.
The logic of the management is the following:
-if the digital PV input is closed, the unit starts the DHW mode with DHW setpoint = 70°C and (if available) will start the electrical heating element of the DHW storage tank. The unit is running in cooling/heating mode with the normal logic.
-if the digital PV input is open and the smart grid input is closed, the unit runs normally
-if the digital PV input is open and the smart grid input is open, the unit deactivates the DHW mode and may run in cooling/heating mode for a limited period (set by a parameter), then will stop running
- REMOTE CONTROL OF THE UNIT VIA APP. (available for IOS and Android systems).
- DHW STORAGE TANK ELECTRIC HEATING ELEMENT In the DHW mode it is possible to manage an integration electric heating element in the DHW storage tank as integration of the heat pump, as antilegionella function, or as total backup in case of failure of the heat pump.
- FAST DHW This function can be started manually to prioritize DHW by bringing the DHW storage tank to the setpoint in the quickest possible time, by the use of all available energy sources (heat pump, electrical backup resistors, boiler).
- ANTILEGIONELLA FUNCTION Weekly anti-legionella cycles can be set. The heat pump must be integrated with DHW boiler or boiler electrical heating element.
- SILENCED MODE When on, according to a programmed schedule, it reduces the maximum frequency of the compressor and the fan speed, to reduce the noise generated and the power absorbed by the unit.
- ON/OFF with an external contact. The unit can be switched on and off by an external contact (e.g. by a room thermostat / remote switch). In this circumstance, the unit will run in the mode set by the control keyboard.
- HOT/COLD with 2 external contacts. The unit can be started and stopped in cold or hot mode by 2 external contacts (e.g. by a room thermostat / remote switch which manages the hot/cold request).
- ECO/COMFORT Possibility of defining time slots in hot and cold and relative setpoints for ECO and COMFORT modes
- WEEKLY SCHEDULE PROGRAMMING allows to set a different schedule for each day of the week defining the operating mode for each time slot (COLD/HOT/DHW) and the working setpoint.
- ANTIFROST PROTECTION. Guaranteed down to -20°C outdoor air temperature thanks to the heat pump itself working in hot mode, to the electric antifrost heating element (as per standard) and the electric booster (if installed).



CONTROL THROUGH CLIMA CONTROL DISPLAY (REM CC)
SUPPLIED AS PER STANDARD



> COOLING CIRCUIT

This is contained inside the unit to facilitate maintenance operations, it is equipped with **COMPRESSOR** with twin rotary **DC INVERTER** motor to guarantee greater dynamic balancing and reduce vibrations. It is positioned on rubber antivibration supports and wrapped in a double layer of sound-absorbing material to reduce noise. The compressor is also equipped with oil casing heating element. The circuit is completed with **BRAZE-WELDED STAINLESS STEEL PLATE HEAT EXCHANGER** complete with antifrost heating element, A**XIAL FANS WITH BRUSHLESS DC MOTOR** complete with accident prevention safety grilles, finned coil made of copper tubes and aluminium fins. All units are equipped with variable fan speed control which allows operation at low outdoor temperatures in cooling and high outdoor temperatures in heating.

> HYDRAULIC CIRCUIT

Contained inside the unit to facilitate maintenance operations, it is fitted as per standard with LOW CONSUMPTION CIRCULATOR with brushless DC motor, water flow switch, automatic air vent, water pressure gauge, expansion vessel, safety valve, Y water filter (installation by the installation technician). The plate heat exchanger and all the hydraulic circuit pipes are thermally insulated to prevent condensation and reduce heat loss.

> STANDARD ACCESSORIES

PROBE for the integration of a supplementary heat source / **REMOTE CONTROLLER** / **Y FILTER**

GENERAL DATA			4	6	8	10	12	14	16	12T	14T	16T
ERP class in heating / Seasonal efficiency medium temperature * (produced water 35°C)			A++ 191	A++ 195	A++ 206	A++ 205	A++ 189	A++ 186	A++ 182	A++ 189	A++ 186	A++ 182
ERP class in heating / Seasonal efficiency low temperature * (produced water 55°C)			A+++ 130	A+++ 138	A+++ 132	A+++ 137	A+++ 135	A+++ 136	A+++ 133	A+++ 135	A+++ 136	A+++ 133
Prated low temperature (produced water 35°C)		kW	5.5	6.8	8.1	9.2	12	13.7	15.2	12	13.7	15.2
SCOP low temperature (produced water 35°C)		W/W	4.85	4.95	5.21	5.19	4.81	4.72	4.62	4.81	4.72	4.62
Prated medium temperature (produced water 55°C)		kW	4.4	5.7	6.6	7.7	11.6	12.1	13	11.6	12.1	13
SCOP medium temperature (produced water 55°C)		W/W	3.31	3.52	3.36	3.49	3.45	3.47	3.41	3.45	3.47	3.41
SEER water temp 7°C		W/W	4.99	5.34	5.83	5.98	4.89	4.86	4.69	4.86	4.83	4.67
SEER water temp 18°C		W/W	7.77	8.21	8.95	8.78	7.10	6.90	6.75	7.04	6.85	6.71
Electric power supply		V-ph-Hz	220/240-1-50							380/415-3-50		
No and type of compressor		-	1 x Twin Rotary DC									
No. of cooling circuits		no	1									
Type of exchanger system side/ source side		-	brazed stainless steel plates / finned coil									
No. and type of fans		-	1 x DC axial									
Expansion vessel volume		l	2		5							
Setup of the water pressure safety valve		bar	3									
Hydraulic fittings		"	1"		1-1/4"							
Minimum water content onf the system		l	15		25							
DHW boiler - minimum surface of the coil (min / recommended)	steel	m^2	1.4 / 2.5		1.75 / 4.0							
	enamel	m^2	1.7 / 3.0		2.5 / 5.6							
Refrigerant type / GWP		type	R32 / GWP 675									
Refrigerant charge		kg	1.4				1.75					
Control type		-	with remote wire									
SWL - Sound power level Cooling **	A7W35	dB(A)	55	58	59	60	65	65	69	65	65	69
	Max	dB(A)	60	61	61	62	65	65	69	65	65	69
	Sil. 1	dB(A)	56	56	57	58	62	62	63	62	62	63
	Sil. 2	dB(A)	53	53	55	55	56	56	56	56	56	56
SWL - Sound power level Heating **	A35W18	dB(A)	56	58	60	60	64	64	69	64	64	69
	Max	dB(A)	60	61	61	62	65	65	69	65	65	69
	Sil. 1	dB(A)	55	57	57	58	62	62	63	62	62	63
	Sil. 2	dB(A)	52	54	54	54	56	56	56	56	56	56
Max current input		A	12	14	16	17	25	26	27	10	11	12

(*) Values obtained according to EN 14511:2022 and EN 14825:2022 standards. The products comply with the European ErP Directive (Directive 2009/125/EC) and with EU Regulations 811/2013, 813/2013, and 2281/2016.
(**) : SWL = Sound power levels, with reference to $1x10^{-12}$ W with unit operating in conditions: **A7W35** = source : air in 7°C d.b. 6°C w.b. / plant : water in 30°C out 35°C **A35W18** = source : air in 35°C d.b. / plant : water in 23°C out 18°C **Max** = at maximum conditions in heating / cooling mode **Sil. 1** = if silent level 1 active in heating / cooling mode **Sil. 2** = if silent level 2 active in heating / cooling mode**.** The Total sound power level in dB(A) measured in compliance with ISO 9614 standards.

OMNIA M 3.2 WITH BUILT-IN ELECTRIC RESISTANCE			HI3 4	HI3 6	HI3 8	HI3 10	HI9 10	HI9 12T	HI9 14T	HI9 16T
A7W35	Heating capacity	kW	4.20	6.35	8.40	10.00	10.00	12.10	14.50	15.90
	COP	W/W	5.10	4.95	5.15	4.95	4.95	4.95	4.60	4.50
A35W18	Cooling capacity	kW	4.50	6.50	8.30	9.90	9.90	12.00	12.90	13.60
	EER	W/W	5.50	4.80	5.05	4.55	4.55	3.95	3.70	3.61
Power supply - unit		V-ph-Hz	220/240-1-50					380/415-3N-50		
Power supply - electric resistance		V-ph-Hz	220/240-1-50				380/415-3-50			
Electric resistance power		kW	3	3	3	3	9	9	9	9
CODE			**2CP00IAF**	**2CP00IBF**	**2CP00ICF**	**2CP00IEF**	**2CP00IDF**	**2CP00IHF**	**2CP00IIF**	**2CP00IJF**

TECHNICAL DATA

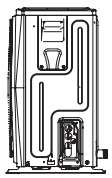
PERFORMANCE DATA				4	6	8	10	12	14	16	12T	14T	16T
A7W35	Heating capacity	kW	nom	4.20	6.35	8.40	10.0	12.1	14.5	15.9	12.1	14.5	15.9
	Power input	kW	nom	0.82	1.28	1.63	2.02	2.44	3.15	3.53	2.44	3.15	3.53
	COP	W/W		5.10	4.95	5.15	4.95	4.95	4.60	4.50	4.95	4.60	4.50
	Water flow rate	l/h		722	1092	1445	1720	2081	2494	2735	2081	2494	2735
	Available static pressure	kPa		85	84	79	71	61	46	40	61	46	40
A7W45	Heating capacity	kW	nom	4.30	6.30	8.30	10.0	12.3	14.1	16.0	12.3	14.1	16.0
	Power input	kW	nom	1.13	1.70	2.16	2.67	3.32	3.92	4.57	3.32	3.92	4.57
	COP	W/W		3.80	3.70	3.85	3.75	3.70	3.60	3.50	3.70	3.60	3.50
	Water flow rate	l/h		740	1084	1428	1720	2116	2425	2752	2116	2425	2752
	Available static pressure	kPa		85	84	79	71	60	47	40	60	47	40
A7W55	Heating capacity	kW	nom	4.40	6.00	7.50	9.50	11.9	13.8	16.0	11.9	13.8	16.0
	Power input	kW	nom	1.49	2.03	2.36	3.06	3.90	4.68	5.61	3.90	4.68	5.61
	COP	W/W		2.95	2.95	3.18	3.10	3.05	2.95	2.85	3.05	2.95	2.85
	Water flow rate	l/h		473	645	806	1021	1279	1484	1720	1279	1484	1720
	Available static pressure	kPa		85	85	85	84	84	80	71	84	80	71
A35W18	Cooling capacity	kW	nom	4.50	6.50	8.30	9.90	12.0	12.9	13.6	12.0	12.9	13.6
	Power input	kW	nom	0.82	1.35	1.64	2.18	3.04	3.49	3.77	3.04	3.49	3.77
	EER	W/W		5.50	4.80	5.05	4.55	3.95	3.70	3.61	3.95	3.70	3.61
	Water flow rate	l/h		774	1118	1428	1703	2064	2219	2339	2064	2219	2339
	Available static pressure	kPa		85	84	79	71	61	56	52	61	56	52
A35W7	Cooling capacity	kW	nom	4.70	6.50	7.45	8.20	11.5	12.4	14.0	11.5	12.4	14.0
	Power input	kW	nom	1.36	2.17	2.22	2.52	4.18	4.96	5.60	4.18	4.96	5.60
	EER	W/W		3.45	3.00	3.35	3.25	2.75	2.50	2.50	2.75	2.50	2.50
	Water flow rate	l/h		808	1118	1281	1410	1978	2133	2408	1978	2133	2408
	Available static pressure	kPa		85	84	81	79	63	60	49	63	60	49
CODE				2CP000AF	2CP000BF	2CP000CF	2CP000DF	2CP000EF	2CP000FF	2CP000GF	2CP000HF	2CP000IF	2CP000JF

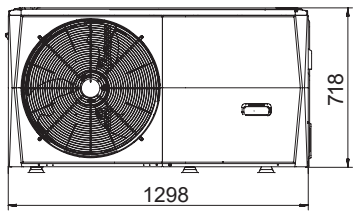
The values are referred to units without options and accessories. Data declared according to EN 14511:
EER (Energy Efficiency Ratio) = ratio of the total cooling capacity to the effective power input of the unit
COP (Coefficient Of Performance) = ratio of the total heating capacity to the effective power input of the unit
A7W35 = source : air in 7°C d.b. 6°C w.b. / plant : water in 30°C out 35°C
A7W45 = source : air in 7°C d.b. 6°C w.b. / plant : water in 40°C out 45°C
A7W55 = source : air in 7°C d.b. 6°C w.b. / plant : water in 47°C out 55°C
A35W18 = source : air in 35°C d.b. / plant : water in 23°C out 18°C
A35W7 = source : air in 35°C d.b. / plant : water in 12°C out 7°C

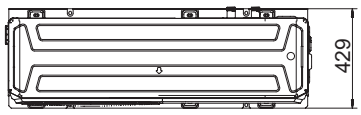
ACCESSORIES	DESCRIPTION
2C0970AF	3kW 230-1-50 electric heating booster for internal installation - OMNIA M mod. 4 - 6
2CP000KF	3kW 230-1-50 electric heating booster for internal installation - OMNIA M mod. 8 - 10 - 12 - 14 - 16
2CP000MF	4,5 kW 400-3-50 electric heating booster for internal installation - OMNIA M mod. 12T - 14T - 16T
2CP000NF	System flow temperature sensor
2CP001EF	KFM OMNIA M 3.2 rubber vibration damping kit (to be used without the 60 liter inertial tank)
2CP000TF	OMNIA M 3.2 rubber vibration damping kit
2CP001FF	OMNIA M 3.2 KFI inertial tank 60 lt

DIMENSIONS

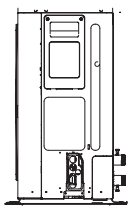
mod. 4-6

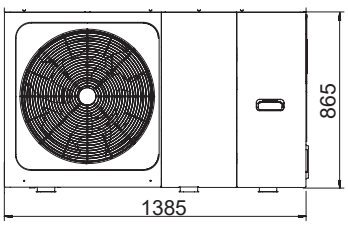


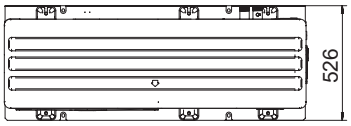




mod. 8 - 10 - 12 - 12T - 14 - 14T - 16 - 16T



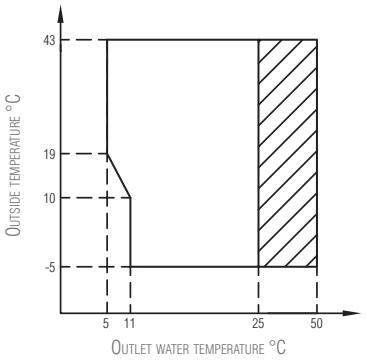




MODEL	4	6	8	10	12	14	16	12T	14T	16T
Packaging (W×H×D)	1384x890x526		1470x1040x565							
Weight Net \ Gross (kg)	86 / 109		105 / 132		129 / 155			144 / 172		

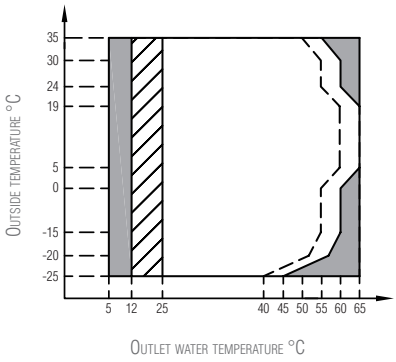
OPERATING LIMITS

COOLING MODE



Operation range by heat pump with possible limitation and protection

HEATING MODE

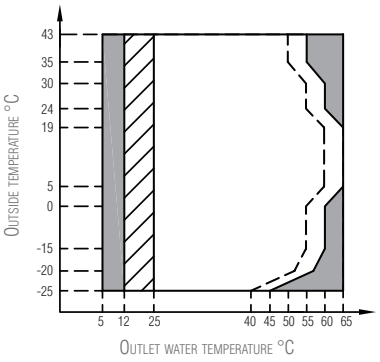


Operation range by heat pump with possible limitation and protection

If IBH (backup heater) /AHS (boiler) setting is valid, only IBH/AHS turns on
If IBH/AHS setting is invalid, only heat pump turns on

Maximum inlet water temperature line for heat pump operation

DHW MODE



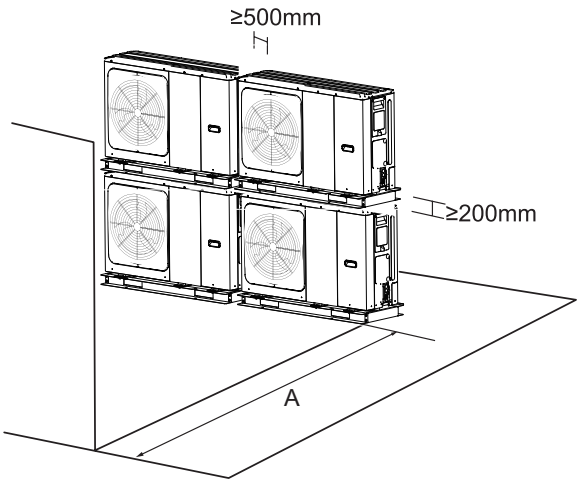
Operation range by heat pump with possible limitation and protection

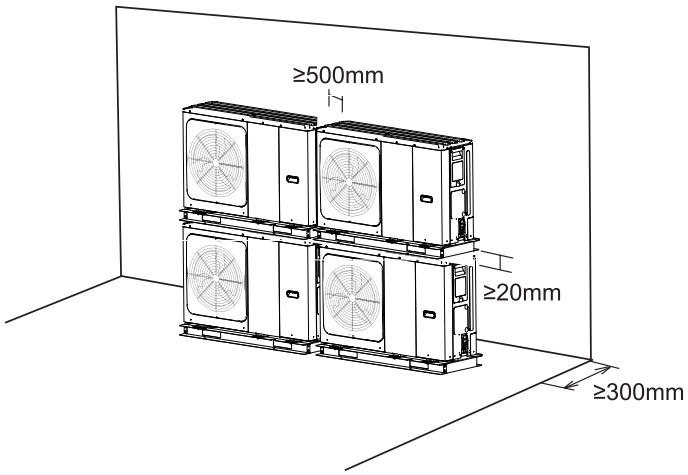
If IBH (backup heater) /AHS (boiler) setting is valid, only IBH/AHS turns on
If IBH/AHS setting is invalid, only heat pump turns on

Maximum inlet water temperature line for heat pump operation

NOTE FOR DHW MODE: outlet water temperature is the temperature of the water produced by the unit and not the DHW temperature available to the user; the DHW temperature is in fact a function of this parameter and of the coil surface of the DHW boiler.

MINIMUM OPERATING AREA





MODEL	4	6	8	10	12	14	16	12T	14T	16T
A (mm)	1000		1500							

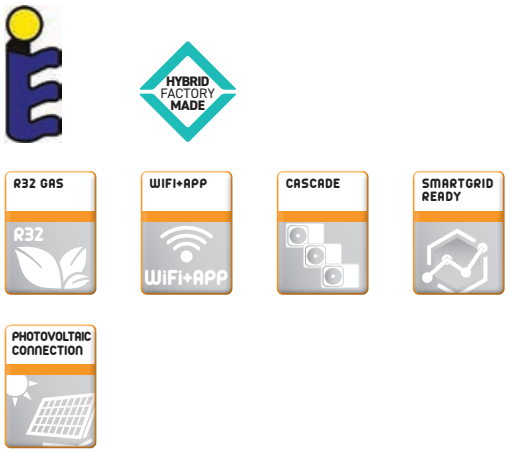
OMNIA M 3.2 22T÷30T

REVERSIBLE HEAT PUMP FOR OUTDOOR INSTALLATION WITH DC INVERTER COMPRESSOR



GENERAL FEATURES:

This series of air-water heat pumps meets the needs of winter and summer air conditioning of residential and commercial installations of medium power.
All units are suitable for outdoor installation and being able to produce water up to 60°C may be employed in systems with radiant floor, fancoils, radiators and for the indirect production of domestic hot water (DHW) via an external boiler (not provided).
The units are characterized by the use of a DC inverter compressor that allows you to modulate the capacity from 30 to 120% of the rated capacity and are complete with a hydronic kit including all the essential components for a quick and safe installation.
The units are characterized by high energy efficiency and low noise level and they can be used as the sole generator of the system or integrated with other energy sources such as backup electric heaters or boiler.
All units are supplied with temperature probe (supplied as standard, assembled by the installer) for domestic hot water tank (DHW) and with external air temperature probe (already installed on the unit) to realize the climatic control in heating and cooling modes.
All the units are accurately built and individually tested in the factory. The installation only requires the electrical and hydraulic connections.



THE CONTROL SYSTEM

The user interface consists of a wired remote controller (5 wires, max length 50 m from the unit) with menu in 11 languages which allows the management of

HEATING AND COOLING SYSTEM, where the heat pump is the sole energy source. The unit, if activated in heat or cool mode, works by modulating the frequency of the compressor to maintain the temperature of the produced water to the setpoint value set by the controller. Through parameter you can use the remote controller (eg. For single-zone systems) as a room thermostat.
DOMESTIC HOT WATER PRODUCTION (DHW). The unit is activated in a heatt mode to keep the temperature of a DHW tank (not supplied) to the setpoint value. It requires a 3-way diverter valve (not supplied) and a temperature sensor (T5 probe, L = 10m, provided) to be inserted into one well of the DHW tank
ADDITIONAL SOURCES OF ENERGY (boiler or electrical heater). Depending on the parameters set, these sources can be activated in integration or replacement of the heat pump when the system is used for space heating or for DHW production. The controller also activate additional energy sources in case the heat pump is not working
ELECTRIC HEATER OF THE DHW TANK. The controller can manage the activation of an electric heater inserted in the DHW tank as a heat integration to the heat pump, for disinfecting function, or as a source of energy reserve for DHW production in case the heat pump is not working.
FAST DHW. This function can be activated manually and it allows you to give priority to DHW production by activating all energy sources (heat pumps, electric heaters, boiler) available for DHW heating to bring in the shortest time possible the DHW tank to the setpoint required.
DISINFECT FUNCTION. You can set from the controller weekly cycles for disinfecting the water in the Dhw tank. In order to successfully execute these cycles, the heat pump must be integrated with DHW electric heater or boiler.
SILENT MODE. If active it allows a reduction of the maximum frequency of the compressor and of the fan speed in order to reduce the noise emitted and the power absorbed by the unit. There are 2 levels of silencing. Through time programming, you can define for 2 daily time bands the desired silent level (eg. during the night).
ON / OFF using an external contact. The unit can be turned on and off (eg. thermostat / remote switch) via an external contact: in this case the unit will operate in the mode set by the controller keyboard.
HEAT / COOL via external contacts. The unit can be activated in heat or cool mode via two external contacts (eg. thermostat that manages the heat and cool demand / remote switch).
ECO MODE. For heating mode it is possible to define daily time band and corresponding set point for ECO mode
WEEKLY SCHEDULING. It allows a schedulation of 6 time bands for each day of the week: for each time band it is possible to define the mode (COOL / HEAT / DHW) and the required setpoint.
ANTIFREEZE PROTECTION. Guaranteed for outdoor air temperature down to -20°C, thanks to the management of the electronic board of the unit which allows you to heat water using antifreeze heater (standard on the plate heat exchanger), the heat pump itself working in heating mode and the electric booster (if installed).
CASCADE FUNCTION - up to 6 units can be controlled together in cascade mode (1 master unit, 5 slave units), with only one remote controller connected to the master unit. The master unit can be dedicated to the production of DHW (domestic hot water). In case of failure of a slave unit, all other units can operate normally.
MANAGEMENT OF UP TO 2 SYSTEM ZONES (1 MIXED AND 1 DIRECT). The unit is able to manage the pumps (not supplied) for both zones and, for the mixed zone only, the mixing valve (not supplied) and the water delivery temperature probe (available as an accessory).
PHOTOVOLTAIC INPUT AND SMART GRID INPUT. The unit is equipped with 2 digital inputs for the management of an input from a photovoltaic system and from the electricity grid. Working logic:
- if the photovoltaic input is closed, the unit turns on DHW mode with DHW setpoint=70°C and(if available) the electrical heater of DHW tank will be turned on. The unit operates in cooling/heating mode as the normal logic.
- If the photovoltaic input is open and smart grid input is closed, the unit operates normally.
- If the photovoltaic input is open and smart grid input is open, the unit turns off DHW mode and can operate in cooling/heating mode for a defined period (settable via parameter) then will be turned off.
CURRENT INPUT LIMITATION BY PARAMETER.
REMOTE CONTROL OF THE UNIT VIA APP (available for IOS and Android).
DETAILED ALARMS DIAGNOSTICS WITH ALARMS HISTORY.
DISPLAY OF ALL OPERATING PARAMETERS.

CONTROL THROUGH CLIMA CONTROL DISPLAY (REM CC) SUPPLIED AS PER STANDARD



REFRIGERANT CIRCUIT

Contained in a compartment protected from the air flow to simplify the maintenance operations, is equipped with DC inverter motor driven compressor twin rotary type to ensure greater dynamic balancing and reduce vibrations. It is placed on vibration-damping rubber supports and wrapped by a double layer of sound-absorbing material to reduce the noise. Furthermore, the compressor is equipped with crankcase oil heater. The circuit is equipped with stainless steel brazed plates heat exchanger complete with antifreeze heater, bi-flow electronic expansion valve, 4-way valve, axial fans with brushless DC motor complete with safety protection grilles, finned coil with anti-corrosion treatment made of copper tubes and aluminium hydrophilic fins. The circuit is controlled by means of temperature probes and pressure transducers and protected by high and low pressure switches.

HYDRAULIC CIRCUIT

Contained in a compartment protected from the air flow to simplify the maintenance operations, is equipped with 3-speed electronic circulator (brushless DC motor), water flow switch, automatic air vent, water manometer, expansion vessel, safety valve, Y water filter (supplied as standard, assembled by the installer). The plate heat exchanger and all the hydraulic pipes are thermally insulated to avoid the formation of condensation and reduce heat loss.

ACCESSORIES

- WATER TEMPERATURE PROBE

The temperature probe can be connected to perform the functions T1 / Tbt1 / Tbt2 / T5 / Tw2 / Tsolar (for more details refer to the installation and user manual of the unit).

- RUBBER ANTIVIBRATION DAMPERS

TECHNICAL DATA

GENERAL DATA			22T	26T	30T
Seasonal space heating energy efficiency class / low temperature (water outlet at 35°C)			A 178	A 177	A 165
Seasonal space heating energy efficiency class / medium temperature (water at 55°C)			A 126	A 123	A 123
PRATED low temperature (produced water 35°C)		kW	22	25	29
SCOP low temperature (produced water 35°C)		W/W	4.53	4.50	4.19
PRATED medium temperature (produced water 55°C)		kW	22.4	26.1	29.7
SCOP medium temperature (produced water 55°C)		W/W	3.22	3.14	3.14
SEER water temp 7°C		W/W	4.70	4.66	4.49
SEER water temp 18°C		W/W	5.67	5.88	5.71
Power supply		V-ph-Hz	380/415-3-50		
Compressor type		-	Twin Rotary DC		
N° compressors		n°	1		
N° refrigerant circuits		n°	1		
Plant side heat exchanger type		-	stainless steel brazed plates		
Source side heat exchanger type			finned coil		
Fans type		-	DC axial		
N° fans		n°	2		
Expansion tank volume		l	8		
Water safety valve set		bar	3		
Hydraulic fittings		"	1-1/4"		
Minimum water content onf the system		l	40		
DHW boiler - minimum surface of the coil (minimum / recommended)	steel	m^2	3.5		
	enamel	m^2	5.0		
Refrigerant type		type	R32		
GWP		kg-CO_2 eq.	675		
Refrigerant charge		kg	5		
		t-CO_2 eq.	3.38		
Control type		-	Remote wired		
SWL - Sound power level Cooling *	A7W35	dB(A)	73	75	77
	A7W55	dB(A)	73	75	77
	Sil. 1	dB(A)	69	71	73
	Sil. 2	dB(A)	66	68	69
SWL - Sound power level Heating *	A35W18	dB(A)	73	75	75
	A35W7	dB(A)	73	75	75
	Sil. 1	dB(A)	69	71	73
	Sil. 2	dB(A)	66	68	69
Max. current input		A	25	27	29

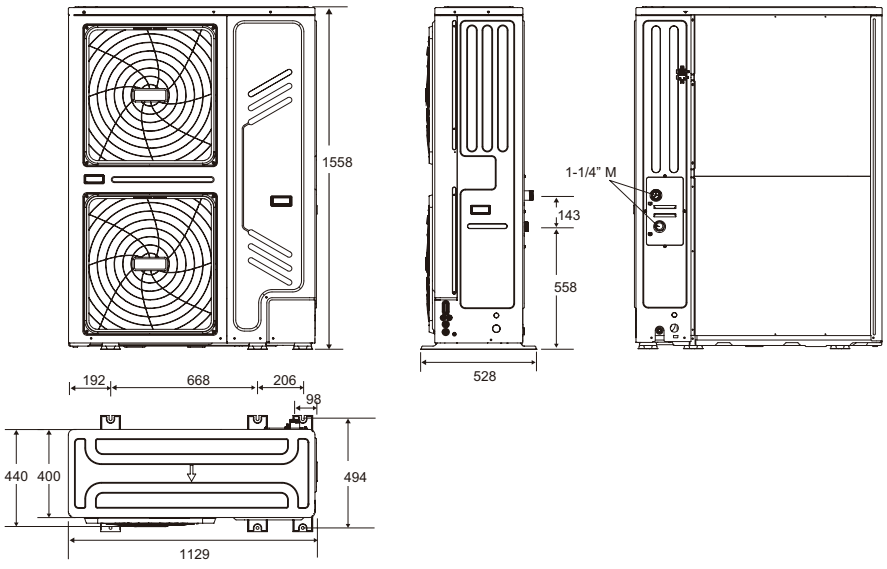
*** : SWL =** Sound power levels, with reference to $1x10^{-12}$ W with unit operating in conditions:
A7W35 = source : air in 7°C d.b. 6°C w.b. / plant : water in 30°C out 35°C
A7W55 = source : air in 7°C d.b. 6°C w.b. / plant : water in 47°C out 55°C
A35W18 = source : air in 35°C d.b. / plant : water in 23°C out 18°C
A35W7 = source : air in 35°C d.b. / plant : water in 12°C out 7°C
Sil. 1 = if silent level 1 active in heating / cooling mode
Sil. 2 = if silent level 2 active in heating / cooling mode
The Total sound power level in dB(A) measured in compliance with ISO 9614 standards.

TECHNICAL DATA

PERFORMANCES DATA				22T	26T	30T
A7W35	Heating capacity	kW	nom	22	26	30.1
	Power input	kW	nom	5	6.37	7.70
	COP	W/W		4.4	4.08	3.91
	Water flow rate	l/h		3784	4472	5160
	Available static pressure	kPa		92	78	60
A7W45	Heating capacity	kW	nom	22	26	30
	Power input	kW	nom	6.47	8.39	10.34
	COP	W/W		3.4	3.1	2.9
	Water flow rate	l/h		3784	4472	5160
	Available static pressure	kPa		92	78	60
A7W55	Heating capacity	kW	nom	22	26	30
	Power input	kW	nom	8.3	10.61	13.04
	COP	W/W		2.65	2.45	2.3
	Water flow rate	l/h		2365	2795	3225
	Available static pressure	kPa		106	103	99
A35W18	Cooling capacity	kW	nom	23	27	31
	Power input	kW	nom	5	6.28	7.75
	EER	W/W		4.6	4.3	4
	Water flow rate	l/h		3612	4472	5160
	Available static pressure	kPa		95	78	60
A35W7	Cooling capacity	kW	nom	21	26	29.5
	Power input	kW	nom	7.12	9.63	11.57
	EER	W/W		2.95	2.7	2.55
	Water flow rate	l/h		3956	4644	5332
	Available static pressure	kPa		90	74	54
CODE				**2CP000QF**	**2CP000RF**	**2CP000SF**
				2CP100QF	**2CP100RF**	**2CP100SF**

The values are referred to units without options and accessories. Data declared according to **EN 14511**: **EER** (Energy Efficiency Ratio) = ratio of the total cooling capacity to the effective power input of the unit **COP** (Coefficient Of Performance) = ratio of the total heating capacity to the effective power input of the unit **A7W35** = source : air in 7°C d.b. 6°C w.b. / plant : water in 30°C out 35°C **A7W45** = source : air in 7°C d.b. 6°C w.b. / plant : water in 40°C out 45°C **A7W55** = source : air in 7°C d.b. 6°C w.b. / plant : water in 47°C out 55°C **A35W18** = source : air in 35°C d.b. / plant : water in 23°C out 18°C **A35W7** = source : air in 35°C d.b. / plant : water in 12°C out 7°C

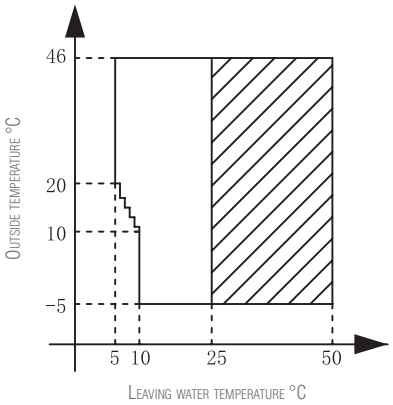
DIMENSIONS



MODEL	22T	26T	30T
Packaging (W×H×D)	1220x1725x565		
Weight Net \ Gross	177 / 206		

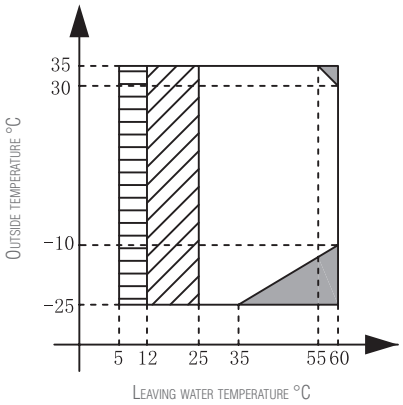
OPERATING LIMITS

COOLING MODE



Water flow temperature drop or rise interval

HEATING MODE

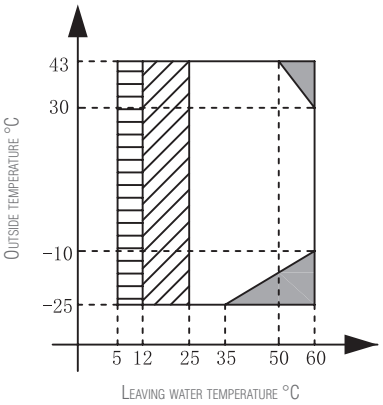


Water flow temperature drop or rise interval

No heat pump operation, IBH or AHS only

If IBH/AHS setting is valid, only IBH/AHS turns on
If IBH/AHS setting is invalid, only heat pump turns on

DHW MODE



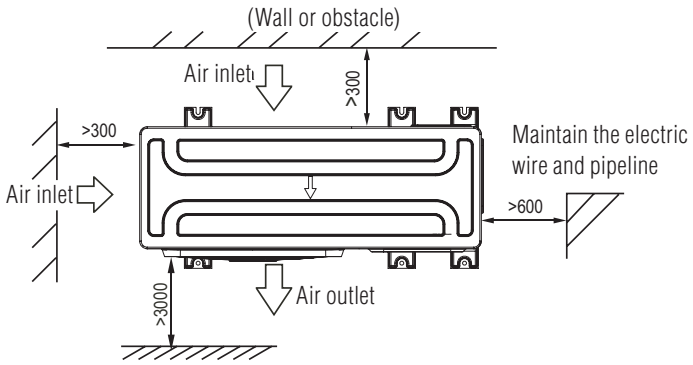
Water flow temperature drop or rise interval

No heat pump operation, IBH or AHS only

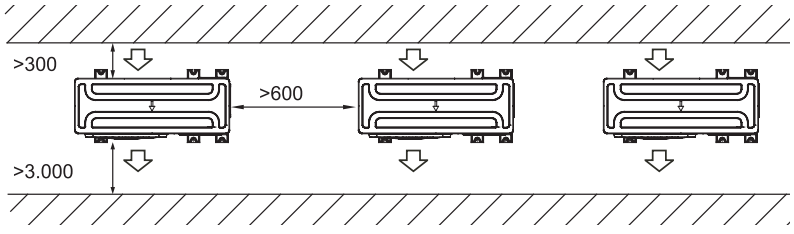
If IBH/AHS setting is valid, only IBH/AHS turns on
If IBH/AHS setting is invalid, only heat pump turns on

MINIMUM OPERATING AREA

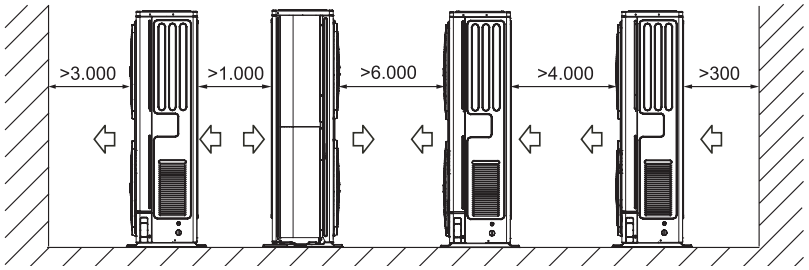
SINGLE UNIT INSTALLATION



PARALLEL CONNECT THE TWO UNITS OR ABOVE



PARALLEL CONNECT THE FRONT WITH REAR SIDES



OMNIA FT

HYDRONIC INDOOR UNIT WITH INTEGRATED DHW TANK IN COMBINATION WITH OMNIA M 3.2







> UNIT DESCRIPTION

This series of hydronic indoor units with integrated DHW tank are designed to combine with any of Ferroli air-water heat pumps, to meet the needs of climatization and DHW of small and medium power residential and commercial installations

> MAIN CHARACTERISTICS

- DHW production up to 60°C only with heat pump (in combination with Omnia M 3.2)
- Reduced dimensions that allow the installation of both sizes (200 and 250) in standard kitchen cabinet recesses (600 mm wide)
- Model FT 250 can be combined with all heat pump models (4kW-16kW 1 phase)
- Hydraulic connections at the top to facilitate the connection of the equipment
- Wide range of hydraulic accessories to install inside the unit. No aditional space needed
- DHW boiler in enamelled carbon steel (190 liters for mod. 200, 240 liters for mod. 250), insulated with thick polyurethane foam, complete with water drain tap and protected as standard with a 9 bar safety valve
- Can be integrated with 1.5 kW electric heater for DHW tank (accessory)
- 3-way diverter valve for DHW production
- System expansion vessel of 10 liters
- Electric system heater (3 kW single-phase or 6 kW three-phase)
- Water system multifunction group (mechanical filter, magnetic ring and dirt separator) complete with automatic air vent, water pressure gauge and 3 bar safety valve
- System filling tap

> ACCESSORIES

- Hydraulic connections kit for an easy and quick installation
- 18 liters system inertial tank complete with water drain valve and automatic air vent
- 2 zone kit (direct and mixed) consisting of 2 circulators, mixing valve and mixed zone delivery temperature probe
- DHW storage electric heater (1.5 kW single-stage for all models)
- 8 liter DHW expansion tank
- Pipes kit for thermal solar
- Solar thermal kit complete with water circulator and plate exchanger

OMNIA M 3.2			4	6	8	10	12	14	16	12T	14T	16T
CODE			2CP000AF	2CP000BF	2CP000CF	2CP000DF	2CP000EF	2CP000FF	2CP000GF	2CP000HF	2CP000IF	2CP000JF
OMNIA FT			200				-					
CODE			0XHN1VWA									
Domestic Hot Water (DHW)	Declared load profile for DHW production	-	L	L	L	L	-					
	Energy Efficiency Class for DHW production	class	A	A	A	A	-					
	DHW Heating Energy Efficiency	η DHW (%)	133	133	130	131	-					
	Warm climate (A14)	SCOP DHW (1)	3.67	3.67	3.62	3.62	-					
	Average climate (A7)	SCOP DHW (1)	3.11	3.1	3.04	3.06	-					
	Cold climate (A2)	SCOP DHW (1)	2.56	2.56	2.52	2.53	-					

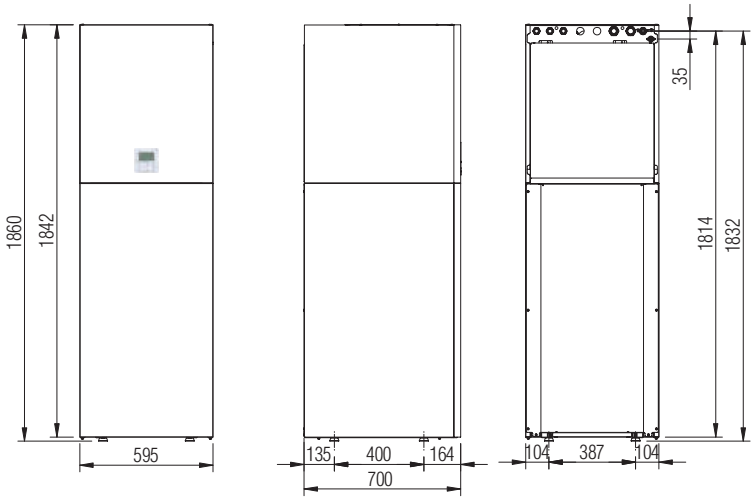
OMNIA M 3.2			4	6	8	10	12	14	16	12T	14T	16T
CODE			2CP000AF	2CP000BF	2CP000CF	2CP000DF	2CP000EF	2CP000FF	2CP000GF	2CP000HF	2CP000IF	2CP000JF
OMNIA FT			250							250T		
CODE			0XHN2VWA							0XHN2WWA		
Domestic Hot Water (DHW)	Declared load profile for DHW production	-	XL	XL	XL	XL	XL	XL	XL	XL	XL	XL
	Energy Efficiency Class for DHW production	class	A	A	A	A	A	A	A	A	A	A
	DHW Heating Energy Efficiency	η DHW (%)	132	132	130	131	135	132	133	135	132	133
	Warm climate (A14)	SCOP DHW (1)	3.75	3.75	3.7	3.7	3.66	3.6	3.61	3.66	3.6	3.61
	Average climate (A7)	SCOP DHW (1)	3.16	3.15	3.09	3.11	3.21	3.14	3.16	3.21	3.14	3.16
	Cold climate (A2)	SCOP DHW (1)	2.6	2.6	2.56	2.57	2.62	2.57	2.58	2.62	2.57	2.58

NOTE: Declared in according to European Regulation 811/2013. Values refer to units without options and accessories. Energy Label rating on a scale of F to A+
(1) SCOP DHW according to EN16147:2017

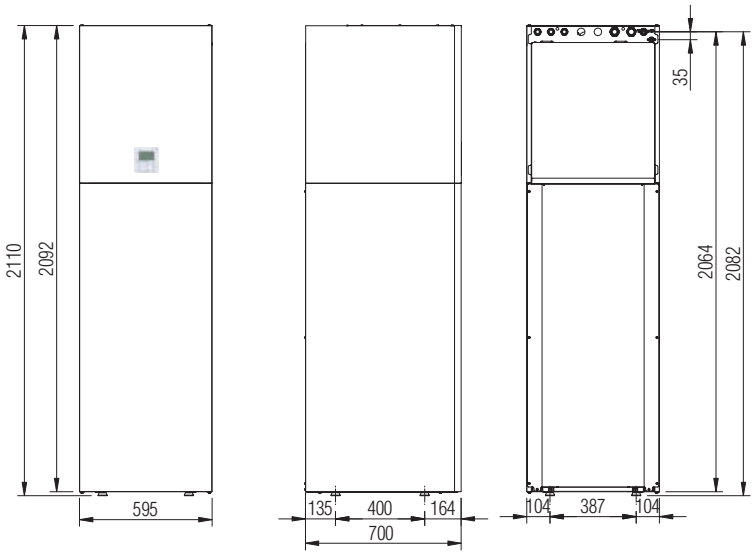
OMNIA FT		200	250	250T
Power supply	V-ph-Hz	230-150	230-1-50	400-3-50
System water connections	-		1" GAS F	
DHW water connections	-		3/4" GAS F	
Volume expansion vessel (installation)	l	10	10	10
Water content of the installation (minimum / recommended)	l	15 / 40	25 / 40	25 / 40
DHW tank volume	l	190	240	240
System electric heater	kW	3	3	6
DHW storage electric heater (accessory)	kW	1,5	1,5	1,5
DHW expansion vessel volume (accessory)	l	8	8	8
System safety water valve set	bar	3	3	3
DHW tank safety water valve set	bar	9	9	9
SWL - Sound Power Level	dB(A)	39	40	40
Max current input	A	14	14	10

DIMENSIONS

Model 200



Model 250



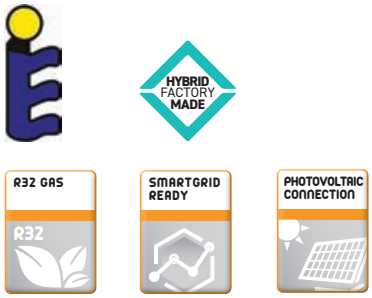
OMNIA FT		200	250	250T
Packaged unit (WxHxD)	mm	700 x 2050 x 800	700 x 2300 x 800	700 x 2300 x 800
Net weight (min-max) (*)	kg	158 / 184	180 / 206	180 / 206
Operation weight (min-max) (*)	kg	349 / 393	421 / 465	421 / 465
Packaged unit weight	kg	164	187	187

(*) min = the weight refers to the basic unit without accessories / **max =** the weight refers to the basic unit with buffer tank and 2 zone kit accessories installed

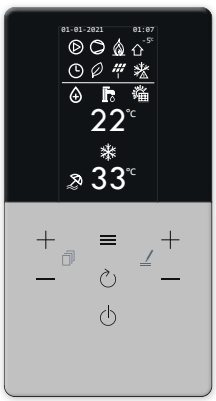
OMNIA S 3.2 SPLIT SYSTEM REVERSIBLE HEAT PUMP WITH DC INVERTER COMPRESSOR







2.8" GRAPHIC INTERFACE WITH CAPSENSE TECHNOLOGY



> MAIN FEATURES:

New range of **Full Inverter** split system heat pumps with **R32** eco-friendly refrigerant.
The range consists of an Outdoor Unit housing the most important elements of the refrigeration circuit, from the compressor to the air-side heat exchanger, which will be connected with the refrigerant pipes to the Indoor Unit.
The Indoor Unit on the other hand houses the main components of the heat source's water circuit, with the pre-installation of all essential parts such as the high-performance circulator and expansion tank, to allow safe, fast and practical installation.
It is supplied standard with an electrical integration of 3kW for single phase models, and 6kW for three-phase models. Installing a split system also offers the undeniable advantage of avoiding the problem of freezing, even at the lowest temperatures **(up to -25°C)** and in the absence of electricity (the only real problem with anti-freeze heating elements in outdoor packaged machines).
All units satisfy the most extreme winter/summer heating/cooling needs with the capacity to produce hot water up to 65°C, making them ideal for practically all heating systems, whether radiant, with fan coil units or radiators, including the production of domestic hot water (DHW) through an external water cylinder.
Ferroli's new **Full Inverter design** uses DC inverter modulation on the machine's 3 main power-consuming components, i.e., the compressor, fan, and pump. This allows modulation of the distributed power by finely tracking the heat load, thus allowing very high energy efficiency and important power savings for the end user.
Moreover, Ferroli's Full Inverter design reduces the inrush current, avoiding power grid fluctuations and thus improving the mission time of components. **The noise levels are among the lowest in the market**, and it can be used either as a stand-alone or integrated with other heat sources, for example a boiler.
All units are supplied with a temperature probe for a DHW cylinder (not supplied, to be assembled by the installer) and an outdoor air temperature probe (pre-assembled on the Outdoor Unit) for temperature regulation in both heating and cooling.

> THE CONTROL SYSTEM

The user interface comes with Capsense technology with a 2.8" graphic display, ensuring easy and extremely simple user interaction with the product. The on-board machine interface easily communicates with the new smart **Connect CRP** systems, which can manage **up to 8 thermostats (7 Connect CRP Zones + 1 Connect CRP** with all programmable thermostat functions) divided into 2 zones, one direct and one mixed. The main control functions include:
MODBUS PROTOCOL for smart control via an external BMS.
HEATING AND COOLING with the heat pump as the only heat source.
Full Inverter modulation means the setpoints can be maintained in both heating and cooling, thus optimising consumption for the user. The temperature curve setting (standard) can improve comfort and further reduce consumption.
DOMESTIC HOT WATER PRODUCTION (DHW). When the DHW Temperature probe (to be installed on the external cylinder, not supplied with the machine) falls below a certain value, the machine enters DHW mode, that is, Heating with dedicated Setpoint. 3-way diverter valve supplied standard.
SMART GRID INPUT FROM PHOTOVOLTAIC SYSTEM AND GRID. The unit is equipped with 2 digital contacts to manage an input from a photovoltaic system and the grid. These are the famous Smart Grid contacts used to optimise consumption and save on bills. The first contact (EVU) tells the heat pump when the photovoltaic system is producing: the heat pump increases the DHW setpoint with the aim of improving self-consumption (where the user has the best earnings).
The contact toward the grid (SG) warns the heat pump when the electrical power costs more (if allowed by the operator), which will then be limited in accordance with customised settings. We invite you to read the manuals for more details.
REMOTE CONTROL VIA APP. Available for iOS and Android using the Connect CRP (optional) DHW
CYLINDER HEATING ELEMENT. In DHW mode, the unit manages a heating element inserted in the cylinder as an integration, anti-legionella function, or reserve source in case of a failure.
FAST DHW. A function making it possible to give priority to DHW production by activating all available power sources, to bring the DHW cylinder to the setpoint in the shortest possible time.
ANTI-LEGIONELLA FUNCTION. Allows the setting of weekly anti-legionella cycles. In order for it work effectively, a heating element must be installed on the DHW cylinder or integrated boiler.
SILENT MODE. When activated, reduces the maximum compressor frequency and fan speed so as to significantly reduce noise levels. Available with 2 different levels and programmable in daily time slots (for example at night).
ON/OFF from external contact. The unit can be activated and deactivated via an external contact (for example a zone thermostat): in this case the operating mode will follow the controller settings.
WARM/COOL from external contacts. The unit can receive an external summer/winter switching signal (for example from a zone thermostat).
ECO. Dedicated setpoint for "Eco" mode. Settable with a daily time slot.
WEEKLY HOURLY PROGRAMMING. The Connect CRP (optional) allows differentiated hourly programming for each day of the week, defining the mode (COOL/WARM/DHW) and operating setpoints for each time slot.
ANTI-FREEZE PROTECTION. Heat pump operation in heating mode with the circulator set to ON and eventually an electric booster.

OUTDOOR UNIT			4	6	8	10	12	14	16	12T	14T	16T
Seasonal efficiency low temperature * (produced water 35°C)		ηs (%)	191	195	206	205	189	186	182	189	186	182
ERP class in heating		Class	A	A	A	A	A	A	A	A	A	A
Seasonal efficiency medium temperature * (produced water 55°C)		ηs (%)	130	138	132	137	135	136	133	135	136	133
ERP class in heating		Class	A	A	A	A	A	A	A	A	A	A
PRATED low temperature (produced water 35°C)		kW	5.5	6.8	8.1	9.2	12	13.7	15.2	12	13.7	15.2
SCOP low temperature (produced water 35°C)		W/W	4.85	4.95	5.21	5.19	4.81	4.72	4.62	4.81	4.72	4.62
PRATED medium temperature (produced water 55°C)		kW	4.4	5.7	6.6	7.7	11.6	12.1	13	11.6	12.1	13
SCOP medium temperature (produced water 55°C)		W/W	3.31	3.52	3.36	3.49	3.45	3.47	3.41	3.45	3.47	3.41
SEER (produced water 7°C)		W/W	4.99	5.34	5.83	5.98	4.89	4.86	4.69	4.86	4.83	4.67
Power supply		V-ph-Hz	220/240-1-50							380/415-3-50		
No. compressors / No. refrigeration circuits		no.	1 x DC Twin Rotary / 1 circuit									
Exchanger type		-	finned coil									
No. and type of fans		-	1 x DC axial									
Refrigerant type / GWP		-	R32 / GWP 675									
Factory refrigerant charge ***		kg	1,5		1,65		1,84					
Refrigeration lines (max length/vert. lift) ****		m	30 / 20									
SWL - Sound power level in heating **	A7W35	dB(A)	55	58	59	60	65	65	69	65	65	69
	Max	dB(A)	60	61	61	62	65	65	69	65	65	69
	Sil. 1 / Sil. 2	dB(A)	56 / 53	56 / 53	57 / 55	58 / 55	62 / 56	62 / 56	63 / 56	62 / 56	62 / 56	63 / 56
SWL - Sound power level in cooling **	A35W18	dB(A)	56	58	60	60	64	64	69	64	64	69
	Max	dB(A)	60	61	61	62	65	65	69	65	65	69
	Sil. 1 / Sil. 2	dB(A)	55 / 52	57 / 54	57 / 54	58 / 54	62 / 56	62 / 56	63 / 56	62 / 56	62 / 56	63 / 56
Maximum input current		A	12	14	16	17	25	26	27	10	11	12
Net weight		kg	58		77		96			112		

INDOOR UNIT		10	16	16T
Power supply	V-ph-Hz	220/240-1-50		380/415-3-50
Exchanger type	-	Brazed stainless steel plate type		
System expansion tank volume	l	10		
System water safety valve calibration	bar	3		
Minimum system water content	l	40		
Internal backup heater	kW	3		6
SWL - Sound power level indoor unit	dB(A)	42	43	
Maximum input current	A	14		10
Net weight	kg	34	36	37

(*) Values obtained according to standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and EU Regulations 811/2013 – 813/2013 – 2281/2016. **(**)** **SWL =** Sound power levels, referenced to 1×10^{-12} W, with the unit operating under the following conditions: **A7W35 =** source: air at 7°C d.b., 6°C w.b. / system: water at 30°C inlet, 35°C outlet. **A35W18 =** source: air at 35°C d.b. / system: water at 23°C inlet, 18°C outlet. The total sound power level in dB(A) is measured in accordance with ISO 9614. **(***)** For pairing with outdoor units models 4–6, a 3/8" SAE to 1/4" SAE reducer for the liquid line Ø 6.35 is supplied. **(****)** The factory refrigerant charge allows a maximum refrigerant line length of 15 metres. It is possible to reach 30 metres with an additional charge during installation.

PERFORMANCE DATA			4	6	8	10	12	14	16	12T	14T	16T
A7W35	Nominal heat output	kW	4.20	6.35	8.40	10.0	12.1	14.5	15.9	12.1	14.5	15.9
	Nominal input power	kW	0.82	1.28	1.63	2.02	2.44	3.15	3.53	2.44	3.15	3.53
	COP	W/W	5.10	4.95	5.15	4.95	4.95	4.60	4.50	4.95	4.60	4.50
	Water flow rate	l/h	722	1092	1445	1720	2081	2494	2735	2081	2494	2735
	External static pressure	kPa	81	76	61	47	58	42	34	58	42	34
A7W45	Nominal heat output	kW	4.30	6.30	8.30	10.0	12.3	14.1	16.0	12.3	14.1	16.0
	Nominal input power	kW	1.13	1.70	2.16	2.67	3.32	3.92	4.57	3.32	3.92	4.57
	COP	W/W	3.80	3.70	3.85	3.75	3.70	3.60	3.50	3.70	3.60	3.50
	Water flow rate	l/h	740	1084	1428	1720	2116	2425	2752	2116	2425	2752
	External static pressure	kPa	81	76	62	47	57	45	33	57	45	33
A35W18	Designed cooling capacity	kW	4.50	6.50	8.30	9.90	12.0	12.9	13.6	12.0	12.9	13.6
	Nominal input power	kW	0.82	1.35	1.64	2.18	3.04	3.49	3.77	3.04	3.49	3.77
	EER	W/W	5.50	4.80	5.05	4.55	3.95	3.70	3.61	3.95	3.70	3.61
	Water flow rate	l/h	774	1118	1428	1703	2064	2322	2563	2064	2322	2563
	External static pressure	kPa	80	75	62	48	58	49	40	59	49	40
A35W7	Designed cooling capacity	kW	4.70	6.50	7.45	8.20	11.5	12.4	14.0	11.5	12.4	14.0
	Nominal input power	kW	1.36	2.17	2.22	2.52	4.18	4.96	5.60	4.18	4.96	5.60
	EER	W/W	3.45	3.00	3.35	3.25	2.75	2.50	2.50	2.75	2.50	2.50
	Water flow rate	l/h	808	1118	1281	1410	1978	2133	2408	1978	2133	2408
	External static pressure	kPa	80	75	68	63	61	56	46	61	56	46
CODE			0XHK4SWA	0XHK6SWA	0XHK8SWA	0XHKASWA	0XHKCSWA	0XHKESWA	0XHKGSWA	0XHLCSWA	0XHLESWA	0XHLGSWA

The values refer to a unit without any optionals or accessories. Data declared pursuant to **EN 14511: EER** (Energy Efficiency Ratio) = ratio of cooling power to input power **COP** (Coefficient Of Performance) ratio of heat output to input power **A7W35** = source : air in 7°C d.b. 6°C w.b. / system : water in 30°C out 35°C **A7W45** = source : air in 7°C d.b. 6°C w.b. / system : water in 40°C out 45°C **A35W18** = source : air in 35°C d.b. / system : water in 23°C out 18°C **A35W7** = source : air in 35°C d.b. / system : water in 12°C out 7°C

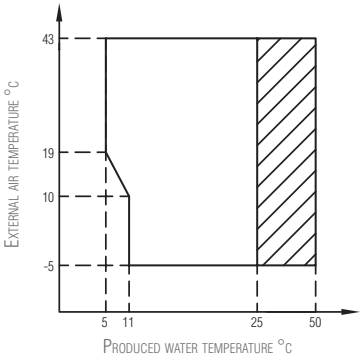
ACCESSORIES

	DESCRIPTION	CODE
	**Connect CRP.** Evolutionary remote control with programmable thermostat function. Can manage up to 7 additional CRP ZONES in 2 separate zones. Also accessible via App	013069XA
	**Connect CRP Zones.** Zone thermostat with RF connection to Connect CRP. Wall-mounted or table-top installation, powered with 2 x AA batteries	013055XA

	DESCRIPTION	CODE
	System flow temperature probe or for hybrid solar/ hybrid system integration	2CP000NF
	Rubber vibration dampers for outdoor unit	2CP000ZF

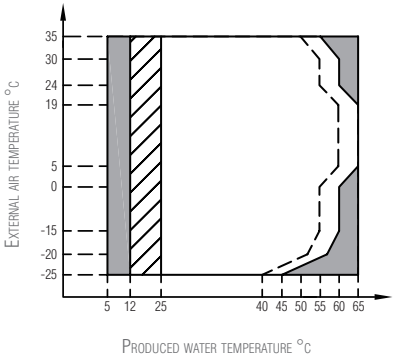
OPERATING LIMITS

COOL MODE



Operating range with heat pump with possible limitation and protection

WARM MODE

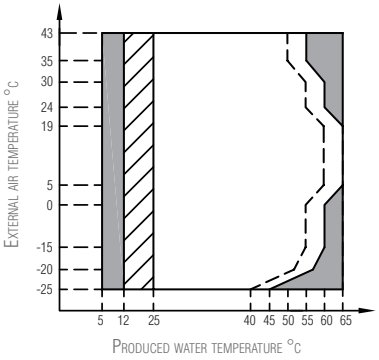


Operating range with heat pump with possible limitation and protection

With IBH (internal backup heater) installed

Maximum inlet water temperature for heat pump operation

DHW MODE



Operating range with heat pump with possible limitation and protection

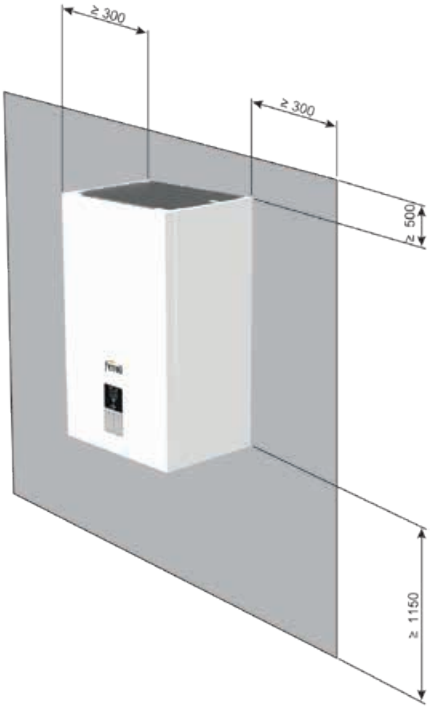
With IBH (internal backup heater) installed

Maximum inlet water temperature for heat pump operation

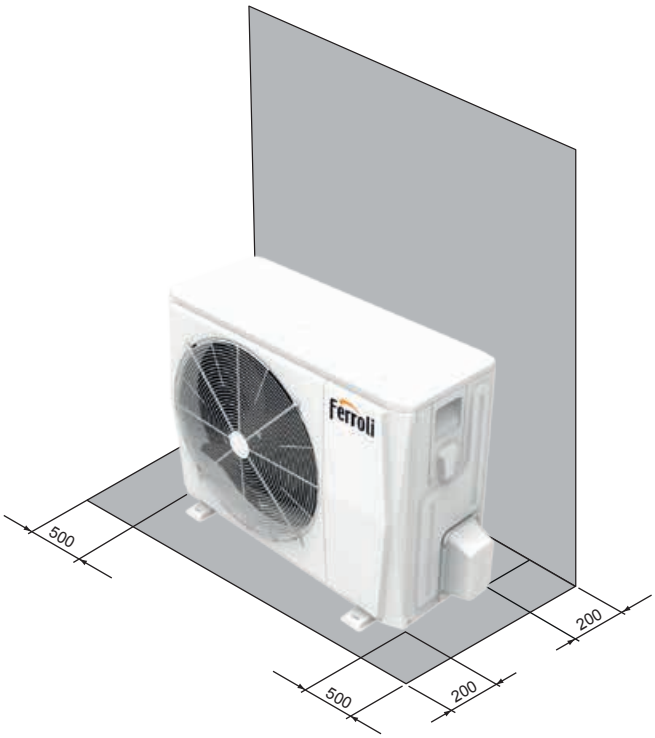
NOTE DHW MODE: produced water temperature implies the temperature of the water produced by the unit and not the temperature of the DHW available to the user, which is a function of this parameter and of the surface area of the coil of any DHW cylinder.

MINIMUM CLEARANCES (in mm)

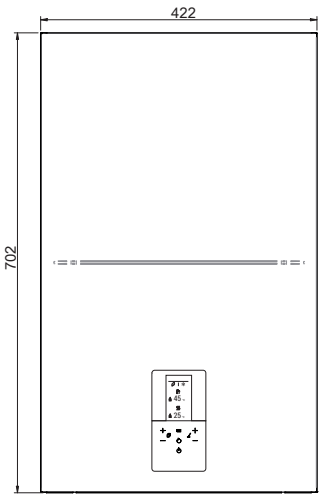
INDOOR UNIT



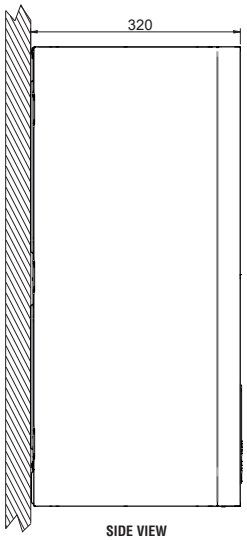
OUTDOOR UNIT



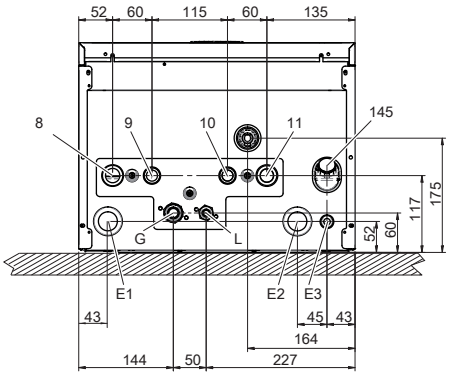
INDOOR UNIT FOOTPRINT (in mm)



FRONT VIEW



SIDE VIEW



VIEW FROM BELOW

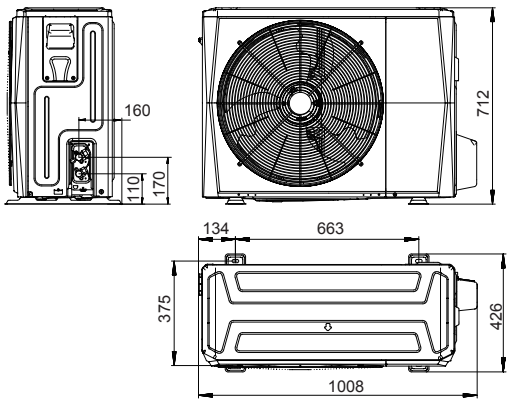
> KEY

- **8** System outlet Ø 1”
- **9** DHW outlet Ø 3/4”
- **10** DHW inlet Ø 3/4”
- **11** System inlet Ø 1”
- **145** Water pressure gauge
- **G** Gas line Ø 15.88 (5/8”)
- **L*** Liquid line Ø 9.52 (3/8”)
- **E1** Cable gland for signal cables
- **E2** Cable gland for power cables
- **E3** Power cable with cable gland

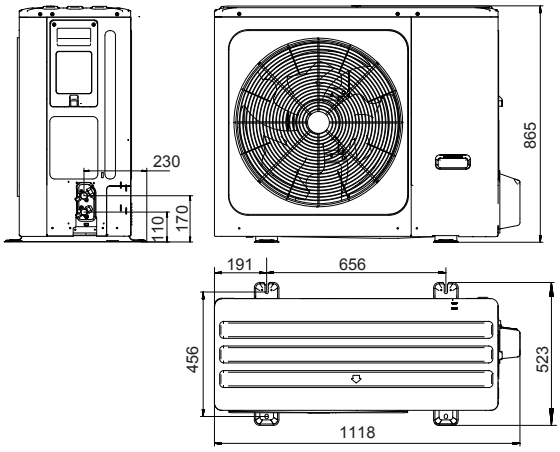
* For combination with outdoor units mod. 4-6, an adapter from 3/8” SAE to 1/4” SAE is supplied for the liquid line Ø 6.35.

OUTDOOR UNIT FOOTPRINT (in mm)

mod. 4 - 6



mod. 8 - 10 - 12 - 12T - 14 - 14T - 16 - 16T



MODELS		4	6	8	10	12	14	16	12T	14T	16T
Packaging (WxHxD)	mm	1065x800x485		1190x970x560							
Packaging weight	kg	65		94		114			130		

OMNIA ST 3.2

REVERSIBLE AND SPLIT SYSTEM HEAT PUMPS WITH DC INVERTER COMPRESSOR AND BUILT-IN DHW TANK



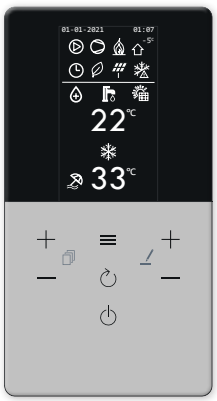
HYBRID FACTORY MADE

R32 GAS

SMARTGRID READY

PHOTOVOLTAIC CONNECTION

2.8" GRAPHIC INTERFACE WITH CAPSENSE TECHNOLOGY



> MAIN FEATURES:

New range of Full Inverter split system heat pumps with **R32 refrigerant gas**, with its low environmental impact.
The range consists of an Outdoor Unit housing the most important elements of the refrigeration circuit, from the compressor to the air-side heat exchanger, which will be connected with the refrigerant pipes to the Indoor Unit.
The Indoor Unit on the other hand houses the main components of the heat source's water circuit, with the pre-installation of all essential parts such as the high-performance circulator and expansion tank, to allow safe, fast and practical installation.
The Indoor Unit is also equipped with electrical integration, which will be 3kW for single-phase models and 6kW for three-phase models. OMNIA ST 3.2 models differ from OMNIA S 3.2 models because they feature a built-in Domestic Hot Water tank directly in the Indoor Unit.
The sizes from 4 to 10 feature a **190L DHW tank**, while the sizes from 12 to 16T feature a **240L tank**. This tank can then be integrated with an electric heater (accessory) or a solar thermal system (supplied separately).
Installing a split system also offers the undeniable advantage of avoiding the problem of freezing, even at the lowest temperatures **(down to -25°C**) and in the absence of electricity (the only real problem with anti-freeze heating elements in outdoor packaged machines). All units meet the most extreme **winter and summer air conditioning** requirements of **small and medium power systems**; they can indeed produce **hot water up to 65°C**, which makes them suitable for basically all heating systems, whether of the radiant, fan coil or radiator type.
Ferroli's new **Full Inverter design** uses DC inverter modulation on the machine's 3 main power-consuming components, i.e., the compressor, fan, and pump. This allows modulation of the distributed power by finely tracking the heat load, thus allowing **very high energy efficiency and important power savings** for the end user.
Moreover, Ferroli's **Full Inverter design** reduces the inrush current, avoiding power grid fluctuations and thus improving the mission time of components. **The sound levels are among the lowest on the market,** so it can be used as the only heat source in the system, instead of being integrated with other heat sources, such as a boiler **(see our Factory Made Hybrid Systems).**

> THE CONTROL SYSTEM

The multilingual user interface comes with Capsense technology with a 2.8" graphic display, which allows the user to interact with the product in an extremely simple way. The on-board interface communicates easily with the new smart **Connect CRP** systems, which can manage **up to 8 thermostats** (7 **Connect Evo Zones** + 1 **Connect CRP** which in turn has all the programmable thermostat functions) divided into 2 zones, one direct and one mixed.
The main control functions include:
MODBUS PROTOCOL for smart control via an external **BMS,** if any.
HEATING AND COOLING with the heat pump as the only heat source.
Full Inverter modulation means the setpoints can be maintained in both heating and cooling, thus optimising consumption for the user. The temperature curve setting (standard) can improve comfort and further reduce consumption.
DOMESTIC HOT WATER PRODUCTION (DHW). When the DHW Temperature probe falls below a certain value, the machine enters DHW mode, i.e. Heating with a dedicated Setpoint by diverting to the built-in DHW tank.
ADDITIONAL ENERGY SOURCES (boiler or heating element). The heat pump can activate these additional sources as an Integration or as a Replacement, based on customisable parameters. In addition to these settings, the additional sources can be activated in an emergency, if the heat pump is not working.
SMART GRID INPUT FROM PHOTOVOLTAIC SYSTEM AND GRID. The unit is equipped with 2 digital contacts to manage an input from a photovoltaic system and the grid. These are the famous **Smart Grid** contacts used to **optimise consumption and save on bills**. The first contact (EVU) will tell the heat pump when the photovoltaic system is producing. The heat pump will raise the DHW setpoint with a view to improving self-consumption (making it as advantageous as possible for the user). The contact toward the grid (SG) warns the heat pump when the electrical power costs more (if allowed by the operator), which will then be limited in accordance with customised settings. We invite you to read the manuals for more details.
REMOTE CONTROL VIA APP. Available for iOS and Android, with the use of Connect CRP (optional). **DHW CYLINDER HEATING ELEMENT.** In DHW mode, the unit manages a heating element inserted in the cylinder as an integration, anti-legionella function, or reserve source in case of a failure.
FAST DHW. A function making it possible to give priority to DHW production by activating all available power sources, to bring the DHW cylinder to the setpoint in the shortest possible time.
ANTI-LEGIONELLA FUNCTION. Allows the setting of weekly anti-legionella cycles. For correct operation, the boiler will be used as an integration or the heating element on the DHW cylinder, if any.
SILENT MODE. When activated, reduces the maximum compressor frequency and fan speed so as to significantly reduce noise levels. 2 different levels available, which can be programmed according to daily time slots (e.g. night).
ON/OFF from external contact. The unit can be activated and deactivated via an external contact (e.g. a zone thermostat): in this case the operating mode will follow the controller settings.
WARM/COOL from external contacts. The unit can receive an external summer/winter switching signal (e.g. from a zone thermostat).
ECO. Dedicated setpoint for "Eco" mode. Settable also by time slots.
WEEKLY HOURLY PROGRAMMING. The **Connect CRP** (optional) allows for differentiated hourly programming for each day of the week, defining the mode (COOL/WARM/DHW) and operating setpoints for each time slot.
ANTI-FREEZE PROTECTION with hot operation of the heat pump with circulator ON and electric booster, if any.

OUTDOOR UNIT			4	6	8	10	12	14	16	12T	14T	16T
Seasonal efficiency low temperature * (produced water 35°C)		ηs (%)	191	195	206	205	189	186	182	189	186	182
ERP class in heating		Class	A	A	A	A	A	A	A	A	A	A
Seasonal efficiency medium temperature * (produced water 55°C)		ηs (%)	130	138	132	137	135	136	133	135	136	133
ERP class in heating		Class	A	A	A	A	A	A	A	A	A	A
PRATED low temperature (produced water 35°C)		kW	5.5	6.8	8.1	9.2	12	13.7	15.2	12	13.7	15.2
SCOP low temperature (produced water 35°C)		W/W	4.85	4.95	5.21	5.19	4.81	4.72	4.62	4.81	4.72	4.62
PRATED medium temperature (produced water 55°C)		kW	4.4	5.7	6.6	7.7	11.6	12.1	13	11.6	12.1	13
SCOP medium temperature (produced water 55°C)		W/W	3.31	3.52	3.36	3.49	3.45	3.47	3.41	3.45	3.47	3.41
SEER (produced water 7°C)		W/W	4.99	5.34	5.83	5.98	4.89	4.86	4.69	4.86	4.83	4.67
Declared DHW profile		ηs (%)	L	L	L	L	XL	XL	XL	XL	XL	XL
DHW production energy efficiency class		Class	A	A	A	A	A	A	A	A	A	A
Power supply		V-ph-Hz	220/240-1-50							380/415-3-50		
No. compressors / No. refrigeration circuits		no.	1 x DC Twin Rotary / 1 circuit									
Exchanger type		-	finned coil									
No. and type of fans		-	1 x DC axial									
Refrigerant type / GWP		-	R32 / GWP 675									
Factory refrigerant charge ***		kg	1.5		1.65		1.84					
Refrigeration lines (max length/vert. lift) ****		m	30 / 20									
SWL - Sound power level in heating mode **	A7W35	dB(A)	55	58	59	60	65	65	69	65	65	69
SWL - Sound power level in cooling mode **	A35W18	dB(A)	56	58	60	60	64	64	69	64	64	69
Maximum input current		A	12	14	16	17	25	26	27	10	11	12
Net weight		kg	58		77		96			112		

INDOOR UNIT		10	16	16T
Power supply	V-ph-Hz	220/240-1-50		380/415-3-50
Exchanger type	-	Brazed stainless steel plate type		
System expansion tank volume	L	10		
System water safety valve calibration	bar	3		
Minimum system water content	L	40		
DHW cylinder volume	L	190	240	
DHW cylinder/system electric heat. (access.)	kW	3 / 1.5		6 / 1.5
DHW expansion tank volume (accessory)	L	8		
DHW cylinder water safety valve calibration	bar	9		
SWL - Sound power level indoor unit	dB(A)	42	43	
Maximum input current	A	14		10
Net weight	kg	192	224	

(*) Values obtained according to standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and European Regulations EU 811/2013 - 813/2013 - 2281/2016.
(**) SWL = Sound power levels, referenced to $1x10^{-12}$ W with the unit operating under the following conditions: A7W35 = source: air at 7°C d.b. 6°C w.b. / system: water at 30°C in 35°C out. A35W18 = source: air at 35°C d.b. / system: water at 23°C in 18°C out. The total sound power level in dB(A) is measured in accordance with ISO 9614.
(***) For coupling with outdoor units mod. 4–6, a 3/8" SAE to 1/4" SAE reducer is supplied for the liquid line Ø 6.35.
(****) The factory refrigerant charge allows for a maximum refrigerant line length of 15 metres. It is possible to reach 30 metres with an additional charge during installation.

PERFORMANCE DATA			4	6	8	10	12	14	16	12T	14T	16T
A7W35	Nominal heat output	kW	4.2	6.35	8.4	10	12.1	14.5	15.9	12.1	14.5	15.9
	Nominal input power	kW	0.82	1.28	1.63	2.02	2.44	3.15	3.53	2.44	3.15	3.53
	COP	W/W	5.1	4.95	5.15	4.95	4.95	4.6	4.5	4.95	4.6	4.5
A7W45	Nominal heat output	kW	4.3	6.3	8.3	10	12.3	14.1	16	12.3	14.1	16
	Nominal input power	kW	1.13	1.7	2.16	2.67	3.32	3.92	4.57	3.32	3.92	4.57
	COP	W/W	3.8	3.7	3.85	3.75	3.7	3.6	3.5	3.7	3.6	3.5
A35W18	Designed cooling capacity	kW	4.5	6.5	8.3	9.9	12	12.9	13.6	12.0	12.9	13.6
	Nominal input power	kW	0.82	1.35	1.64	2.18	3.04	3.49	3.77	3.04	3.49	3.77
	EER	W/W	5.5	4.8	5.05	4.55	3.95	3.70	3.61	3.95	3.70	3.61
A35W7	Designed cooling capacity	kW	4.7	6.5	7.45	8.2	11.5	12.4	14	11.5	12.4	14
	Nominal input power	kW	1.36	2.17	2.22	2.52	4.18	4.96	5.6	4.18	4.96	5.6
	EER	W/W	3.45	3	3.35	3.25	2.75	2.5	2.5	2.75	2.5	2.5
			0XHT4SWA	0XHT6SWA	0XHT8SWA	0XHTASWA	0XHTCSWA	0XHTESWA	0XHTGSWA	0XHUCSWA	0XHUESWA	0XHUGSWA

The values refer to a unit without any optionals or accessories. Data declared pursuant to **EN 14511**: **EER** (Energy Efficiency Ratio) = ratio of cooling power to input power **COP** (Coefficient Of Performance) ratio of heat output to input power **A7W35** = source: air in 7°C d.b. 6°C w.b. / system: water in 30°C out 35°C **A7W45** = source: air in 7°C d.b. 6°C w.b. / system: water in 40°C out 45°C **A35W18** = source: air in 35°C d.b. / system: water in 23°C out 18°C **A35W7** = source: air in 35°C d.b. / system: water in 12°C out 7°C

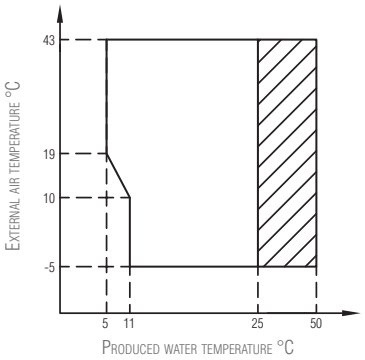
ACCESSORIES

	DESCRIPTION	CODE
	**Connect CRP.** Evolutionary remote control with programmable thermostat function. Can manage up to 7 additional CRP ZONES in 2 separate zones. Also accessible via App	013069XA
	**Connect CRP Zones.** Zone thermostat with RF connection towards Connect CRP. Wall-mounted or table-top installation, powered with 2 x AA batteries	013055XA
	System flow temperature probe or for hybrid solar/ hybrid system integration	2CP000NF
	Rubber anti-vibration kit for outdoor unit	2CP000ZF
	18L inertial storage kit	012084W0

	DESCRIPTION	CODE
	Solar pipe kit	012094W0
	PHE solar kit	012095W0
	2-Zone kit (direct and mixed)	012091W0
	Wall connection pipe kit	012092W0
	1.5 kW DHW heating element	012090W0
	Expansion tank for 8L DHW	012093W0

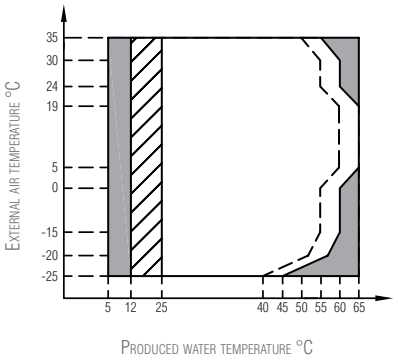
OPERATING LIMITS

COOL MODE



Operating range with heat pump with possible limitation and protection

WARM MODE

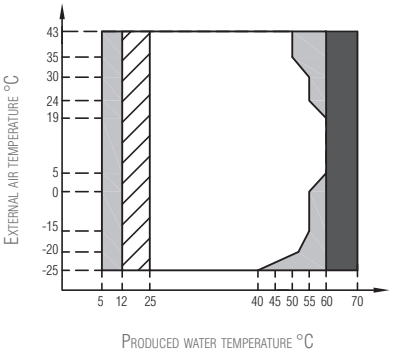


Operating range with heat pump with possible limitation and protection

With IBH (system heating element heat.) installed

Maximum inlet water temperature for heat pump operation

DHW MODE



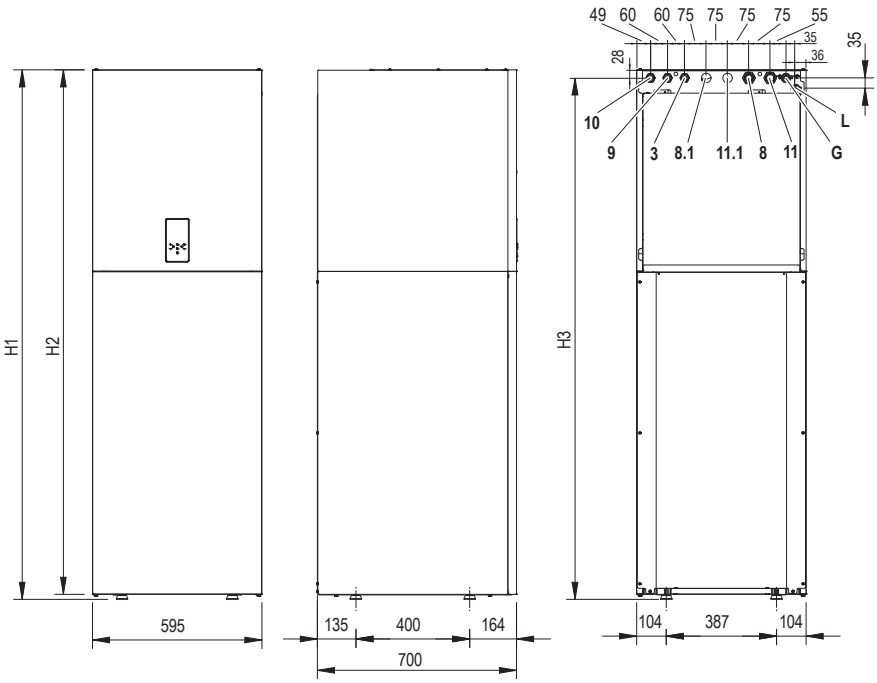
Operating range with heat pump with possible limitation and protection

With IBH (system heating element heat.) installed

With TBH (DHW heating element heat.) installed

NOTE DHW MODE: the produced water temperature is the temperature of the water produced by the unit and not the DHW temperature available to the user, which is a function of this parameter and of the surface of the coil of the DHW cylinder, if any.

OVERALL DIMENSIONS OF INDOOR UNIT (in mm)



FRONT VIEW | SIDE VIEW | REAR VIEW

VIEW FROM ABOVE

MODELS		10	16
H1	mm	1860	2110
H2	mm	1842	2092
H3	mm	1832	2082

> LEGEND

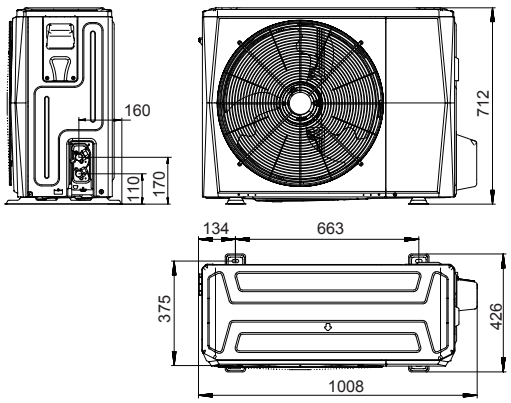
8	System outlet Ø 1”
8.1	System outlet for zone 2 Ø 1”
9	DHW outlet Ø 3/4”
10	DHW inlet Ø 3/4”
11	System inlet Ø 1”
11.1	System inlet for zone 2 Ø 1”
145	Water pressure gauge
G	Gas line Ø 15.88 (5/8”)
L*	Liquid line Ø 9.52 (3/8”)
E1	Cable gland for signal cables
E2	Cable gland for power cables
E3	Power cable with cable gland

* For combination with outdoor units mod. 4-6, an adapter from 3/8” SAE to 1/4” SAE is supplied for the liquid line Ø 6.35.

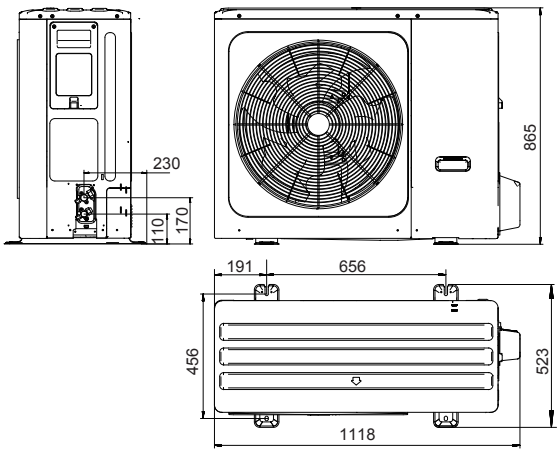
** Distance between hydraulic connections and refrigeration connections from the rear support point.

OVERALL DIMENSIONS OF OUTDOOR UNIT (in mm)

mod. 4 - 6



mod. 8 - 10 - 12 - 12T - 14 - 14T - 16 - 16T



MODELS		4	6	8	10	12	14	16	12T	14T	16T
Packaging (WxHxD)	mm	1065x800x485		1190x970x560							
Packaging weight	kg	65		94		114			130		

OMNIA SW-T 3.2

REVERSIBLE AND SPLIT HEAT PUMPS WITH DC INVERTER COMPRESSOR AND INTEGRATED DHW STORAGE



> GENERAL FEATURES:

Full Inverter split heat pumps with low environmental impact R32 gas with low environmental impact. The split installation has the advantage of avoiding any problem of freezing in the outdoor unit, even at the coldest temperatures **(to -25°C)** and in the absence of power.
OMNIA SW-T 3.2 is a heat pump, for **heating and the production of domestic hot water**, designed for applications in small and medium-sized housing units.
Each of its components has been designed with the **renovation of existing heating systems** in mind and for the **replacement of boilers** and electric water heaters, ensuring the same comfort, with an efficient and environmentally friendly solution.
All the units meet the most extreme winter climate control requirements, in fact they can produce **hot water up to 65°C**, which makes them suitable for practically all heating systems.
The generators consist of an outdoor unit with the heart of the cooling circuit, from the compressor to the fan with the air side exchanger, which will be connected to the refrigerant gas pipes towards the indoor unit which, instead, contains the hub of the hydraulic circuit (complete with all system components) and the **100-liter DHW storage tank**.
The indoor unit is also equipped with two electrical integrations: **3kW for the heating system and 1.2 kW for DHW production**.
The new Full Inverter concept by Ferroli uses DC inverter modulations on the 3 main energy-intensive components of the machine, i.e. compressor, fan and pump. This makes it possible to modulate the power by finely tracking the thermal load and offering the user very high efficiencies and significant energy saving.
The Ferroli Full Inverter concept also makes it possible to reduce inrush currents, avoiding sudden changes in the grid and ensuring a longer service life for the components.
The quality of the components and production processes has made it possible to achieve one of the **lowest noise levels** among the units on the market today.

> THE CONTROL SYSTEM

The user interface is equipped with **Capsense** technology with a 2.8" graphic display, which allows the user to interact easily and simply. The interface on the machine communicates with the **Connect CRP** systems, which can manage **up to 8 thermostats** (7 **Connect CRP Zone** + 1 **Connect CRP**) divided into 2 zones, one direct and one mixed.

MODBUS PROTOCOL for smart management via possible external **BMS**
HEATING AND COOLING with singular generator and heat pump. Full Inverter modulation makes it possible to maintain the desired setpoints, optimizing consumption for the user. The setting of climate curves (as standard) can improve comfort and further reduce consumption
DOMESTIC HOT WATER (DHW) PRODUCTION It activates when the DHW temperature probe goes below the DHW setpoint
ADDITIONAL ENERGY SOURCES (heating elements). The heat pump can activate these additional sources in Integration or Replacement, based on customizable parameters. In addition to these settings, the call can occur in an emergency, where the heat pump is faulty
PHOTOVOLTAIC AND GRID SMART GRID INPUTS The unit is equipped with 2 digital inputs (Smart Grid contacts) for managing an input from the photovoltaic system and from the electricity grid and optimizing consumption and bill costs
REMOTE CONTROL VIA APP Available for iOS and Android in combination with Connect CRP (optional)
DHW STORAGE TANK HEATING ELEMENT In DHW mode, the unit manages a heating element inserted in the storage tank as integration, anti-legionella function or as a reserve source, in case of a fault
FAST DHW A function to give priority to DHW production by activating all available energy sources, to bring the DHW storage tank to the setpoint in the shortest possible time
ANTI-LEGIONELLA FUNCTION For setting anti-legionella weekly cycles.
SILENT MODE Reduces compressor frequency and fan speed to reduce noise. 2 different levels are available, programmable in daily time bands (e.g. night)
ON/OFF from external contact. The unit can be activated and deactivated via an external contact (e.g. from a zone thermostat): in this case the operating mode will follow the controller settings
HEAT/COOL from external contacts. The unit can receive a summer/winter switching signal from outside (e.g. from the zone thermostat)
ECO Dedicated setpoint for "Eco" operation. Settable also for time bands
WEEKLY TIME PROGRAMMING The Connect CRP (optional) allows time programming for each day of the week by defining the mode (COOL/HEAT/DHW) and setpoint for each band
FROST PROTECTION with heat pump working in heating mode with circulating pump ON and possible electric booster

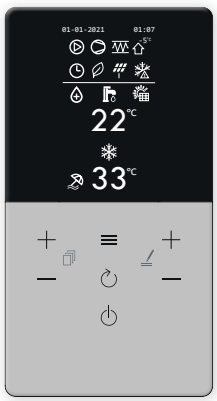
HYBRID FACTORY MADE

R32 GAS

SMARTGRID READY

PHOTOVOLTAIC CONNECTION

2.8" GRAPHIC INTERFACE WITH CAPSENSE TECHNOLOGY



OUTDOOR UNIT TECHNICAL DATA		4	6	8	10
Seasonal efficiency low temperature * (produced water 35°C)	ηs (%)	191	195	206	205
ERP class in heating	Class	A	A	A	A
Seasonal efficiency medium temperature * (produced water 55°C)	ηs (%)	130	138	132	137
ERP class in heating	Class	A	A	A	A
PRATED low temperature (produced water 35°C)	kW	5.5	6.8	8.1	9.2
SCOP low temperature (produced water 35°C)	W/W	4.85	4.95	5.21	5.19
PRATED medium temperature (produced water 55°C)	kW	4.4	5.7	6.6	7.7
SCOP medium temperature (produced water 55°C)	W/W	3.31	3.52	3.36	3.49
SEER (produced water 7°C)	W/W	4.99	5.34	5.83	5.98
Electrical power supply	Vac / Hz	220-240 / 50			
Compressors / Cooling circuits	no.	1 / 1			
Type of exchanger		Finned coil			
No. and Type of fans		1 x Axial DC			
Type of refrigerant / GWP		R32 / GWP 675			
Factory refrigerant charge ***	Kg	1.5	1.65	1.84	1.84
Cooling lines (max. length / max. vertical difference) ****	m	30/20			
SWL - Sound power level in heating **	dB(A)	56	58	59	60
SWL - Sound power level in cooling **	dB(A)	56	58	60	60
Max. current absorbed	A	12	14	16	17
Net weight	Kg	58		77	

INDOOR UNIT TECHNICAL DATA		4	6	8	10
Declared DHW profile	ηs (%)	M	M	M	M
DHW production energy efficiency class	Class	A	A	A	A
Electrical power supply	Vac / Hz	220-240 / 50			
Heating system: expansion vessel volume / max. pressure	liters / bar	10 / 3			
Heating system plumbing connections		3/4" GAS M			
DHW plumbing connections		1/2" GAS M			
Liquid line cooling connections		3/8" SAE / f 9.52			
Gas line cooling connections		5/8" SAE / f 15.88			
DHW storage tank volume	liters	100			
System electric heater / DHW storage tank	kW	3 / 1.2			
DHW: expansion vessel volume / max. working pressure	liters / bar	5 / 9			
SWL - indoor unit sound power level	dB(A)	39			
Net weight	Kg	95/103			

(*) Values obtained according to standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and European Regulations EU 811/2013 - 813/2013 - 2281/2016.
(**) SWL = Sound power levels, referenced to $1x10^{-12}$ W with the unit operating under the following conditions: A7W35 = source: air at 7°C d.b. 6°C w.b. / system: water at 30°C in 35°C out. A35W18 = source: air at 35°C d.b. / system: water at 23°C in 18°C out. The total sound power level in dB(A) is measured in accordance with ISO 9614.
(***) For coupling with outdoor units mod. 4–6, a 3/8" SAE to 1/4" SAE reducer is supplied for the liquid line Ø 6.35.
(****) The factory refrigerant charge allows for a maximum refrigerant line length of 15 metres. It is possible to reach 30 metres with an additional charge during installation.

PERFORMANCE DATA			4	6	8	10
A7W35	Nominal heat output	kW	4.2	6.35	8.4	10
	Nominal absorbed power	kW	0.82	1.28	1.63	2.02
	COP	W/W	5.1	4.95	5.15	4.95
A7W45	Nominal heat output	kW	4.3	6.3	8.3	10
	Nominal absorbed power	kW	1.13	1.7	2.16	2.67
	COP	W/W	3.8	3.7	3.85	3.75
A35W18	Nominal cooling capacity	kW	4.5	6.5	8.3	9.9
	Nominal absorbed power	kW	0.82	1.35	1.64	2.18
	EER	W/W	5.5	4.8	5.05	4.55
A35W7	Nominal cooling capacity	kW	4.7	6.5	7.45	8.2
	Nominal absorbed power	kW	1.36	2.17	2.22	2.52
	EER	W/W	3.45	3	3.35	3.25
			0XHM4SWA	**0XHM6SWA**	**0XHM8SWA**	**0XHMASWA**

The values refer to units without possible options or accessories. Data declared according to EN 14511: **EER** (Energy Efficiency Ratio) = ratio of cooling capacity to absorbed power **COP** (Coefficient Of Performance) = ratio of heat output to absorbed power **A7W35** = source : air at 7°C d.b. 6°C w.b. / system : water at 30°C out 35°C **A7W45** = source : air at 7°C d.b. 6°C w.b. / system : water at 40°C out 45°C **A35W18** = source : air at 35°C d.b. / system : water at 23°C out 18°C **A35W7** = source : air at 35°C d.b. / system : water at 12°C out 7°C

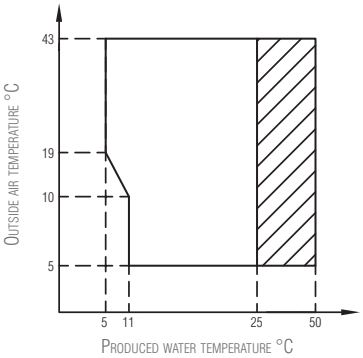
ACCESSORIES

	DESCRIPTION	CODE
	**Connect CRP.** Advanced remote control with chronothermostat function. Manages up to 7 additional CRP ZONE in 2 separate zones. Also accessible via App	013069XA
	**Connect CRP Zone.** Zone thermostat with RF connection to Connect CRP. Wall or table-top installation, power supply with 2 AA batteries	013055XA
	Plumbing connection kit with faucets (DHW inlet, system flow and return), pipes and fittings. Arranged for installation combined with the dirt separator and the polyphosphate doser.	012101X0
	Rubber anti-vibration kit for outdoor unit	2CP000ZF

	DESCRIPTION	CODE
	Spacer kit for generator replacement with wall mounts	016010X0
	Mount cover kit	016011X0
	**DEFENDER** Magnetic dirt separator filter in glass-reinforced nylon with stainless steel filter mesh sleeve	0YBSHTX0
	**DOSAPLUS** Double action polyphosphate/silicate dosing filter kit	0YBD0QX0

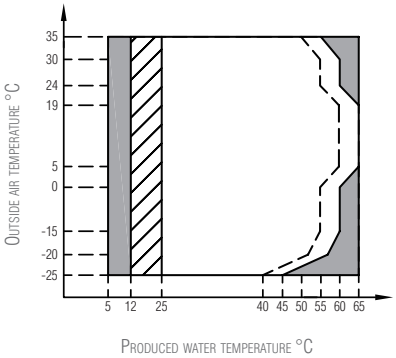
OPERATING LIMITS

COOL MODE



Operating range with heat pump with possible limitation and protection

HEAT MODE

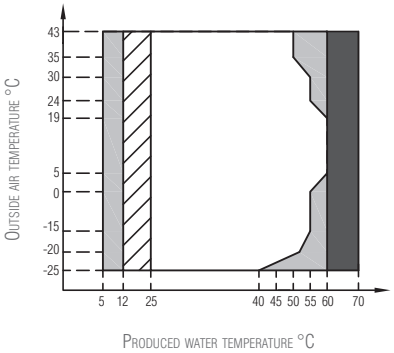


Operating range with heat pump with possible limitation and protection

With IBH (system electric heater) installed

Max. inlet water temperature line for heat pump operation

DHW MODE



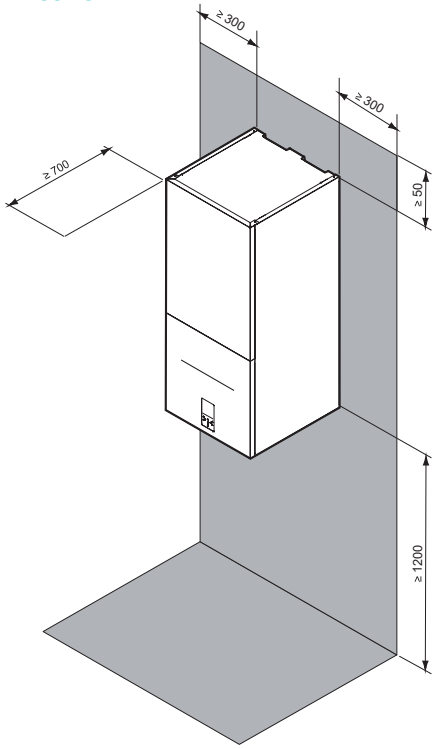
Operating range with heat pump with possible limitation and protection

With IBH (system electric heater) / TBH (DHW electric heater) installed

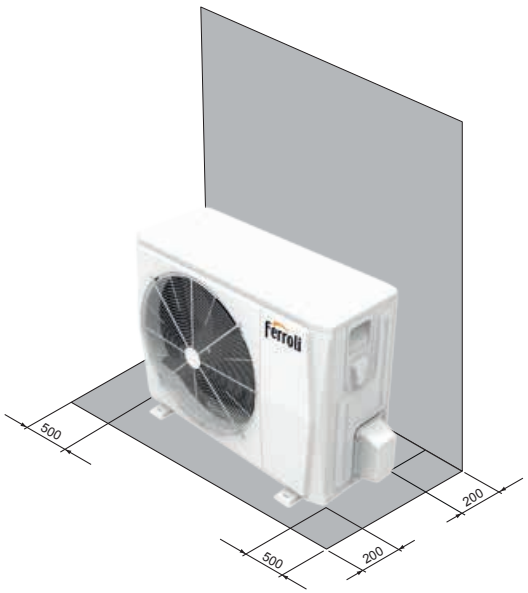
With TBH (DHW electric heater) installed

MINIMUM OPERATING SPACES (in mm)

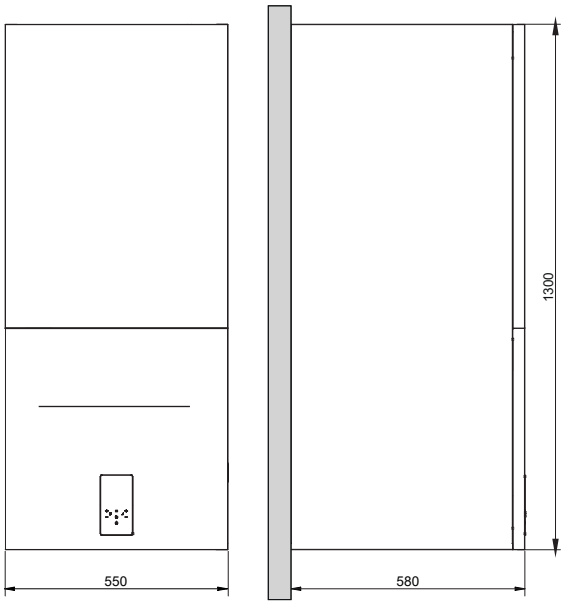
INDOOR UNIT



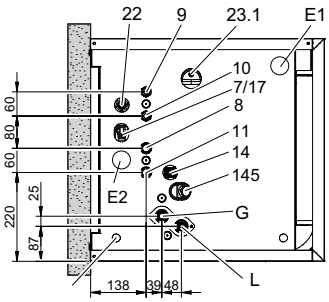
OUTDOOR UNIT



INDOOR UNIT OVERALL DIMENSIONS (in mm)



FRONT VIEW SIDE VIEW



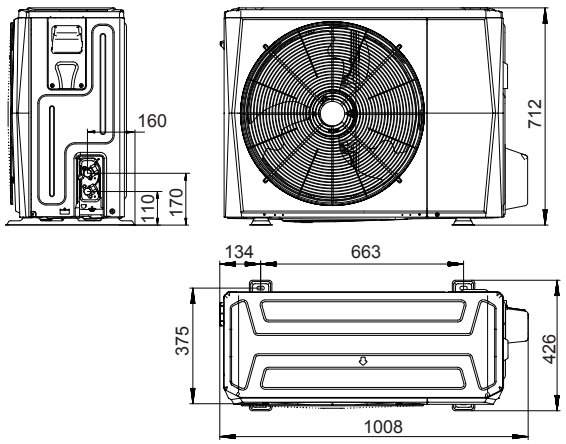
> LEGEND

7	Water filling
8	System outlet - Ø 3/4" M
9	DHW outlet - Ø 1/2" M
10	DHW inlet - Ø 1/2" M
11	System inlet - Ø 3/4" M
14	System safety valve with water drain faucet function
17	Check valve
22	DHW safety valve
23.1	Access to the system expansion vessel filling valve
145	Water pressure switch
E1	Cable gland for signal cables
E2	Cable gland for power cables
E3	Power cable
G	Gas line - Ø 15.88 (5/8")
L*	Liquid line - Ø 9.52 (3/8")

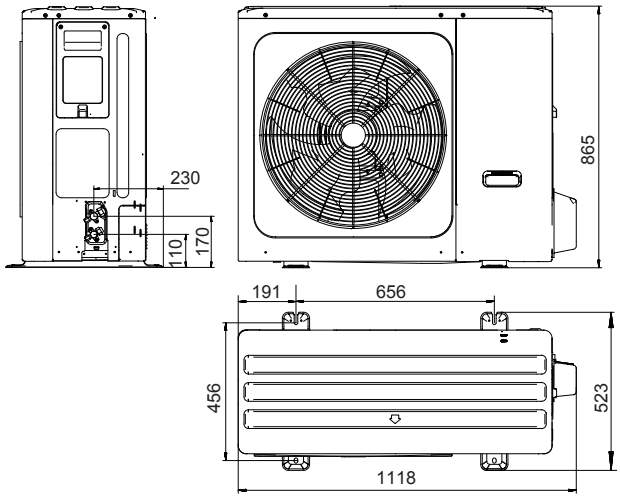
* For combination with outdoor units models 4-6, a reduction from 3/8" SAE to 1/4" SAE is supplied for Ø 6.35 liquid line

OUTDOOR UNIT OVERALL DIMENSIONS (in mm)

model 4 - 6



model 8 - 10



MODELS		4	6	8	10
Packing (WxHxD)	mm	1065x800x485		1190x970x560	
Packing weight	kg	65		94	

TERMINAL UNITS: FAN COILS & RADIATORS

JOLLY STYLE

ULTRA-SLIM
FAN COIL



> GENERAL CHARACTERISTICS

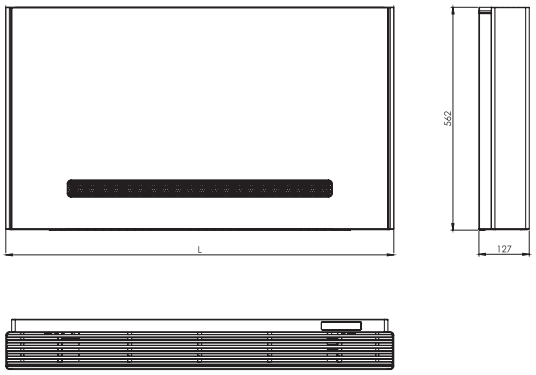
- Ultra-thin tangential fan coil with a depth of only 127 mm. Characterized by a linear and elegant design, it blends perfectly with design structures
- JOLLY STYLE has been designed to be paired with a boiler, heat pump, or chiller, allowing it to be used both in the winter and summer seasons
- The range consists of two versions. One cabinet **(VM series)** and the other recessed for vertical installations **(VN Series)**, both available in four models with cooling capacity from 0.9 kW to 3.4 kW
- Designed to operate in series up to 30 units electronically connected using the Master/Slave system
- Can be combined with supervision systems (BMS) and/or home automation via Modbus protocol, supporting up to 60 units

> CONSTRUCTION FEATURES

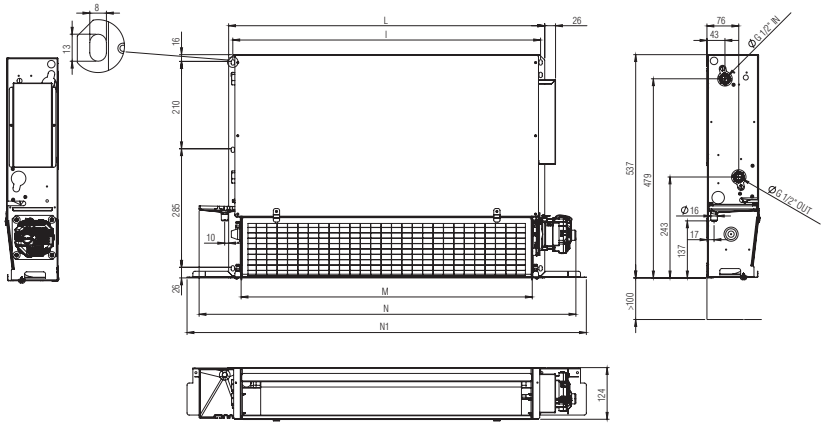
- Supplied as standard with:
  - > Condensate collecting tray
  - > White external structure in metal
  - > Control unit touch screen and lcd display
  - > Tangential fan
  - > EC motor with low consumption
  - > Air distribution fins adjustable in two positions
  - > Hydraulic connections on the left



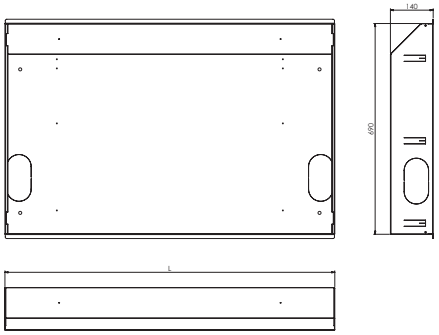
VM version



VN version



Installation formwork for vertical installations

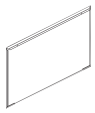
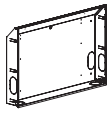


JOLLY STYLE			10	20	30	40
Width	L (VM Version)	mm	580	780	980	1180
	L (VN Version)	mm	360	560	760	960
	M	mm	300	500	700	900
	N	mm	460	660	860	1060
	N1	mm	560	760	960	1160
	N2	mm	510	710	910	1110

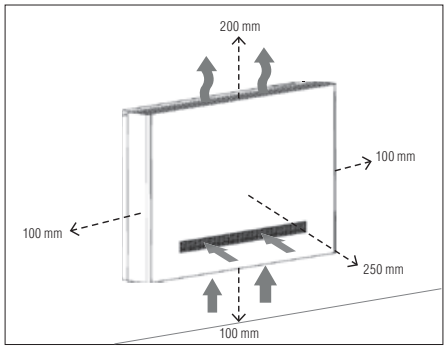
JOLLY STYLE			INDICATIVE STEPS	10	20	30	40
Power supply		V/Ph/Hz		220-240/1/50			
WATER (IN-OUT) 7°C - 12°C - ROOM AIR T 27°C D.B. 19°C W.B.							
Cooling	Total cooling capacity	W	10.0	915	2000	2789	3384
		W	7.5	829	1785	2471	2996
		W	5.0	696	1490	2042	2526
		W	3.5	592	1274	1731	2205
		W	2.0	471	1030	1380	1855
		W	1.0	381	851	1124	1605
	Water flow	l/h	10.0	157	344	480	582
		l/h	7.5	143	307	425	516
		l/h	5.0	120	256	351	434
		l/h	3.5	102	219	298	379
		l/h	2.0	81	177	237	319
		l/h	1.0	66	146	193	276
	Water pressure drop	kPa	10.0	2.5	11.5	26.2	40.6
		kPa	7.5	2.0	9.1	20.5	31.8
		kPa	5.0	1.4	6.2	13.8	22.4
		kPa	3.5	0.9	4.5	9.8	16.9
		kPa	2.0	0.5	2.8	6.1	11.9
		kPa	1.0	0.2	1.8	3.9	8.8
WATER (IN-OUT) 45°C - 40°C - ROOM AIR 20°C							
Heating	Heating capacity	W	10.0	1162	2368	3217	3828
		W	7.5	1032	2115	2954	3333
		W	5.0	872	1774	2343	2782
		W	3.5	749	1530	1951	2424
		W	2.0	600	1258	1631	2046
		W	1.0	482	1063	1494	1783
	Water flow	l/h	10.0	200	407	553	658
		l/h	7.5	178	364	508	573
		l/h	5.0	150	305	403	479
		l/h	3.5	129	263	336	417
		l/h	2.0	103	216	281	352
		l/h	1.0	83	183	257	306
	Water pressure drop	kPa	10.0	3.5	13.1	28.2	42.2
		kPa	7.5	2.7	10.3	23.7	31.8
		kPa	5.0	1.9	7.2	14.7	22.0
		kPa	3.5	1.4	5.3	10.1	16.6
		kPa	2.0	0.9	3.6	6.9	11.7
		kPa	1.0	0.6	2.4	5.8	8.8
GENERAL DATA							
Air flow		m^3/h	10.0	217	395	523	610
		m^3/h	7.5	183	345	463	513
		m^3/h	5.0	146	276	353	411
		m^3/h	3.5	122	231	286	349
		m^3/h	2.0	90	181	227	279
		m^3/h	1.0	66	137	187	220
Sound power level (1)		dB(A)	10.0	49	52	53	51
		dB(A)	7.5	46	48	48	46
		dB(A)	5.0	40	42	42	40
		dB(A)	3.5	36	38	39	37
		dB(A)	2.0	31	35	35	33
		dB(A)	1.0	28	32	32	31
Sound pressure level (2)		dB(A)	10.0	40	43	44	42
		dB(A)	7.5	37	39	39	37
		dB(A)	5.0	31	33	33	31
		dB(A)	3.5	27	29	30	28
		dB(A)	2.0	22	26	26	25
		dB(A)	1.0	19	23	23	22
Water content		l	-	0.7	1	1.4	1.7
Max motor absorption		A	-	0.14	0.18	0.20	0.23
Maximum water operating pressure		bar	-	8.0			
Hydraulic connections		inch	-	G 1/2			
Condensate drain		mm (Ø)	-	16.0			
Net / Gross weight		Kg	-	12 / 13	15 / 16	18 / 20	21 / 23
CODE		**VM version**		**2CP003AF**	**2CP003BF**	**2CP003CF**	**2CP003DF**
		VN version		**2CP003MF**	**2CP003NF**	**2CP003PF**	**2CP003QF**

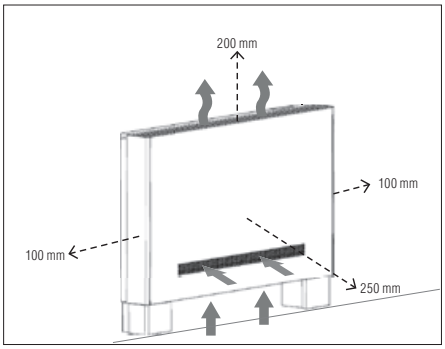
NOTE: (1): The test for detecting the sound power level was conducted in accordance with the EN 16583:2015 standard. **(2):** Considered 8.6 dB(A) lower compared to the sound power in a 90 m^3 room with a reverberation time of 0.5 seconds.

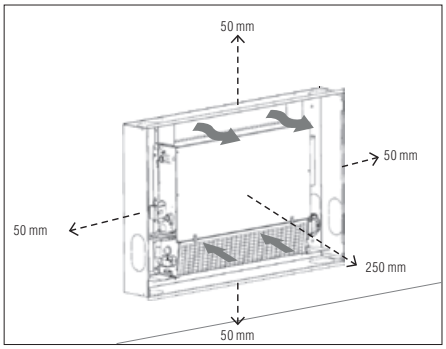
ACCESSORIES

ACCESSORIES		VM (cabinet version)				VN (vertical recessed version)				
MODEL	DESCRIPTION	10	20	30	40	10	20	30	40	CODE
	Built-in control kit (mandatory for the single installation or to manage a Master/Slave system)					•	•	•	•	2CP002Y0
	3-way valve kit - 230 VAC - ON/OFF	•	•	•	•	•	•	•	•	2CP002A0
	Aesthetic support feet kit (with back closing bracket)	•	•	•	•					2CP002C0
	Back closure panel in white painted steel	•								2CP002D0
			•							2CP002F0
				•						2CP002G0
					•					2CP002H0
	Metal formwork for the installation of recessed units					•				2CP002K0
							•			2CP002L0
								•		2CP002M0
									•	2CP002N0
	Closing panel recessed formwork, painted white					•				2CP002R0
							•			2CP002S0
								•		2CP002T0
									•	2CP002U0

CHOICE OF LOCATION AND MINIMUM DISTANCES FOR INSTALLATION







BUILT-IN CONTROL KIT

The kit consists of a touch screen display board designed to be installed on the cover panel of the built-in unit.
It must be installed to manage the parameters and the set point temperature in the case of single installations or for systems in Master/Slave configuration.

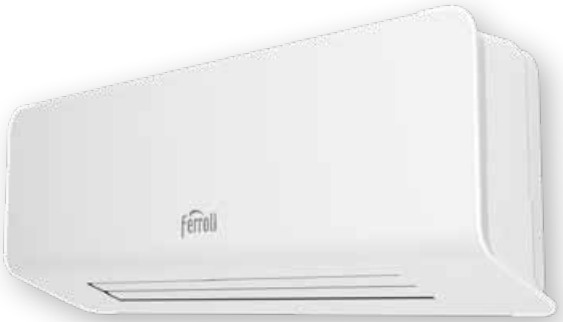
Management of a single built-in unit
The kit is mandatory for the operation, management and adjustment of the single fan coil.
The control is touch screen type and does not require any additional wall control
(JOLLY STYLE cannot be connected to an external wall thermostat)

MASTER/SLAVE system management
Each built-in fan coil is supplied as standard with its own electronic board and via BUILT-IN CONTROL KIT it can manage a Master/Slave serial network of up to a maximum of 30 connected units.
Each master/slave network must be composed of a unit (master) complete with control kit plus *n* fan coils (slaves) without any regulator.



JOLLY FLY

WALL-MOUNTED FAN COIL





> GENERAL CHARACTERISTICS

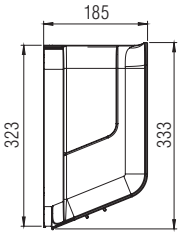
- Wall mounted fan-coil, with an elegant and contemporary aesthetic for installations in contexts with a refined design
- The fan coils JOLLY FLY in combination with a boiler, a heat pump or a chiller, can satisfy comfort requirements in all seasons
- The range consists of 3 models with cooling capacity from 0.38 kW to 3.38 kW
- Designed to operate in series up to 30 units electronically connected using the Master/Slave system
- Can be combined with supervision systems (BMS) and/or home automation via Modbus protocol, supporting up to 60 units

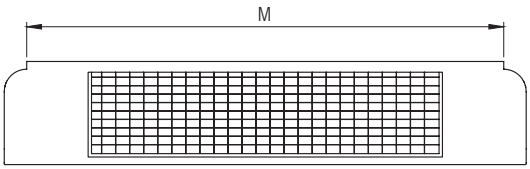
> CONSTRUCTION FEATURES

- Supplied as standard with:
  > Infrared remote control for temperature adjustment and unit settings
  > 3-way on/off valve 230V
  > Master/Slave electronic management and connection card
- Front panel in white painted metal
- Tangential fan and aluminum air output blades
- EC motor with low consumption
- Condensate collecting tray
- Hydraulic connections on the left

> DIMENSIONS

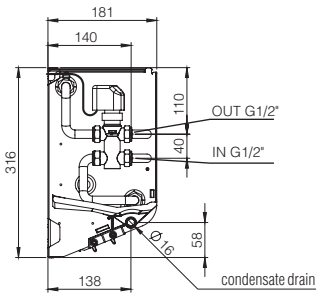






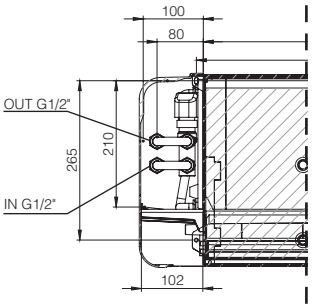
JOLLY FLY		15	30	45
Max width (L)	mm	930	930	1235
Wall support width (M)	mm	850	850	1155

> CONNECTIONS VIEWS



connections lateral view

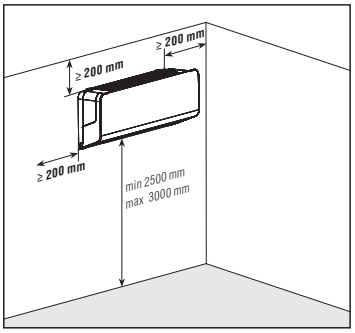
connections front view



> ACCESSORIES

	DESCRIPTION	CODE
	Relay kit for the priority of the heat pump or boiler	2CP00360
	External pre-installation box for hydraulic connections with systems not equipped with external pipes	2CP00370
	Pre-installation built-in box. Only for connection on the left side	2CP00390

> MINIMUM DISTANCES FOR INSTALLATION



JOLLY FLY			INDICATIVE STEPS	15	30	45
Power supply		V/Ph/Hz			220-240/1/50	
WATER (IN-OUT) 7°C - 12°C - ROOM AIR 27°C D.B. 19°C W.B.						
Cooling	Total cooling capacity	W	6	1621	2520	3800
		W	5	1481	2350	3410
		W	4	1340	2270	3250
		W	3	1160	2080	2920
		W	2	965	1940	2640
		W	1	852	1510	1940
	Water flow	l/h	6	279	433	654
		l/h	5	255	404	587
		l/h	4	230	390	559
		l/h	3	199	358	502
		l/h	2	166	334	454
		l/h	1	146	260	334
	Water pressure drop	kPa	6	5.5	25.5	55.1
		kPa	5	4.4	23.7	45.5
		kPa	4	3.4	22.6	43.4
		kPa	3	2.6	19.4	35.1
		kPa	2	1.8	17.4	29.3
		kPa	1	1.4	11.5	16.9
WATER (IN-OUT) 45°C - 40°C - ROOM AIR 20°C						
Heating	Heating capacity	W	6	1814	2820	4290
		W	5	1652	2600	3790
		W	4	1480	2490	3570
		W	3	1239	2290	3140
		W	2	987	2120	2810
		W	1	853	1610	2080
	Water flow	l/h	6	314	485	738
		l/h	5	286	447	652
		l/h	4	255	428	614
		l/h	3	214	394	540
		l/h	2	171	365	483
		l/h	1	147	277	358
	Water pressure drop	kPa	6	8.2	27.1	56.8
		kPa	5	6.9	23.4	47.1
		kPa	4	5.7	20.0	41.8
		kPa	3	4.0	18.3	35.1
		kPa	2	2.6	16.0	27.9
		kPa	1	1.9	9.5	15.7
GENERAL DATA						
Air flow		m^3/h	6	325	554	778
		m^3/h	5	289	486	659
		m^3/h	4	252	462	598
		m^3/h	3	205	406	502
		m^3/h	2	158	367	448
		m^3/h	1	133	262	302
Sound power level (1)		dB(A)	6	40	54	55
		dB(A)	5	37	52	52
		dB(A)	4	34	51	50
		dB(A)	3	30	49	47
		dB(A)	2	27	47	45
		dB(A)	1	25	40	37
Sound pressure level (2)		dB(A)	6	31	45	46
		dB(A)	5	28	43	43
		dB(A)	4	26	42	41
		dB(A)	3	22	40	38
		dB(A)	2	18	38	36
		dB(A)	1	17	31	29
Water content		lt	-	0.8	1.1	1.6
Max motor absorption		A	-	0.07	0.14	0.16
Maximum water operating pressure		bar	-		8	
Hydraulic connections		inch	-		G 1/2	
Condensate drain		mm (Ø)	-		16	
Net / Gross weight		Kg	-	11.5 / 13	12 / 14	14.5 / 17
CODE				**2CP0033F**	**2CP0034F**	**2CP0035F**

NOTE: (1): The test for detecting the sound power level was conducted in accordance with the EN 16583:2015 standard. **(2):** Considered 8.6 dB(A) lower compared to the sound power in a 90 m^3 room with a reverberation time of 0.5 seconds.

JOLLY UP

WALL-MOUNTED
FAN COIL





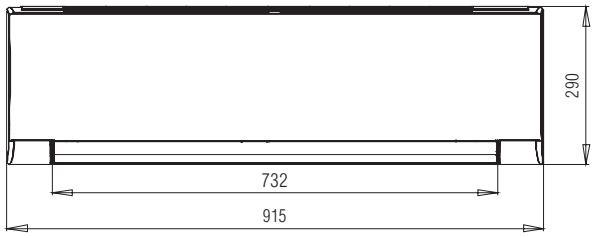
> GENERAL CHARACTERISTICS

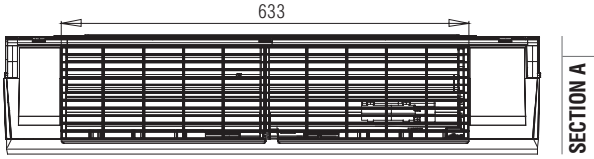
- Terminal units designed for wall-mounted installation
- Designed to be combined with a boiler, a heat pump or a chiller, they can be used both in winter and summer
- The range consists of 3 models with cooling power from 2.4 kW to 3.8 kW and three fan speeds
- JOLLY UP fan coils are designed to operate serial network up to 64 machines with the help of a concentrator available as an accessory

> CONSTRUCTION FEATURES

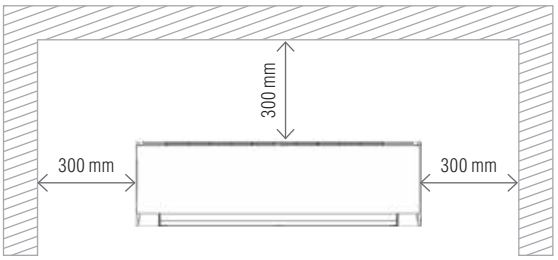
- Supplied as standard with:
  > Infrared remote control for temperature adjustment and unit settings
  > 3-way on/off valve 230V
- Electronic board with relay outputs for heating or cooling request
- White ABS external structure with display and interface led on the front panel
- Tangential fan
- EC motor with low consumption
- Condensate collecting tray
- Hydraulic connections can be made both to the right and to the left of the unit via two hoses
- Can be combined with supervision systems (BMS) and/or home automation via Modbus protocol

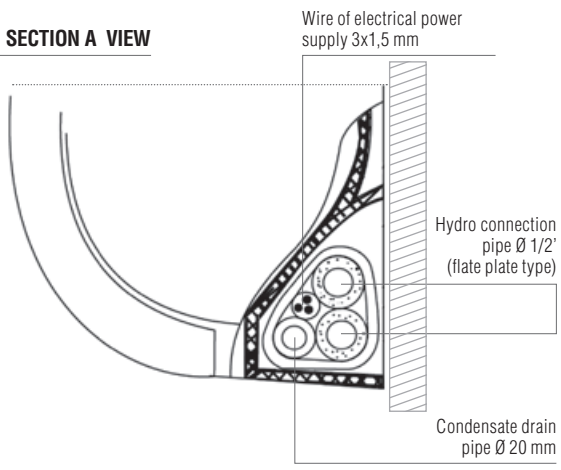
> DIMENSIONS





> MINIMUM DISTANCES FOR INSTALLATION





JOLLY UP				30	35	45
Power supply			V/Ph/Hz	220-240/1/50		
WATER (IN-OUT) 7°C - 12°C - ROOM AIR 27°C D.B. 19°C W.B.						
Cooling	Capacity	Max	kW	2.70	2.91	3.81
		Mid	kW	2.59	2.54	3.30
		Low	kW	2.39	2.19	2.88
	Water flow rate	Max	m³/h	0.48	0.51	0.67
		Mid	m³/h	0.46	0.45	0.57
		Low	m³/h	0.42	0.38	0.51
	Water pressure drop	Max	kPa	31.6	37.2	56.8
		Mid	kPa	28.63	29.73	41.23
		Low	kPa	25.36	23.36	33.02
	Electric power input	Max	W	13	15	33
		Mid	W	11	11	22
		Low	W	10	9	15
WATER (IN-OUT) 45°C - 40°C - ROOM AIR 20°C						
Heating	Capacity	Max	kW	2.94	3.23	4.30
		Mid	kW	2.02	2.77	3.65
		Low	kW	1.86	2.42	3.09
	Water flow rate	Max	m³/h	0.51	0.56	0.73
		Mid	m³/h	0.49	0.49	0.64
		Low	m³/h	0.46	0.42	0.56
	Water pressure drop	Max	kPa	37.5	40.6	61.9
		Mid	kPa	34.9	31.5	47.5
		Low	kPa	30.2	25.1	35.7
	Electric power input	Max	W	11	14	31
		Mid	W	11	10	20
		Low	W	9	8	14
GENERAL DATA						
Air flow		Max	m³/h	492	585	825
		Mid	m³/h	454	485	689
		Low	m³/h	400	413	590
Sound pressure level (measured at 1 meter distance in reverberation chamber)		Max	dB(A)	32	32	45
		Mid	dB(A)	30	27	39
		Low	dB(A)	27	23	35
Sound power level		Max	dB(A)	44	57	50
		Mid	dB(A)	42	51	46
		Low	dB(A)	39	47	42
Motor's electrical compsuntion		Max	A	0.16	0.19	0.28
Max work pressure			bar	16	16	16
Hydraulic connectlons			inch	G1/2	G1/2	G1/2
Condensate drain		Ø	mm	20	20	20
Water content			lt	0.669	0.669	0.669
Net / Gross weight			Kg	11.5 / 14.5	11.5 / 14.5	11.5 / 14.5
CODE				**2CP0030F**	**2CP0031F**	**2CP0032F**

> ACCESSORIES

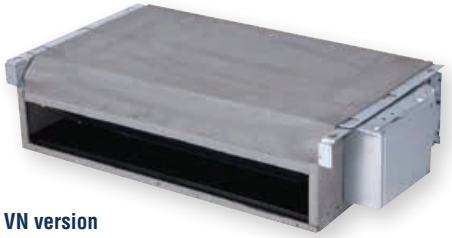
GCM09		**Wall-hung centralized control** It allows to connect up to 64 fan coils in a serial network and therefore allows, in unit or singularly for all connected fan coils, to: 1. Turn the units ON/OFF 2. Choose the hot-cold mode of operation 3. Display the room temperature and set the setpoint 4. Select the fan speed 5. Weekly schedule	**2CO9A3Q0**

JOLLY TOP I

FAN COIL
WITH CENTRIFUGAL FAN



VM version



VN version

> GENERAL CHARACTERISTICS:

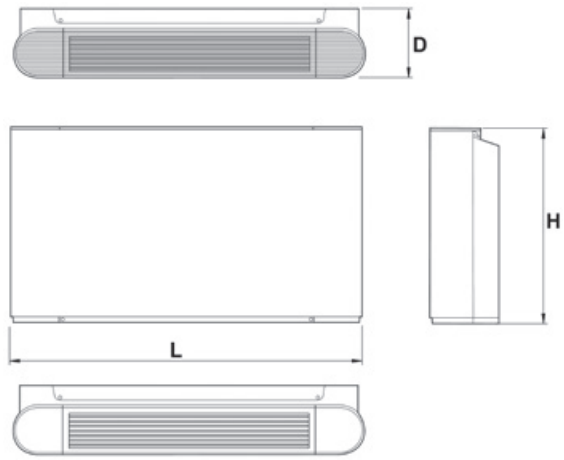
New series of fan coil units with centrifugal fan with high efficiency DC brushless motor. Characterised by a maximum depth of 200 mm in the cased models and a particularly attractive aesthetic line, they are intended for residential heating and air conditioning applications.
Available in 5 sizes with cooling capacities from 1.50 to 5.60 kW and air flow rates from 255 to 1190 m^3/h. In the standard version they are proposed with a single 3-row coil to which can be combined as an accessory, in the case of 4-pipe systems, an additional 1-row coil.
Available in the two versions, VM with casing and VN without shell for recessed applications. The units can be installed in both vertical and horizontal positions.

The range of centrifugal fan coil units includes two versions; each of them is available in different capacities.
VM - Fan coil unit with suction casing from below
Composed of a sheet metal casing, a supply grille with doors to access the control, if required, in thermoplastic material and a regenerable e air filter, placed on a metal frame housed on guides cut out in the lower part of the frame.
VN - Fan coil unit without casing for recessed applications
Without cover casing with regenerable air filter, placed on a metal frame housed on guides cut out in the lower part of the frame.

> UNIT SPECIFICATIONS

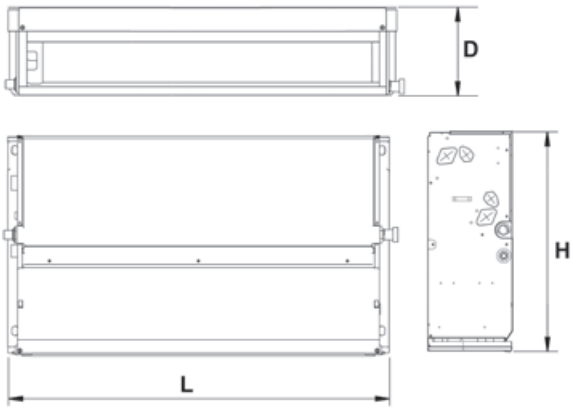
BEARING STRUCTURE It is made of galvanized sheet metal of adequate thickness.
There are slots at the rear to fix the unit. For models without a cover casing, there is a front mounted fan unit closing panel.
HEAT EXCHANGE COIL 3-row copper tube coil with aluminium fins blocked by mechanical expansion of the tubes. The manifolds in the upper part of the coil are equipped with air vents, while the lower part has a water drain tap*. *
The default hydraulic connection for the coil is on the LEFT. HoweverIT IS POSSIBLE TO turn the coil and modify it to the RIGHT (see Installation Manual).
CONDENSATE DRIP TRAY Made of thermoplastic material to avoid corrosion it allows the machine to be installed in either vertical or horizontal positions. In particular, in the horizontal installation, its shape makes it possible to collect the drops of condensate that form on the collectors during cold operation. The drain hole is made directly from the condensate drip tray and allows it to be removed during cold operation. It is present on both sides of the machine to facilitate the rotation of the coil.
FAN MOTOR The electric motor is a DC brushless type with continuous speed regulation at high efficiency and is directly coupled to the fans and cushioned by elastic supports.
CENTRIFUGAL FAN The fan unit consists of double inlet centrifugal fans with blades developed in length to obtain high flow rate at low speed.
AIR FILTER Easily removable and regenerable by simply washing with water.
COVER CASING (VM only) Made of steel sheet part painted with epoxy powder to ensure high resistance to corrosion and part in anti-UV thermoplastic material to ensure resistance to ultraviolet rays. The air diffusion grilles and the door to access the control panel, both made of anti-UV thermoplastic material are inserted in the upper part.
HYDRAULIC CONNECTIONS The connections, located on the left side, are of ¾" gas female type. It is possible to rotate the coil, which is supplied as standard with left side connections, by moving the hydraulic connections to the right side.

VM VERSION



Mod.	150	250	350	500	700
L (mm)	790	1020	1240		1360
H (mm)	495				
D (mm)	200				

VN VERSION

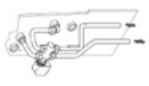


Mod.	150	250	350	500	700
L (mm)	637	867	1087		1207
H (mm)	455				
D (mm)	200				

MODEL			150	250	350	500	700
Power supply		V-ph-Hz			230-1-50		
WATER: IN 7° - OUT 12°C - ROOM AIR: 27°C D.B 19°C W.B.							
Total cooling capacity	max	kW	1.50	2.35	3.50	4.30	5.60
	med	kW	1.06	1.94	2.89	3.48	4.47
	min	kW	0.92	1.19	2.22	2.71	3.14
Sensible cooling capacity	max	kW	1.14	1.79	2.65	3.25	4.62
	med	kW	0.77	1.44	2.14	2.56	3.6
	min	kW	0.66	0.86	1.57	1.91	2.43
Water flow rate	max	l/h	258	404	602	740	963
	med	l/h	182	334	497	599	769
	min	l/h	158	205	382	466	540
Water side pressure drops	max	kPa	14	13	34	54	51
	med	kPa	8	10	25	36	33
	min	kPa	6	5	15	23	18
WATER: IN 45/70°C - OUT 40/60°C - ROOM AIR: 20°C							
Heat output	max	kW	1.57 / 3.18	2.60 / 5.26	3.80 / 7.68	4.70 / 9.47	6.00 / 12.18
	med	kW	1.07 / 2.18	2.11 / 4.28	3.10 / 6.3	3.70 / 7.48	4.77 / 9.69
	min	kW	0.92 / 189	1.34 / 2.71	2.35 / 4.74	2.81 / 4.74	3.36 / 6.81
Water flow rate	max	l/h	270 / 270	447 / 450	654 / 660	808 / 820	1032 / 1050
	med	l/h	184 / 190	363 / 370	533 / 540	636 / 650	820 / 830
	min	l/h	158 / 160	230 / 230	404 / 410	483 / 500	578 / 590
Water side pressure drops	max	kPa	15 / 8.62	14 / 10.28	35 / 26.48	54 / 38.23	55 / 30.5
	med	kPa	8 / 4.5	10 / 7.18	24 / 18.64	37 / 25.3	38 / 20.35
	min	kPa	6 / 3.51	5 / 3.26	15 / 11.34	22 / 15.9	19 / 10.98
WATER: IN 70° - OUT 60°C - AMBIENT AIR: 20°C							
Auxiliary coil heat output	max	kW	1.82	2.46	3.78	4.4	5.87
	med	kW	1.61	1.91	3.3	3.75	5.22
	min	kW	1.27	1.32	2.63	3.15	4.19
Auxiliary coil water flow rate	max	l/h	120	200	250	290	390
	med	l/h	110	150	210	250	340
	min	l/h	80	100	170	200	260
Water side pressure drops auxiliary coil	max	kPa	12.54	29.06	61.88	80.05	145.93
	med	kPa	10.25	19.07	49.07	61.91	118.24
	min	kPa	6.89	10.13	32.61	44.87	79.31
GENERAL DATA							
Air flow rate	max	m³/h	255	400	595	790	1190
	med	m³/h	170	315	470	580	855
	min	m³/h	150	190	340	410	505
Air flow with main coil only for static pressure available 0/12/30 Pa	max	m³/h	333 / 280 / 146	489 / 392 / 32	683 / 570 / 261	893 / 812 / 656	1350 / 1258 / 1091
	med	m³/h	276 / 210 / 43	345 / 128 / 24	538 / 367 / 31	666 / 552 / 237	1029 / 899 / 630
	min	m³/h	192 / 77 / 24	232 / 19 / 19	397 / 197 / 25	475 / 258 / 28	677 / 451 / 31
Air flow rates with main and auxiliary coils for static pressure available 0/12/30 Pa	max	m³/h	318 / 264 / 131	465 / 373 / 47	641 / 527 / 258	845 / 764 / 606	1198 / 1112 / 949
	med	m³/h	265 / 198 / 31	327 / 164 / 25	508 / 339 / 31	631 / 516 / 229	897 / 774 / 554
	min	m³/h	186 / 76 / 24	222 / 20 / 20	357 / 95 / 24	452 / 251 / 228	574 / 386 / 32
Absorbed power	max / med / min	W	15 / 9 / 8	17 / 12 / 7	26 / 17 / 10	50 / 25 / 14	96 / 44 / 17
Maximum current consumption	max	A	0.18	0.20	0.26	0.49	0.85
Sound power	max / med / min	dB(A)	47 / 36 / 34	43 / 37 / 29	52 / 44 / 36	59 / 51 / 43	64 / 56 / 45
Sound pressure (measured at 1 m distance in reverberation chamber)	max / med / min	dB(A)	34 / 24 / 21	29 / 24 / 18	38 / 32 / 23	46 / 38 / 30	50 / 42 / 31
Motor		type			DC brushless		
No. of fans (centrifugal)		No°	1	2	2	2	3
Maximum operating pressure		bar			16		
Main 3R coil water content		l	0.46	0.68	0.90	0.90	1.02
Auxiliary 1R coil water content		l	0.15	0.23	0.30	0.30	0.34
Main 3R coil connections	F	"	3/4" G	3/4" G	3/4" G	3/4" G	3/4" G
Auxiliary 1R coil connections	F	"	1/2" G	1/2" G	1/2" G	1/2" G	1/2" G
Condensate discharge connections		mm			18.5		
Gross/net weight VM version		kg	23.5 / 18	27.5 / 21.5	32.5 / 25.5	32.5 / 25.5	36 / 28.5
Gross/net weight VN version		kg	19.5 / 14	22.5 / 16.5	26.5 / 19.5	26.5 / 19.5	29.5 / 22
CODE	**VM**		**2CO9A3AF**	**2CO9A3BF**	**2CO9A3CF**	**2CO9A3DF**	**2CO9A3EF**
CODE	**VN**		**2CO9A3F0**	**2CO9A3G0**	**2CO9A3H0**	**2CO9A3I0**	**2CO9A3J0**

TABLE OF ACCESSORIES

CONTROL ACCESSORIES								
MODEL		**DESCRIPTION**	**150**	**250**	**350**	**500**	**700**	**CODE**
TE / TER		**Thermostat with display for on board unit or remote wall-hung installation. Allows to:** 1. Turn the unit on or off 2. Choose Hot-Cool-Airing-Dehumidification mode of operation 3. Display the room temperature and set the setpoint 4. Select the fan speed	•	•	•	•	•	**2CO9A3K0**
502-503		**Wall adapter for boxes** Adapter kit for wall installation of the TE/TER thermostat in case you want to use it on a recessed box mod. 503 (fixing centre distance 83.5 mm)	•	•	•	•	•	**2CO9A3W0**
GC01		**Central unit module** - Allows to connect in serial network up to 16 fan coils that will be controlled as a single unit with a single TE/TER thermostat.	•	•	•	•	•	**2CO9A3N0**
GCM09		**Wall-hung centralized control** It allows to connect up to 64 fan coils in a serial network and therefore allows, in unit or singularly for all connected fan coils, to: 1. Turn the units on or off 2. Choose the Hot-Cold mode of operation 3. Display the room temperature and set the setpoint 4. Select the fan speed 5. Weekly schedule	•	•	•	•	•	**2CO9A3Q0**

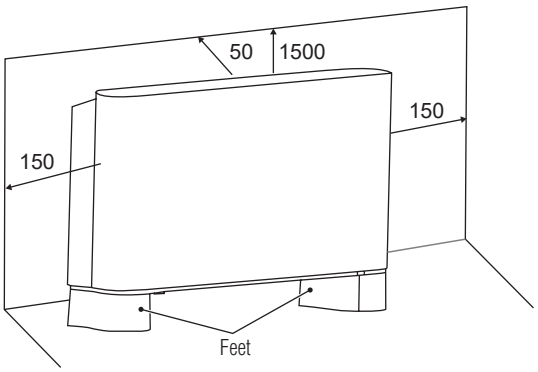
COMMON ACCESSORIES FOR INSTALLATION AND HYDRAULIC CONNECTIONS								
MODEL		**DESCRIPTION**	**150**	**250**	**350**	**500**	**700**	**CODE**
FCPW		**Support feet** in case the unit rests on the floor	•	•	•	•	•	**2CO9A3R0**
BATT 1R FC150		**Auxiliary 1-row coil**	•					**2CO9A3S0**
BATT 1R FC250				•				**2CO9A3T0**
BATT 1R FC350-500					•	•		**2CO9A3U0**
BATT 1R FC700							•	**2CO9A3V0**
FC BATT 3R		**3-way valve kit 3-way main coil (LEFT CONNECTIONS)** [PHASE OUT]	•	•	•	•	•	**2CO9A3Y0**
		3-way valve kit 3-way main coil (RIGHT & LEFT CONNECTIONS) [NEW]	•	•	•	•	•	**2CP004A0**
FC BATT 1R		**3-way valve kit auxiliary 1-row coil LEFT CONNECTIONS)** [PHASE OUT]	•	•	•	•	•	**2CO9A3Z0**
		3-way valve kit auxiliary 1-row coil (RIGHT & LEFT CONNECTIONS) [NEW]	•	•	•	•	•	**2CP004B0**
FC		**Condensate drip tray** for the installation of the 3-way valve auxiliary kit	•	•	•	•	•	**2CO9B050**

> INSTALLATION EXAMPLES

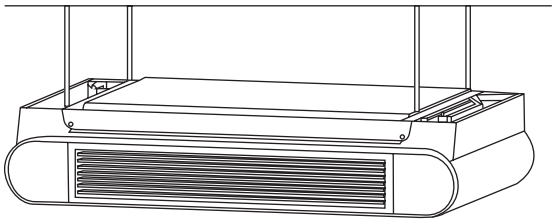
These new units are characterized by an elegant aesthetic design and multiple insertion possibilities in different types of installations.

The cased models can be wall-hung or recessed (raised or supported by feet), or suspended horizontally from the ceiling.

WALL-HUNG OR RECESSED INSTALLATION

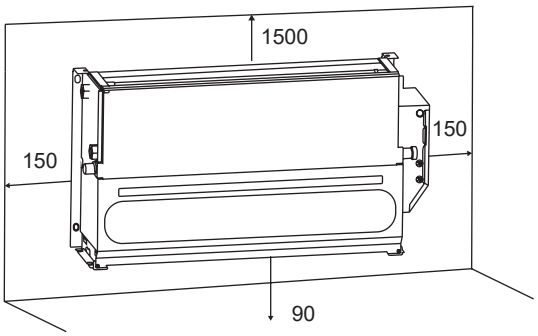


SUSPENDED HORIZONTALLY FROM THE CEILING INSTALLATION

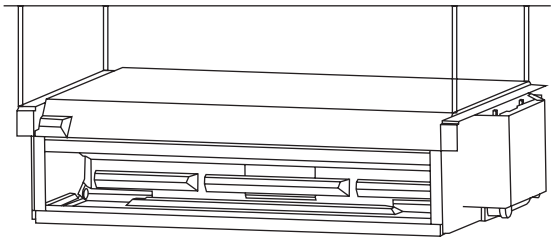


The models without casing are particularly suitable for vanishing solutions in recessed or in false ceilings.

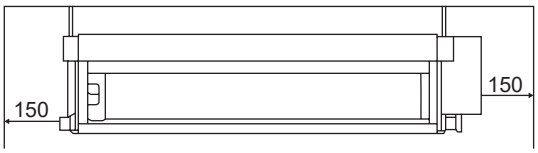
RECESSED INSTALLATION



SUSPENDED HORIZONTALLY FROM THE CEILING INSTALLATION



CEILING-HUNG HORIZONTAL INSTALLATION

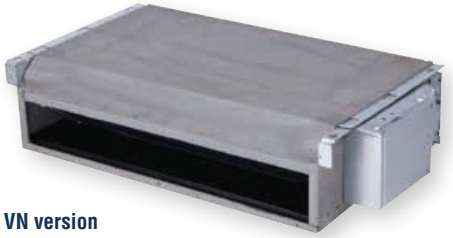


JOLLY TOP 3V

FAN COIL
WITH CENTRIFUGAL FAN



VM version



VN version

> GENERAL CHARACTERISTICS:

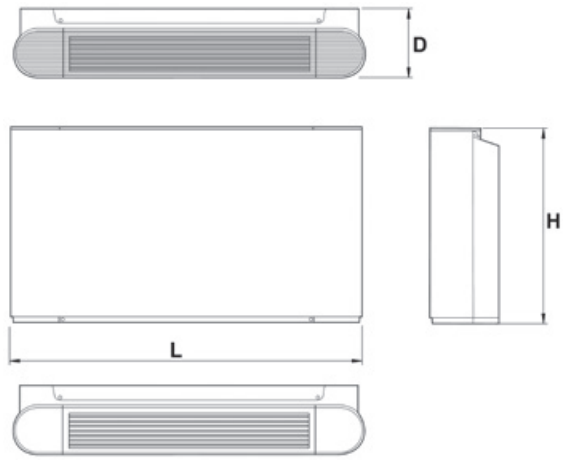
New series of fan coil units with centrifugal fan with 3-speed AC motor. Characterised by a maximum depth of 200 mm in the cased models and a particularly attractive aesthetic line, they are intended for residential heating and air conditioning applications. Available in 5 sizes with cooling capacities from 1.65 to 6.00 kW and air flow rates from 255 to 1300 m^3/h. In the standard version they are proposed with a single 3-row coil to which can be combined as an accessory, in the case of 4-pipe systems, an additional 1-row coil.
Available in the two versions, VM with casing and VN without shell for recessed applications. The units can be installed in both vertical and horizontal positions.

The range of centrifugal fan coil units includes two versions; each of them is available in different capacities.
VM - Fan coil unit with suction casing from below
Composed of a sheet metal casing, a supply grille with doors to access the control, if required, in thermoplastic material and a regenerable e air filter, placed on a metal frame housed on guides cut out in the lower part of the frame.
VN - Fan coil unit without casing for recessed applications
Without cover casing with regenerable air filter, placed on a metal frame housed on guides cut out in the lower part of the frame.

> UNIT SPECIFICATIONS

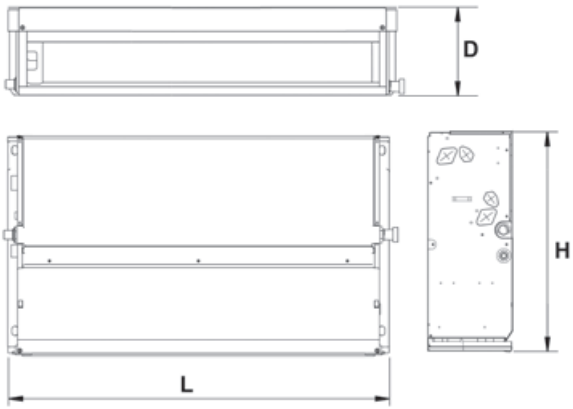
BEARING STRUCTURE It is made of galvanized sheet metal of adequate thickness.
There are slots at the rear to fix the unit. For models without a cover casing, there is a front mounted fan unit closing panel.
HEAT EXCHANGE COIL 3-row copper tube coil with aluminium fins blocked by mechanical expansion of the tubes. The manifolds in the upper part of the coil are equipped with air vents, while the lower part has a water drain tap*. * *The default hydraulic connection for the coil is on the LEFT. HoweverIT IS POSSIBLE TO turn the coil and modify it to the RIGHT (see Installation Manual).*
CONDENSATE DRIP TRAY Made of thermoplastic material to avoid corrosion it allows the machine to be installed in either vertical or horizontal positions. In particular, in the horizontal installation, its shape makes it possible to collect the drops of condensate that form on the collectors during cold operation. The drain hole is made directly from the condensate drip tray and allows it to be removed during cold operation. It is present on both sides of the machine to facilitate the rotation of the coil.
FAN MOTOR The electric motor, protected from possible overloads, has three speeds with running capacitor always on, directly coupled to the fans and cushioned by elastic supports.
CENTRIFUGAL FAN The fan unit consists of double inlet centrifugal fans with blades developed in length to obtain high flow rate at low speed.
AIR FILTER Easily removable and regenerable by simply washing with water.
COVER CASING (VM only) Made of steel sheet part painted with epoxy powder to ensure high resistance to corrosion and part in anti-UV thermoplastic material to ensure resistance to ultraviolet rays. The air diffusion grilles and the door to access the control panel, both made of anti-UV thermoplastic material are inserted in the upper part.
HYDRAULIC CONNECTIONS The connections, located on the left side, are of ¾" gas female type. It is possible to rotate the coil, which is supplied as standard with left side connections, by moving the hydraulic connections to the right side.

VM VERSION



Mod.	150	250	350	500	700
L (mm)	790	1020	1240		1360
H (mm)	495				
D (mm)	200				

VN VERSION

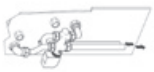
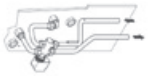


Mod.	150	250	350	500	700
L (mm)	637	867	1087		1207
H (mm)	455				
D (mm)	200				

MODEL			150	250	350	500	700
Power supply		V-ph-Hz			230-1-50		
WATER: IN 7° - OUT 12°C - ROOM AIR: 27°C D.B 19°C W.B.							
Total cooling capacity	max	kW	1.65	2.65	3.85	4.65	6
	med	kW	1.22	2.02	3.19	3.8	5.03
	min	kW	1.09	1.4	2.46	2.92	3.71
Sensible cooling capacity	max	kW	1.25	2.05	2.91	3.58	4.83
	med	kW	0.88	1.5	2.36	2.85	3.99
	min	kW	0.78	1.02	1.77	2.09	2.85
Water flow rate	max	l/h	284	456	662	800	1032
	med	l/h	210	347	549	654	865
	min	l/h	187	241	423	502	638
Water side pressure drops	max	kPa	16	18	38	57	54
	med	kPa	9	11	27	40	37
	min	kPa	7	5	17	25	21
WATER: IN 45/70°C - OUT 40/60°C - ROOM AIR: 20°C							
Heat output	max	kW	1.85 / 3.71	3.05 / 6.19	4.1 / 8.25	5.2 / 10.5	6.15 / 12.41
	med	kW	1.29 / 2.61	2.24 / 4.46	3.3 / 6.62	3.95 / 7.98	5.1 / 10.31
	min	kW	1.13 / 2.29	1.52 / 3.02	2.48 / 5.05	3 / 6.01	3.8 / 7.73
Water flow rate	max	l/h	318 / 320	525 / 530	705 / 710	894 / 900	1058 / 1070
	med	l/h	222 / 230	385 / 380	568 / 570	679 / 690	877 / 890
	min	l/h	194 / 200	261 / 260	427 / 430	516 / 520	654 / 670
Water side pressure drops	max	kPa	15 / 11.29	18 / 13.65	36 / 29.97	57 / 45.68	58 / 31.51
	med	kPa	8 / 6.14	10 / 7.7	25 / 20.31	37 / 28.3	39 / 22.79
	min	kPa	7 / 4.88	5 / 3.92	15 / 12.63	23 / 17.13	21 / 13.68
WATER: IN 70° - OUT 60°C - AMBIENT AIR: 20°C							
Auxiliary coil heat output	max	kW	2.19	2.62	3.87	4.13	5.93
	med	kW	1.83	1.82	3.32	3.97	5.4
	min	kW	1.53	1.28	2.62	3.33	4.42
Auxiliary coil water flow rate	max	l/h	140	210	250	350	400
	med	l/h	120	150	210	260	350
	min	l/h	100	100	170	210	270
Water side pressure drops auxiliary coil	max	kPa	18.21	32.98	65.01	88.72	149.12
	med	kPa	13.28	17.39	49.47	69.43	126.82
	min	kPa	10.08	9.57	32.61	50.34	88.25
GENERAL DATA							
Air flow rate	max	m³/h	255	400	595	790	1190
	med	m³/h	165	273	447	560	855
	min	m³/h	142	180	319	392	555
Air flow with main coil only for static pressure available 0/12/30 Pa	max	m³/h	358 / 331 / 286	446 / 413 / 352	636 / 595 / 513	852 / 808 / 731	1265 / 1190 / 1045
	med	m³/h	269 / 243 / 201	307 / 267 / 177	472 / 421 / 337	806 / 767 / 690	909 / 884 / 820
	min	m³/h	186 / 152 / 111	203 / 136 / 58	337 / 266 / 181	621 / 582 / 500	638 / 615 / 567
Air flow rates with main and auxiliary coils for static pressure available 0/12/30 Pa	max	m³/h	377 / 352 / 309	447 / 414 / 355	635 / 593 / 494	837 / 790 / 710	1208 / 1132 / 987
	med	m³/h	287 / 264 / 215	307 / 266 / 185	477 / 423 / 327	796 / 752 / 676	911 / 881 / 781
	min	m³/h	210 / 176 / 130	203 / 139 / 60	342 / 268 / 180	612 / 573 / 478	623 / 591 / 549
Absorbed power	max / med / min	W	35 / 17 / 14	47 / 26 / 14	51 / 32 / 19	91 / 54 / 34	123 / 98 / 68
Maximum current consumption	max / med / min	A	0.15 / 0.07 / 0.06	0.20 / 0.11 / 0.06	0.22 / 0.14 / 0.08	0.40 / 0.23 / 0.15	0.53 / 0.43 / 0.30
Sound power	max / med / min	dB(A)	47 / 35 / 34	46 / 37 / 31	52 / 44 / 36	59 / 51 / 43	64 / 56 / 45
Sound pressure (measured at 1 m distance in reverberation chamber)	max / med / min	dB(A)	35 / 24 / 21	34 / 24 / 18	39 / 32 / 23	48 / 39 / 31	50 / 43 / 33
Motor		type			AC 3 velocità		
No. of fans (centrifugal)		No°	1	2	2	2	3
Maximum operating pressure		bar			16		
Main 3R coil water content		l	0.46	0.68	0.9	0.9	1.02
Auxiliary 1R coil water content		l	0.15	0.23	0.3	0.3	0.34
Main 3R coil connections	F	"	3/4" G	3/4" G	3/4" G	3/4" G	3/4" G
Auxiliary 1R coil connections	F	"	1/2" G	1/2" G	1/2" G	1/2" G	1/2" G
Condensate discharge connections		mm			18.5		
Gross/net weight VM version		kg	21.8 / 16.3	26 / 20	31 / 24	31 / 24	34.8 / 27.3
Gross/net weight VN version		kg	15.9 / 11.6	19.4 / 13.9	24 / 17.3	24.6 / 17.9	27.3 / 20.5
CODE	**VM**		**2CO9A30F**	**2CO9A31F**	**2CO9A32F**	**2CO9A33F**	**2CO9A34F**
CODE	**VN**		**2CO9A350**	**2CO9A360**	**2CO9A370**	**2CO9A380**	**2CO9A390**

TABLE OF ACCESSORIES

CONTROL ACCESSORIES								
MODEL		**DESCRIPTION**	**150**	**250**	**350**	**500**	**700**	**CODE**
REM1		**Switch for remote wall installation** Comes with: - Selector for Off / Summer / Winter - Selector for Min / Med / Max fan speed	•	•	•	•	•	**2CO9A440**
CM FC 3V		**On-board unit switches** They allow to: 1. Turn the unit on or off by selecting Hot-Cold mode 2. Select the fan speed	•	•	•	•	•	**2CO9A3M0**
TES FC 3V		**Thermostat with display for on-board installation (Includes water temperature control probe)** Allows to: 1. Turn the unit on or off 2. Choose the hot-cold operating mode 3. Display the room temperature and set the setpoint 4. Select the fan speed 5. Set a timed on or off 6. Setting an ECO feature 7. Connect the unit to the modbus network for management via BMS 8. Obtain a "chiller call" or a "boiler call" via 1A/230 Vac clean contact	•	•	•	•	•	**2CO9A430**
TERN-N		**Advanced thermostat for remote wall installation** Comes with: - Selector for Off/Summer/Winter/Auto function - Selector for Min/Med/Max/Auto fan speed - Knob to set the required temperature Note: The selected temperature refers to a value indicated on the knob and not to an offset in relation to a predetermined value. For the wall-hung version: - yellow LED: on when the thermostat is powered - green LED: on when the cooling function is on - red LED: on when the heating function is on	•	•	•	•	•	**2CO9A400**
TC		**Consent thermostat** (only for switch REM1 and CM)	•	•	•	•	•	**2CO9A420**
MP		**Wall-hung master control** By means of the remote terminal, which can be installed on the wall and connected with three wires to the power module, it is possible to set all the operating parameters of the units. The display shows the room temperature (via an air probe integrated in the terminal) and the set-point, and features icons for indicating the state (on/off), operating mode (heating/cooling/auto), fan speed (1/2/3/auto). Through the 4 keys, it is therefore possible to change the state, the operating mode, the set-point, and the fan speed. The display also shows any operating errors. The terminal is used to control a single fan coil while, through a serial connection, it acts as a master terminal and is able to manage a zone of fan coils (maximum 16).	•	•	•	•	•	**20Z04440**
3V		**Power Module** Module to be installed on each unit, it is able to activate the three fan speeds as well as any hot and cold valves. Through a micro-switch, it is able to manage different system configurations, 2 or 4 pipes or solutions with electric resistance integration. It manages heating and cooling and accepts presence status inputs of the place to be air-conditioned. It receives the settings directly from Master controller or from a serial connection with other units belonging to a single group of terminals with Master Slave setting.	•	•	•	•	•	**2CO9A410**

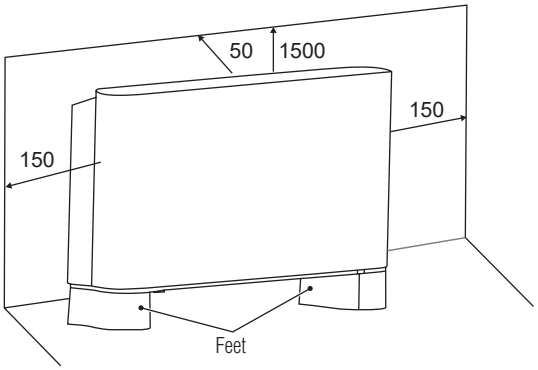
COMMON ACCESSORIES FOR INSTALLATION AND HYDRAULIC CONNECTIONS								
MODEL		DESCRIPTION	150	250	350	500	700	CODE
FCPW		**Support feet** in case the unit rests on the floor	•	•	•	•	•	2CO9A3R0
BATT 1R FC150		**Auxiliary 1-row coil**	•					2CO9A3S0
BATT 1R FC250				•				2CO9A3T0
BATT 1R FC350-500					•	•		2CO9A3U0
BATT 1R FC700							•	2CO9A3V0
FC BATT 3R		**3-way valve kit 3-way main coil (LEFT CONNECTIONS)** [PHASE OUT]	•	•	•	•	•	2CO9A3Y0
		3-way valve kit 3-way main coil (RIGHT & LEFT CONNECTIONS) [NEW]	•	•	•	•	•	2CP004A0
FC BATT 1R		**3-way valve kit auxiliary 1-row coil LEFT CONNECTIONS)** [PHASE OUT]	•	•	•	•	•	2CO9A3Z0
		3-way valve kit auxiliary 1-row coil (RIGHT & LEFT CONNECTIONS) [NEW]	•	•	•	•	•	2CP004B0
FC		**Condensate drip tray** for the installation of the 3-way valve auxiliary kit	•	•	•	•	•	2CO9B050

> INSTALLATION EXAMPLES

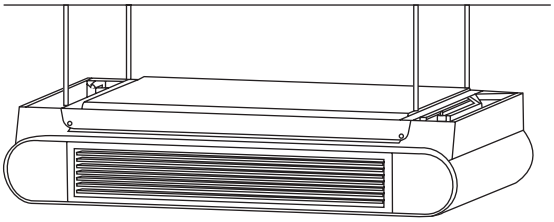
These new units are characterized by an elegant aesthetic design and multiple insertion possibilities in different types of installations.

The cased models can be wall-hung or recessed (raised or supported by feet), or suspended horizontally from the ceiling.

WALL-HUNG OR RECESSED INSTALLATION

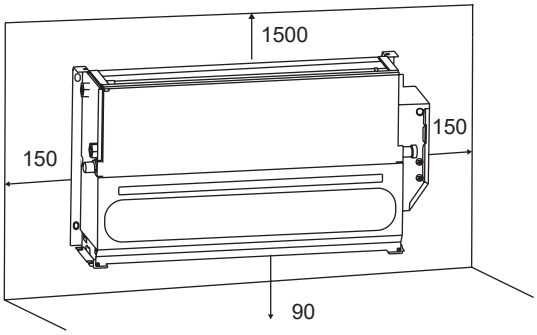


SUSPENDED HORIZONTALLY FROM THE CEILING INSTALLATION

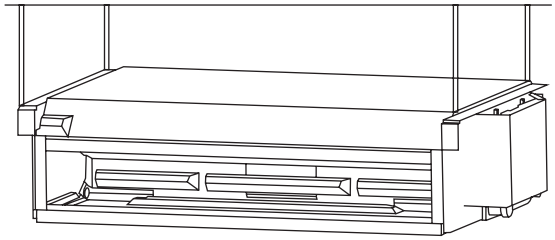


The models without casing are particularly suitable for vanishing solutions in recessed or in false ceilings.

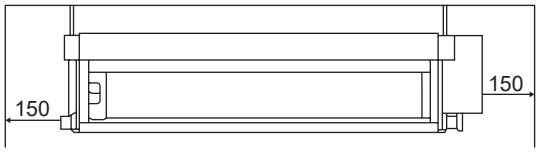
RECESSED INSTALLATION



SUSPENDED HORIZONTALLY FROM THE CEILING INSTALLATION



CEILING-HUNG HORIZONTALINSTALLATION



FCM

FAN COIL CASSETTE



INFRARED REMOTE CONTROLLER (standard)



WIRED CONTROLLER (optional)



GENERAL SPECIFICATION

- 2 versions - for 2 pipes plant and for 4 pipes plant
- 4 model available for 2 pipes type and 2 model for 4 pipes type
- New EC motor with low consumptions up to 30% respect to a standard motor
- Controlled by infrared remote controller (standard) and a wired controller (optional)
- Timer setting
- Available function: Heating, Cooling, Dehumidification, Automatic

CONTROLLER

INFRARED REMOTE CONTROLLER (Standard)

This controller is very easy to use and all parameters are under control. The limit trasmitting distance of this remote controller is 10 m. Already supplied with the unit.

WIRED CONTROLLER (Optional)

This controller is very easy to use and all parameters are under control. In this case, the panel is fixed to the wall and connected to the unit by a wire.

OPTIONAL ACCESSORIES

The following accessories are available for this category:

3-WAY VALVE KIT(obligatory for operation in the cooling mode)

The three-way valve is not only required to control the ambient temperature, but also to block the flow of chilled water to the coil should the level of condensed water in the tray rise in an abnormal way.
It is obligatory to install this valve if the unit is used for operation in the cooling mode. It avoids excessive cooling when fan is idle, thus preventing the unpleasant formation of condensation inside the machine.
The kit includes copper pipe connections and 3-way valve with ON/OFF electrothermic actuator, suitable for 230V power input. The valve is controlled by main board of the unit.

DRIP TRAY

This PVC tray collects and conveys outside condensation from pipe connections and 3-way valve kit (if present).

MODELS			400	600	850	1500	400-4T	750-4T
Version			2 pipes				4 pipes	
Power supply		V-f-Hz	230-1-50					
Air Flow	Max	m³/h	717	1133	1441	1850	717	1233
	Med	m³/h	502	793	1009	1295	502	863
	Min	m³/h	359	567	721	925	359	617
Cooling capacity (1)	Max	W	3930	5580	6840	10640	2880	5180
	Med	W	3070	4350	5330	8090	2190	3940
	Min	W	2480	3520	4300	6600	1800	3260
Water flow		l/h	676	960	1176	1830	495	891
Cooling water pressure drop		kPa	12	21	27	34	14.5	12
Heating Capacity (2)	Max	W	5340	7720	9370	14380	-	-
	Med	W	4000	5920	7250	11290	-	-
	Min	W	3150	4500	5500	8440	-	-
Heating Capacity (3)	Max	W	-	-	-	-	4730	7410
	Med	W	-	-	-	-	3600	5640
	Min	W	-	-	-	-	2980	4670
Water flow (2)		m³/h	676	960	1176	1830	-	-
Water flow (3)		m³/h	-	-	-	-	407	637
Heating water pressure drop		kPa	10.6	22	23	34	29.1	42
Power input		W	27	42	70	124	27	50
Sound pressure level	Max-Med-Min	dB(A)	40 - 36 - 28	42 - 33 - 26	46 - 36 - 28	50 - 40 - 33	40 - 36 - 28	42 - 34 - 26
Pipe connection		"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Pipe connection auxiliary		"	-	-	-	-	1/2"	1/2"
Net \ Gross weight Body		Kg	16.5/21.5	23/28	27/33	29/34.5	17/23	28/34
Net \ Gross weight Panel		Kg	2.5/4.5	6/9	6/9	6/9	2.5/4.5	6/9
CODE	**FCM**		**2C097A0F**	**2C097A1F**	**2C097A2F**	**2C097A3F**	**2C097B0F**	**2C097B1F**
	Cover grille (small)		**2C097AAF**	-			**2C097AAF**	-
	Cover grille (big)		-	**2C097BAF**			-	**2C097BAF**

NOTE: (1) (1) Air T=27°C D.B. / 19°C W.B. , Water IN/OUT 7°/12°C, design air flow; For medium and low fan speed, water flow as in maximum fan speed mode. **(2)** Air T=20°C D.B., water inlet temperature 50°C, water flow as in cooling mode. **(3)** Air T=20°C D.B., water IN/OUT 70°/60°C, design air flow; For medium and low fan speed, water flow as in maximum fan speed mode. **(4)** Sound pressure level in 100m² room with 0.5sec of reverberation time

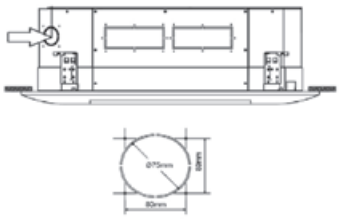
ACCESSORIES

MODELS	400	600	850	1500	400-4T	750-4T
VT1 - 3 way valve for main exchanger	20Z19000	-			20Z19000	-
VT2 - 3 way valve for main exchanger	-	20Z19340			-	
VT3 - 3 way valve for main exchanger	-					20Z19350
VT4 - 3 way valve for additional exchanger	-				20Z19020	-
VT5 - 3 way valve for additional exchanger	-					20Z19360
Drip tray	2C097FAF	-			2C097FAF	-
Drip tray	-	2C097GAF	-			2C097GAF
Wired control	2C097DAF					
Centralised control	2C097EAF					

OPTION INSTALLATION

Fresh air flow input

For fresh air flow input there is a pre-cut hole to connect the unit to a circular duct. It is possible to control fresh air flow by an external fan (not included). This fan can be controlled by main board of the unit.

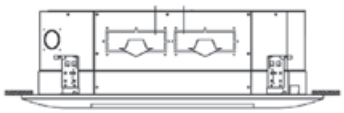


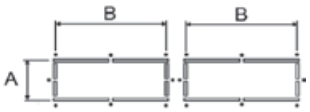
4 PIPES MODEL	400-4	750-4
2 PIPES MODEL	400	600 - 850 - 1500
Ø	65	75

Air delivery into an adjacent room

On all sides there are pre-cut hole to connect the unit to adjacent rooms by some ducts.

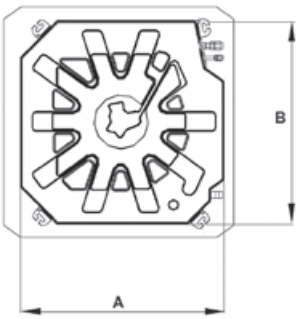
4 PIPES MODEL	2 PIPES MODEL	A (mm)	B (mm)	Ø (mm)
400-4	400	-	-	150
-	600	75	160	-
750-4	850 - 1500	95	160	-

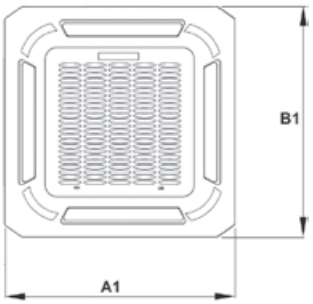


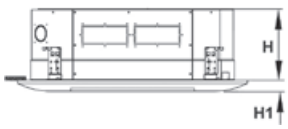


DIMENSION

4 PIPES MODEL		400-4	-	750-4	
2 PIPES MODEL		400	600	850	1500
Body	A (mm)	575	840	840	
	B (mm)	575	840	840	
	H (mm)	260	230	300	
Panel	A1 (mm)	647	950	950	
	B1 (mm)	647	950	950	
	H1 (mm)	50	45	45	







PROTEO - PROTEO HP

DIE-CAST ALUMINIUM RADIATORS

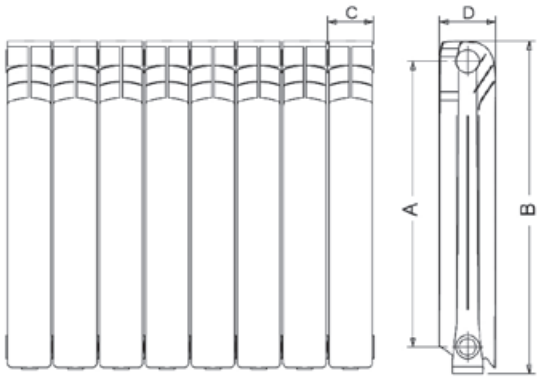

PROTEO


PROTEO HP

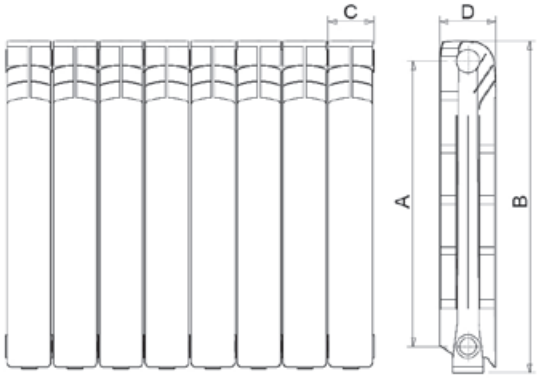
> PRODUCT FEATURES

- Die-cast aluminium radiators assembled with nipples and gaskets in sets of 4 to 10 elements
- Painted white (RAL 9010)
- A careful study of the shapes has made it possible to obtain particularly effective convective exchange fins, with one of the highest thermal efficiencies on the market
- The packaging consists of four corner pieces in thick cardboard, protected by a heat-shrinkable nylon cover. IT was designed to be able to install the radiator without removing the cardboard corners in order to protect it until the work is completed
- The HP models (600 and 700) are built with a reinforced structure capable of running at high operating pressures, up to a maximum of 16 bar

PROTEO



PROTEO HP



** only mod. HP*



MOD.	HEAT OUTPUT			EXPONENT	CONSTANT	MAX OPERATING PRESS.	WATER CONTENT	CONNECTION CENTRE DISTANCE	HEIGHT	WIDTH	DEPTH	CONNEC-TIONS
	Δt 30K	Δt 40K	Δt 50K					A	B	C	D	
	Watt/el	Watt/el	Watt/el	n	k_m	bar	litres/el.	mm	mm	mm	mm	inches
PROTEO 450	47.4	69.0	92.0	1.30565	0.558700	6	0.310	350	431.0	80	100	1
PROTEO HP 600	55.8	81.1	106.6	1.29670	0.678240	16	0.320	500	581.5	80	100	1
PROTEO HP 700	64.9	94.2	125.7	1.29403	0.795932	16	0.354	600	681.5	80	100	1
PROTEO 800	81.0	119.6	161.0	1.35387	0.810530	6	0.500	700	781.0	80	100	1
PROTEO 900	86.9	126.8	170.0	1.31409	0.995242	10	0.520	800	881.0	80	98	1

NB: For the chemical-physical characteristics of the water in the thermal circuit, strictly observe standard UNI 8065
Thermal missions in WATT (according to standard EN 442 with ΔT=50°C) - Characteristic equation of the model: $ø = K_m \times (\Delta T)^n$

> ACCESSORIES ON REQUEST

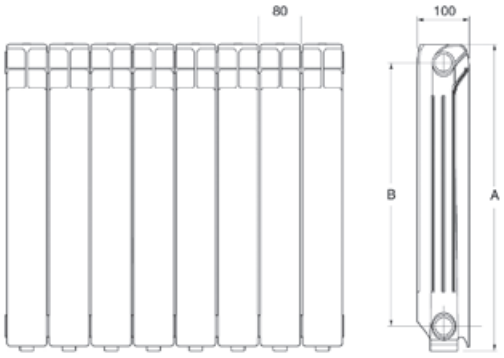
CODE	DESCRIPTION
ZE19993000	1" RH-LH NIPPLE
ZE19993010	1" GASKET

XIAN N

DIE-CAST ALUMINIUM RADIATORS



- Die-cast aluminium radiator with 2 front convective fins
- Elegant design of the rounded top head. Besides aesthetic appearance of the rounded edge and along with the gradual curve of the convective fins alloy a uniform distribution of warmed air, without turbulences and air flows towards the wall
- 6 bar as maximum operating pressure
- Blocks are assembled in factory in units from 2 to 12 sections (Mod. 600 from 2 to 14 sections)
- Sections are assembled each other in the factory via an inorganic elastic joint, with unbeatable resistance to high temperature and pressures, dilatations, circuit additives, chemical gaseous reactions in the heating system. This results in the maximum watertightness of the radiator itself



MODEL			450	600	700	800
Thermal emission EN 442	Δt 50°C	W	90.8	122.9	142.2	160.2
	Δt 60°C	W	115.1	156.2	181.4	204.3
Exponent index n			1.30483	1.31423	1.334	1.33487
Constant Km			0.5508	0.719	0.7702	0.86447
Water content		Liters	0.31	0.39	0.45	0.5
Dimensions	Total height (A)	mm	431	581	681	781
	Tapping center (B)	mm	350	500	600	700
Connections	Diameter	inches	1”	1”	1”	1”

> ACCESSORIES ON REQUEST

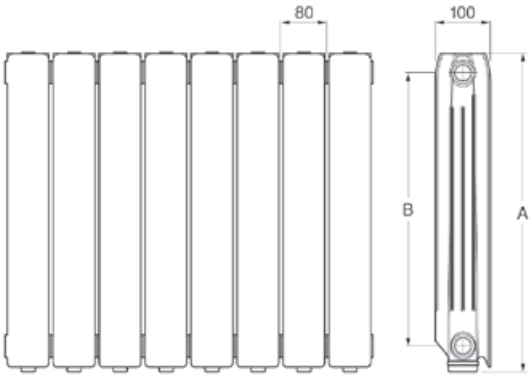
CODE	DESCRIPTION
ZE19993000	1” RH-LH NIPPLE
ZE19993010	1” GASKET

EUROPA C

DIE-CAST
ALUMINIUM RADIATOR



- Die-cast aluminium radiator with flat surface
- It is is the ideal smart solution which fits perfectly with any style of furniture, thanks to its sober and elegant design
- 6 bar as maximum operating pressure
- Blocks are assembled in factory in units from 2 to 12 sections
- Each section is painted individually through expoxy powder coating: this results in a brilliant surface, resistant to heat throughout the years
- Sections are assembled each other in the factoy via an inorganic elastic joint, with unbeatable resistance to high temperature and pressures, dilatations, circuit additives, chemical gaseous reactions in the heating system. This results in the maximum watertightness of the radiator itself.



MODEL			450 C	600 C	700 C	800 C
Thermal emission EN 442	Δt 50°C	W	89.2	119.8	137.1	158.0
	Δt 60°C	W	112.7	152.3	174.3	200.9
Exponent index n			1.27784	1.31869	1.31598	1.32052
Constant Km			0.601947	0.688627	0.796525	0.901564
Water content		Liters	0.31	0.39	0.45	0.50
Dimensions	Total height (A)	mm	431	581	681	781
	Tapping center (B)	mm	350	500	600	700
Connections	Diameter	inches	1”	1”	1”	1”

> ACCESSORIES ON REQUEST

CODE	DESCRIPTION
ZE19993000	1” RH-LH NIPPLE
ZE19993010	1” GASKET

TAL EXTRUDED ALUMINIUM DESIGN RADIATOR

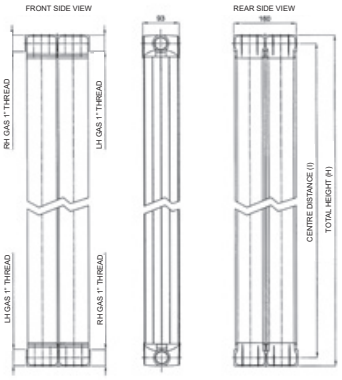


> PRODUCT FEATURES

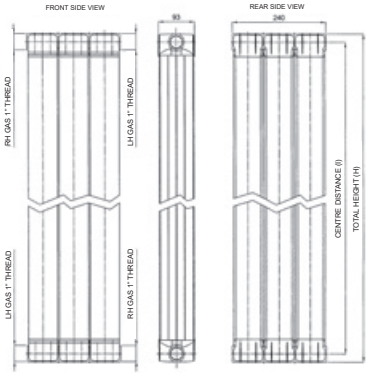
TAL is an aluminium design radiator, consisting of vertical extruded bars and die cast heads. The modern design gives it wide flexibility of use while the accuracy and careful construction guarantee high quality and durability.

- Consisting of aluminium die cast heads and extruded bars
- Exclusively supplied in inseparable modules of 2 or 3 elements
- Using nipples and OR gasket (optional), the modules can be assembled in groups tailored to your needs
- Reversible up/down (not front/rear). Used both in traditional and single-pipe installations
- Maximum operating pressure 10 bar
- 1" gas connections
- Painted white RAL 9010

TAL 2 (2-ELEMENT MODULE)



TAL 3 (3-ELEMENT MODULE)



TAL	ELEMENT DIMENSIONS				NOMINAL THERMAL POWERS by element		NOMINAL THERMAL POWERS by element		Km	n	CODE
	Length	Height	Depth	Axle distance	ø 30	ø 50	ø 30	ø 50			
	mm	H mm	mm	A mm	W	W	W	W			
2 - 1000	80	1043	93.3	1000	98.2	193.7	196.4	387.4	1.06975	1.32895	**16501020**
2 - 1200	80	1243	93.3	1200	112.3	221.8	224.6	443.6	1.20816	1.33250	**16502020**
2 - 1400	80	1443	93.3	1400	125.9	249.2	251.8	498.4	1.33846	1.33605	**16503020**
2 - 1600	80	1643	93.3	1600	139.2	276.0	278.4	552.0	1.46181	1.33960	**16504020**
2 - 1800	80	1843	93.3	1800	152.1	302.3	304.2	604.6	1.57190	1.34431	**16505020**
2 - 2000	80	2043	93.3	2000	164.8	328.2	329.6	656.4	1.67565	1.34901	**16506020**
3 - 1000	80	1043	93.3	1000	98.2	193.7	294.6	581.1	1.06975	1.32895	**16501030**
3 - 1200	80	1243	93.3	1200	112.3	221.8	336.9	665.4	1.20816	1.33250	**16502030**
3 - 1400	80	1443	93.3	1400	125.9	249.2	377.7	747.6	1.33846	1.33605	**16503030**
3 - 1600	80	1643	93.3	1600	139.2	276.0	417.6	828.0	1.46181	1.33960	**16504030**
3 - 1800	80	1843	93.3	1800	152.1	302.3	456.3	906.9	1.57190	1.34431	**16505030**
3 - 2000	80	2043	93.3	2000	164.8	328.2	494.4	984.6	1.67565	1.34901	**16506030**

Thermal powers in different operating conditions (characteristic curve): ø = Km x ΔT n

> ACCESSORIES ON REQUEST

CODE	DESCRIPTION
19991334	TAL ASSEMBLY KIT 2-3 ELEMENTS AND SINGLE-PIPE DIAPHRAGM
19999932	PACK. OF 2 ADJUSTABLE SHELVES 2xT3

FERROLI STEEL PANEL RADIATOR 4 OR 6 CONNECTIONS



- 5 types, 5 heights
- 20 different lenghts between 400 - 3000 mm
- 4 or 6 connections radiators for a total choice of 1000 models
- Optionally equipped with compact plug or insert regulation valve
- Easy-to-clean thanks to removable top grills and side covers
- Convectors are directly welded on the wet ducts of the radiator to minimize thermal losses and get maximum performance
- Protected against damages during transport and storage by strong packaging system
- Ferroli steel panel radiators are equipped as a standard in the package with wall brackets, fischer screws, one blind pug and one air vent. For 6-connection-radiators, such accessories are available upon request







ACCESSORIES

	DESCRIPTION
	4 connection models: package includes wall brackets, fischer screws, one blind plug, one air vent
	6 connection models: abovementioned accessories supplied as an option

TYPE	DESCRIPTION	HEIGHT				
		300	400	500	600	900
11	Output Δt 50°C	451	606	755	895	1248
	Exponent n	1.31042	1.30793	1.30542	1.30291	1.30915
	Constant Km	2.67558	3.63458	4.57361	5.47064	7.44692
	Water content (lts)	1.7	2.1	2.6	3.0	1.2
20	Output Δt 50°C	555	706	850	990	1394
	Exponent n	1.3116	1.30977	1.30794	1.30611	1.31338
	Constant Km	3.28268	4.20054	5.09711	5.98081	8.18149
	Water content (lts)	3.3	4.2	5.1	5.9	8.2
21	Output Δt 50°C	722	927	1122	1307	1803
	Exponent n	1.31467	1.31913	1.32363	1.32809	1.34125
	Constant Km	4.21563	5.31835	6.32695	7.23965	9.49006
	Water content (lts)	3.3	4.2	5.1	5.9	8.2
22	Output Δt 50°C	930	1195	1449	1694	2384
	Exponent n	1.30076	1.315	1.32925	1.34349	1.32728
	Constant Km	5.73718	6.97149	7.99442	8.83753	13.2531
	Water content (lts)	3.3	4.2	5.1	5.9	8.2
33	Output Δt 50°C	1340	1723	2083	2424	3314
	Exponent n	1.30515	1.30686	1.30856	1.31027	1.33485
	Constant Km	8.11901	10.37419	12.45639	14.39815	17.88446
	Water content (lts)	4.4	5.8	7.2	8.6	12.7

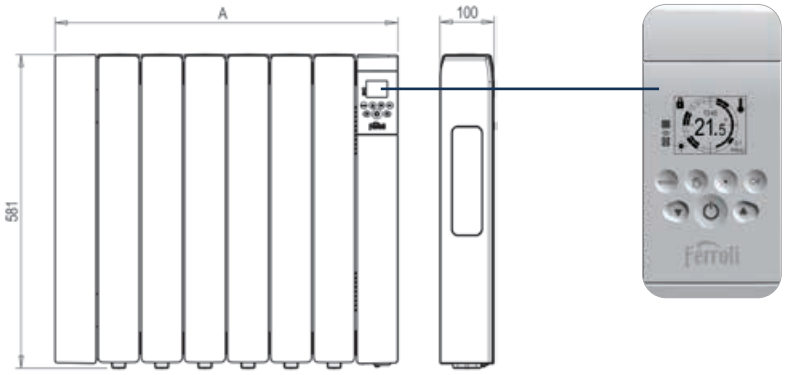
RIMINI DP

ELECTRIC
OIL RADIATOR



> PRODUCT FEATURES

- Electric oil radiator and aluminium closed-plate elements
- Delivered complete with wall mounting kit
- PID regulation control with TRIAC cutting system, for improved temperature stability
- Large high-resolution LCD screen (FTF) for easier parameter reading
- Settable operating modes: Stand-by, Comfort, Economy, Antifrost, Programming, Manual
- Daily and weekly programming in Comfort, Economy and Antifrost mode, in ½ hour time slots
- Keyboard blocking system (child safety)
- Open windows function: automatic shutdown in case of sudden drop of 4°C over a period of 20 minutes
- Optional remote control



RIMINI DP	HEAT OUTPUT	NO. ELEMENTS	POWER SUPPLY	WEIGHT	MEASUREMENTS (mm)			CODE
	W		V/Hz	Kg	Height	Width (A)	Depth	
RIMINI DP 500	500	3	230 / 50	6.4	581	396	100	**17EY5035**
RIMINI DP 750	750	5	230 / 50	9	581	556	100	**17EY5055**
RIMINI DP 1000	1000	6	230 / 50	10.5	581	636	100	**17EY5065**
RIMINI DP 1200	1200	7	230 / 50	11.9	581	716	100	**17EY5075**
RIMINI DP 1500	1500	9	230 / 50	14.6	581	876	100	**17EY5095**

NAPOLI

INVERTER SMART
ELECTRIC DRY RADIATOR



> STRENGTHS:

- Dry thermal emitter with power ratings from 600 to 1,800 W
- Inverter technology (PID + TRIAC control), offering up to 30% energy savings compared to traditional models
- Heats through a stainless steel finned heating element (no liquid inside) - ideal for quickly warming up rooms
- Equipped with smart functions: open window detection, adaptive start-up control, forced mode or absence function, and anti-frost mode
- Inverter-based control system: PID regulation with TRIAC switching ensures fast, precise thermal response, optimizing comfort and minimizing energy consumption
- Finned element heating: no internal fluid, no risk of leakage, and immediate response to thermal demand
- Chronothermostat with hourly programming: enables scheduled heating periods for maximum comfort
- Four operating modes for optimal efficiency and control: Comfort / Economy / Anti-frost / Programming

> SMART FUNCTIONS:

- Open window detection: the unit automatically switches off when a temperature drop of 4°C is detected within 20 minutes
- Adaptive start-up control: ensures the desired room temperature is reached at the programmed time
- Forced or absence mode: responds to unexpected changes and automatically resumes the scheduled program
- Backup battery (10-year lifespan): maintains settings during power outages - ideal for second homes or areas with unreliable electricity
- Easy mode: disables all advanced functions except ON/OFF and temperature adjustment, for simplified use

CONTROL PANEL



Capacitive keypad
Large TFT display
Backlight illumination

MODEL		600	1000	1200	1500	1800
Power output	W	600	1.000	1.200	1.500	1.800
Class		I	I	I	I	I
Electrical protection rating		IP2X	IP2X	IP2X	IP2X	IP2X
Heated surface	m^2	up to 8	up to 12	up to 14	up to 17	up to 20
Dimensions height / width / depth	mm	450 / 550 / 85	450 / 550 / 85	450 / 850 / 85	450 / 850 / 85	450 / 850 / 85
CODE		**20G000069**	**20G000109**	**20G000129**	**20G000159**	**20G000189**
WHEELS AND LEGS KIT		**C41018510**				
LEGS KIT		**C41018500**				

RESIDENTIAL & COMMERCIAL AC

GIADA S

WALL-HUNG MONOSPLIT DC INVERTER IN HEAT PUMP



> GENERAL CHARACTERISTICS:

- R32 Eco Coolant
- Efficiency Class A++ / A+++
- 4 Filters: **Cold Catalyst, Active Carbon, Silver Ion and Biohepa**. New four-layer filter technology that purifies the air and removes gases, odours, formaldehydes, pollutants, bacteria, viruses and fungi from it
- New **Super Ioniser** that releases millions of ions to drastically reduce the presence of viruses and bacteria in the air
- Remote control with dedicated smartphone App
- **Compatible with the "Amazon Alexa" and "Google Home" voice assistants**
- Temperature display on board the machine
- Featuring direct current inverter technology
- Indoor unit with particularly appealing and modern design
- Outdoor unit equipped with fitting covers and sound-absorbent jacket
- Easily removable intake grille and filters for quick cleaning
- Automatic restart in case of a power outage
- Night operating mode / "AUTOMATIC" mode / Timer function
- Outdoor unit treated with protective anti-rust substances
- Wi-fi connectivity included

Filtering
Q·U·A·D·R·U·P·L·E

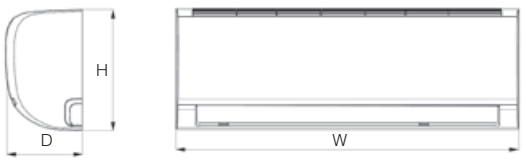
QUADRUPLE FILTER TECHNOLOGY & SUPER IONIZER



COMPATIBLE WITH

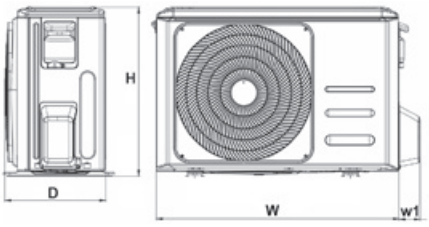


INDOOR UNIT



MODEL	W mm	H mm	D mm	Weight kg
9	805	285	194	7,6
12	805	285	194	7,6
18	957	302	213	10,0
24	1040	327	220	12,3

OUTDOOR UNIT



MODEL	W mm	H mm	D mm	Weight kg
9	720	495	270	23,2
12	720	495	270	23,2
18	802	554	330	32,7
24	890	673	342	42,9

MODEL			09	12	18	24
Power supply		V-Ph-Hz	220/240 V - 1 phase - 50Hz			
Cooling power (1)	nominal	W	2,770	3,350	5,270	5,860
	min-max	W	908 ~ 3,398	1,113 ~ 4,160	3,390 ~ 5,830	2,080 ~ 7,910
Power absorbed in cooling	nominal	W	769	1,021	1,550	1,787
	min-max	W	100 ~ 1,240	130 ~ 1,580	560 ~ 2,050	420 ~ 3,150
Current absorbed in cooling	nominal	A	3.34	4.44	6.70	7.77
	min-max	A	0.4 ~ 5.4	0.5 ~ 6.9	2.4 ~ 8.9	1.8 ~ 13.8
EER ref. Standard EN14511 (nominal)			3.60	3.28	3.40	3.28
Cooling	SEER		6.30	6.10	7.40	6.10
	PdesignC	kW	2.80	3.60	5.20	7.00
	Class ErP					
Thermal power (2)	nominal	W	2,930	3,570	4,970	6,000
	min-max	W	820 ~ 3,369	1,084 ~ 4,220	3,100 ~ 5,850	1,610 ~ 7,910
Power absorbed in heating	nominal	W	733	963	1,298	1,608
	min-max	W	120 ~ 1,200	100 ~ 1,680	780 ~ 2,000	300 ~ 2,750
Current absorbed in heating	nominal	A	3.18	4.19	5.64	6.99
	min-max	A	0.5 ~ 5.2	0.4 ~ 6.9	3.4 ~ 8.7	1.3 ~ 12.2
COP ref. Standard EN14511 (nominal)			3.99	3.71	3.83	3.73
Heating Moderate climate zone	SCOP	W/W	4.00	4.00	4.00	4.00
	PdesignH	kW	2.60	2.70	4.10	4.80
	Seasonal energy efficiency *	ηs (%)	157	157	157	157
	Class ErP					
	Tbiv / Tol	°C	-7 / -15	-7 / -15	-7 / -15	-7 / -15
Heating Warm climate zone	SCOP	W/W	5.10	5.10	5.10	5.10
	PdesignH	kW	2.60	2.50	4.40	5.60
	Class ErP					
	Tbiv / Tol	°C	2 / -15	2 / -15	2 / -15	2 / -15
Maximum power absorbed		W	2,150	2,150	2,500	3,500
Maximum current absorbed		A	10	10	13	15.5
Inrush current		A	Negligible thanks to inverter technology			
Indoor unit	Air flow rate (max-med-min)	m³/h	466 / 360 / 325	540 / 430 / 314	840 / 680 / 540	980 / 817 / 662
	Sound pressure (3) (max-med-min)	dB(A)	38.5 / 32 / 25	40.5 / 34.5 / 25	42.5 / 36 / 26	45 / 40.5 / 36
	Sound pressure (max)	dB(A)	54	55	56	59
Outdoor unit	Air flow rate	m³/h	1,750	1,800	2,100	3,500
	Sound pressure (3)	dB(A)	55.5	56	56	59
	Sound power	dB(A)	62	63	63	67
Refrigerant gas	Type / GWP		R32 / 675			
	Load quantity	kg	0.55	0.55	1.08	1.42
Liquid / gas line connections		inches	1/4" - 3/8"	1/4" - 3/8"	1/4" - 1/2"	3/8" - 5/8"
Maximum length refrigeration lines		m	25	25	30	50
Maximum height difference		m	10	10	20	25
CODE	**INDOOR UNIT**		**2CP001HF**	**2CP001IF**	**2CP001JF**	**2CP001KF**
	OUTDOOR UNIT		**2CP001LF**	**2CP001MF**	**2CP001NF**	**2CP001OF**

(1) External air temperature = 35°C D.B. • Room air temperature = 27°C D.B. / 19°C W.B. - **(2)** External air temperature = 7°C D.B. / 6°C W.B. • Room air temperature = 20°C D.B. - **(3)** Sound pressure measured at a distance of 1 m: E.U. in open area, I.U. in 100 m³ room with 0.5 second reverberation time

(*) Values obtained in accordance with standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and with European Regulations (EU) No. 626/2011 and No. 206/2012.

GIADA M

WALL HUNG MULTISPLIT
DC INVERTER IN HEAT PUMP



> GENERAL CHARACTERISTICS:

- R32 Eco Coolant
- Efficiency Class A++ / A+++
- 4 Filters: **Cold Catalyst, Active Carbon, Silver Ion and Biohepa**. New four-layer filter technology that purifies the air and removes gases, odours, formaldehydes, pollutants, bacteria, viruses and fungi from it
- New **Super Ioniser** that releases millions of ions to drastically reduce the presence of viruses and bacteria in the air
- Remote control with dedicated smartphone App
- **Compatible with the "Amazon Alexa" and "Google Home" voice assistants**
- Wide range of combinable powers
- Outdoor unit combinable with different types of indoor units
- Temperature display on board the machine
- Featuring direct current inverter technology
- Indoor unit with particularly appealing and modern design
- Outdoor unit equipped with fitting covers and sound-absorbent jacket
- Easily removable intake grille and filters for quick cleaning
- Automatic restart in case of a power outage
- Night operating mode / "AUTOMATIC" mode / Timer function
- Outdoor unit treated with protective anti-rust substances
- Wi-fi connectivity included

Filtering
Q·U·A·D·R·U·P·L·E

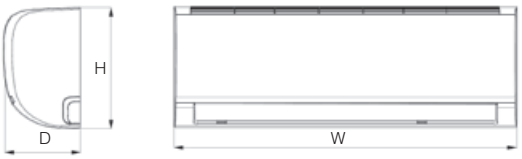
QUADRUPLE FILTER TECHNOLOGY & SUPER IONIZER



COMPATIBLE WITH

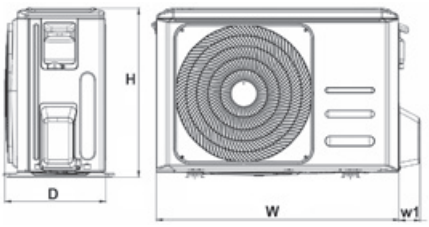


INDOOR UNIT



MODEL	W mm	H mm	D mm	Peso kg
9	805	285	194	7,6
12	805	285	194	7,6
18	957	302	213	10,0

OUTDOOR UNIT



MODEL	W mm	W1 mm	H mm	D mm	Peso kg
18-2	805	72	554	330	35
21-3	890	100	673	342	43,3
27-3	890	100	673	342	48
28-4	946	88	810	410	61,1

OUTDOOR UNIT			18-2	21-3	27-3	28-4
Power supply		V-Ph-Hz				
Cooling power (1)	nominal	W	5,275	6,155	7,913	8,205
	min-max	W	2,285 ~ 5,715	1,995 ~ 6,595	3,180 ~ 8,205	2,050 ~ 9,845
Power absorbed in cooling	nominal	W	1,635	1,905	2,450	2,540
	min-max	W	690 ~ 2,000	180 ~ 2,200	290 ~ 3,100	890 ~ 3,180
Current absorbed in cooling	nominal	A	7.3	8.3	11.2	11.3
	min-max	A	3.2 ~ 9.0	2.0 ~ 10.0	2.0 ~ 13.5	3.9 ~ 14.1
EER ref. Standard EN14511 (nominal)			3.23	3.23	3.23	3.23
Cooling	SEER		6.1	6.1	6.1	6.1
	PdesignC	kW	5.3	6.1	7.9	8.2
	Class ErP					
Thermal power (2)	nominal	W	5,570	6,450	8,205	8,790
	min-max	W	2,405 ~ 5,745	1,450 ~ 6,680	2,285 ~ 8,500	2,345 ~ 10,550
Power absorbed in heating	nominal	W	1,500	1,738	2,210	2,200
	min-max	W	600 ~ 1,780	350 ~ 1,800	370 ~ 2,900	770 ~ 2,750
Current absorbed in heating	nominal	A	6.6	7.6	10.1	9.8
	min-max	A	2.80 ~ 7.95	2.6 ~ 8.0	2.4 ~ 13.0	3.4 ~ 12.2
COP ref. Standard EN14511 (nominal)			3.71	3.71	3.71	4.00
Heating Moderate climate zone	SCOP	W/W	3.8	4	4.0	3.8
	PdesignH	kW	4.8	5.4	5.6	6.5
	Seasonal energy efficiency *	ηs (%)	149	157	157	149
	Class ErP					
	Tbiv / Tol	°C	-7 / -15	-7 / -15	-7 / -15	-7 / -15
Heating Warm climate zone	SCOP	W/W	5.1	4.8	5.1	4.6
	PdesignH	kW	5	5.6	6.1	6.9
	Class ErP					
	Tbiv / Tol	°C	2 / -15	2 / -15	2 / -15	2 / -15
Maximum power absorbed		W	3,050	3,910	4,100	4,150
Maximum current absorbed		A	12	17	18	19
Inrush current		A				
Outdoor unit	Air flow rate	m³/h	2,100	3,000	3,000	3,800
	Sound pressure (3)	dB(A)	54	58	58	61.5
	Sound power	dB(A)	65	65	67	67
Refrigerant gas	Type / GWP					
	Load quantity	kg	1.25	1.5	1.85	2.1
CODE			**2CP001PF**	**2CP001QF**	**2CP011RF**	**2CP001SF**

INDOOR UNIT		9	12	18
Cooling performance	W	2,640	3,515	5,275
Thermal performance	W	2,930	3,810	5,570
Air flow rate (max-med-min)	m³/h	520 / 460 / 340	600 / 500 / 360	840 / 680 / 540
Sound pressure (max-med-min-slo)	dB(A)	40 / 30 / 26 / 21	40 / 34 / 26 / 22	44 / 37 / 30 / 25
Sound pressure (max)	dB(A)	54	53	55
Liquid / gas line connections	inches	1/4" - 3/8"	1/4" - 3/8"	1/4" - 1/2"
CODE		**2CP001HF**	**2CP001IF**	**2CP001JF**

(1) External air temperature = 35°C D.B. • Room air temperature = 27°C D.B. / 19°C W.B. - **(2)** External air temperature = 7°C D.B. / 6°C W.B. • Room air temperature = 20°C D.B. - **(3)** Sound pressure measured at a distance of 1 m: E.U. in open area, I.U. in 100 m³ room with 0.5 second reverberation time
(*) Values obtained in accordance with standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and with European Regulations (EU) No. 626/2011 and No. 206/2012.

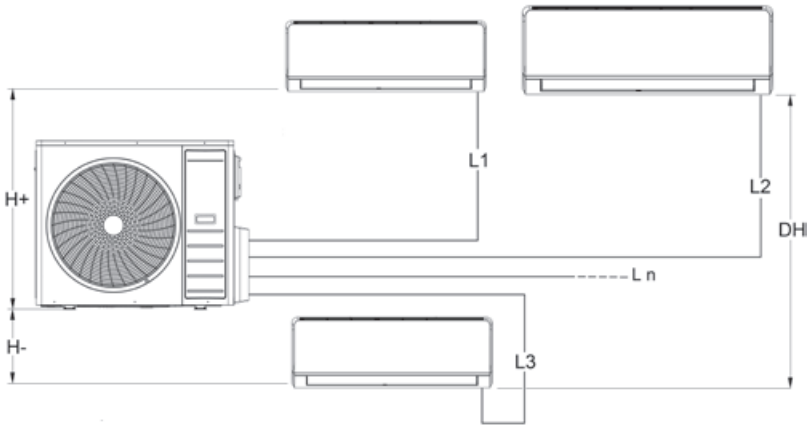
FIELD OF APPLICATION

OPERATING MODE	PARAMETER		INDOOR SIDE	OUTDOOR SIDE
Cooling	Input air max/min temperature (B.S.)	°C	32 / 17	50 / -15
Heating	Input air max/min temperature (B.S.)	°C	30 / 0	24 / -15
All	Power voltage / frequency	V	230±10% / 50±2	

LIMITS ON LENGTH AND HEIGHT DIFFERENCE OF COOLING PIPES

The length of the cooling pipes between the indoor and outdoor units must be the shortest possible and is, in any case, limited by the maximum values in height difference between the two units.

With the decrease in the difference in height between the units (H1,H2) and the length of the pipes (L), the load loss will be limited, thus increasing the overall performance of the machine. Observe the limits indicated in the following tables.



OUTDOOR UNIT			18-2	21-3			27-3			28-4			
Diameter	Liquid	"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	Gas	"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"
Tot. maximum length		m	40	60			60			80			
Maximum length single unit		m	25	30			30			35			
Maximum height difference	H+	m	15	15			15			15			
	H-	m	15	15			15			15			
	DH	m	10	10			10			10			
Maximum total length of piping with standard charge		m	7.5	7.5			7.5			7.5			
Additional quantity of refrigerant per metre		g/m	12	12	12	12	12	12	12	12	12	12	24

TABLE OF POSSIBLE COMBINATIONS

OUTDOOR UNIT	INDOOR UNIT CONNECTED					
	1	2		3		4
18-2	9K	9K+9K	-	not included		not included
	12K	9K+12K	-			
	18K	12K+12K	-			
21-3	9K	9K+9K	12K+12K	9K+9K+9K	-	not included
	12K	9K+12K	-	9K+9K+12K	-	
	18K	9K+18K	-	-	-	
27-3	9K	9K+9K	12K+12K	9K+9K+9K	9K+12K+12K	not included
	12K	9K+12K	12K+18K	9K+9K+12K	12K+12K+12K	
	18K	9K+18K	-	9K+9K+18K	-	
28-4	9K	9K+9K	12K+12K	9K+9K+9K	9K+12K+12K	9K+9K+9K+9K
	12K	9K+12K	12K+18K	9K+9K+12K	12K+12K+12K	9K+9K+9K+12K
	18K	9K+18K	18K+18K	9K+9K+18K	-	-

NB:

- Outdoor unit also compatible with Giada indoor units (Wall-mounted - Cassette - Duct - Floor&Ceiling)
- combinations for which the total power required by the indoor units is compatible with the nominal power of the outdoor unit.
- combinations for which the total power required by the indoor units is higher than the nominal power of the outdoor unit. In the event of a simultaneous request for power by all the units connected, the power available for the individual units will be in line with the indications given in the previous table.

PERFORMANCE IN COOLING MODE

EU	IU	Combination	Partial capacity (kW) Room				Total capacity in cooling (kW)			Power absorbed Total (kW)			Current absorbed Total (A)			EER	SEER	Energy Class
			A	B	C	D	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Nom		
18-2	1	9	2.50	—	—	—	1.43	2.50	3.20	0.35	0.75	0.93	1.52	3.24	4.06	3.35	—	—
		12	3.50	—	—	—	1.43	3.50	3.90	0.35	1.08	1.29	1.52	4.68	5.62	3.25	—	—
	2	9+9	2.65	2.65	—	—	2.12	5.30	6.41	0.54	1.64	2.05	2.35	7.13	8.92	3.23	6.1	
		9+12	2.27	3.03	—	—	2.12	5.30	6.41	0.54	1.64	2.05	2.35	7.13	8.92	3.23	6.1	
		12+12	2.65	2.65	—	—	2.12	5.30	6.41	0.54	1.64	2.05	2.35	7.13	8.92	3.23	6.1	
21-3	2	9+9	2.65	2.65	—	—	2.01	5.30	6.41	0.57	1.64	2.08	2.46	7.13	9.03	3.23	5.6	
		9+12	2.57	3.43	—	—	2.01	6.00	6.59	0.57	1.86	2.12	2.46	8.08	9.20	3.23	5.6	
		9+18	2.10	4.20	—	—	2.01	6.30	6.83	0.57	1.94	2.17	2.46	8.45	9.44	3.24	5.6	
		12+12	3.10	3.10	—	—	2.01	6.20	6.83	0.57	1.92	2.17	2.46	8.35	9.44	3.23	5.6	
	3	9+9+9	2.10	2.10	2.10	—	2.44	6.30	7.32	0.68	1.94	2.36	2.96	8.45	10.26	3.24	6.1	
		9+9+12	1.89	1.89	2.52	—	2.44	6.30	7.32	0.68	1.94	2.36	2.96	8.45	10.26	3.24	6.1	
27-3	2	9+9	2.65	2.65	—	—	2.21	5.30	7.11	0.64	1.64	2.45	2.76	7.13	10.63	3.23	5.6	
		9+12	2.57	3.43	—	—	2.21	6.00	7.51	0.64	1.86	2.57	2.76	8.08	11.17	3.23	5.6	
		9+18	2.27	4.53	—	—	2.21	6.80	7.90	0.64	2.09	2.69	2.76	9.10	11.70	3.25	5.6	
		12+12	3.15	3.15	—	—	2.21	6.30	7.66	0.64	1.94	2.64	2.76	8.45	11.48	3.24	5.6	
		12+18	2.72	4.08	—	—	2.21	6.80	7.90	0.64	2.09	2.69	2.76	9.10	11.70	3.25	5.6	
	3	9+9+9	2.63	2.63	2.63	—	2.77	7.90	8.69	0.76	2.45	2.91	3.30	10.63	12.65	3.23	6.1	
		9+9+12	2.37	2.37	3.16	—	2.77	7.90	8.69	0.76	2.43	2.91	3.30	10.57	12.65	3.25	6.1	
		9+12+12	2.15	2.87	2.87	—	2.77	7.90	8.69	0.76	2.43	2.91	3.30	10.57	12.65	3.25	6.1	
		12+12+12	2.63	2.63	2.63	—	2.77	7.90	8.69	0.76	2.43	2.91	3.30	10.57	12.65	3.25	6.1	
28-4	2	9+9	2.65	2.65	—	—	2.05	5.30	6.81	0.64	1.64	2.29	2.76	7.13	9.95	3.23	6.1	
		9+12	2.57	3.43	—	—	2.05	6.00	6.98	0.64	1.86	2.41	2.76	8.08	10.50	3.23	6.1	
		9+18	2.43	4.87	—	—	2.05	7.30	7.55	0.64	2.26	2.80	2.76	9.83	12.16	3.23	6.1	
		12+12	3.25	3.25	—	—	2.05	6.50	7.39	0.64	2.01	2.49	2.76	8.75	10.83	3.23	6.1	
		12+18	2.92	4.38	—	—	2.05	7.30	7.55	0.64	2.26	2.80	2.76	9.83	12.16	3.23	6.1	
		18+18	3.75	3.75	—	—	2.05	7.50	7.55	0.64	2.32	2.80	2.76	10.10	12.16	3.23	6.1	
	3	9+9+9	2.37	2.37	2.37	—	2.63	7.10	8.46	0.76	2.20	2.95	3.32	9.56	12.82	3.23	6.1	
		9+9+12	2.34	2.34	3.12	—	2.63	7.80	8.46	0.76	2.41	2.95	3.32	10.50	12.82	3.23	6.1	
		9+9+18	1.95	1.95	3.90	—	2.63	7.80	8.46	0.76	2.41	2.95	3.32	10.50	12.82	3.23	6.1	
		9+12+12	2.13	2.84	2.84	—	2.63	7.80	8.46	0.76	2.41	2.95	3.32	10.50	12.82	3.23	6.1	
		9+12+18	1.80	2.40	3.60	—	2.62	7.80	8.45	0.76	2.41	2.94	3.31	10.50	12.80	3.23	5.6	
		12+12+12	2.60	2.60	2.60	—	2.63	7.80	8.46	0.76	2.41	2.95	3.32	10.50	12.82	3.23	6.1	
	4	9+9+9+9	2.05	2.05	2.05	2.05	2.87	8.20	9.92	0.86	2.54	3.17	3.75	11.04	13.80	3.23	6.1	
		9+9+9+12	1.89	1.89	1.89	2.52	2.87	8.20	9.92	0.86	2.54	3.17	3.75	11.04	13.80	3.23	6.1	

PERFORMANCE IN HEATING MODE

EU	IU	Combination	Partial capacity (kW) Room				Total capacity in heating (kW)			Power absorbed Total (kW)			Current absorbed Total (A)			COP	SCOP	Energy Class
			A	B	C	D	Min	Nom	Max	Min	Nom	Max	Min	Nom	Max	Nom		
18-2	1	9	3.00	—	—	—	1.56	3.00	3.63	0.32	0.80	1.00	1.39	3.48	4.35	3.75	—	—
		12	3.80	—	—	—	1.56	3.80	4.60	0.32	1.02	1.23	1.39	4.45	5.34	3.71	—	—
	2	9+9	2.79	2.79	—	—	2.23	5.57	6.68	0.51	1.50	2.12	2.22	6.53	9.23	3.71	3.8	
		9+12	2.40	3.20	—	—	2.23	5.60	6.68	0.51	1.51	2.12	2.22	6.56	9.23	3.71	3.8	
		12+12	2.80	2.80	—	—	2.23	5.60	6.96	0.51	1.51	2.12	2.22	6.56	9.23	3.71	3.8	
21-3	2	9+9	2.95	2.95	—	—	2.18	5.90	6.93	0.53	1.59	1.96	2.32	6.91	8.51	3.71	3.8	
		9+12	2.70	3.60	—	—	2.18	6.30	7.13	0.53	1.70	1.99	2.32	7.38	8.66	3.71	3.8	
		9+18	2.20	4.40	—	—	2.18	6.60	7.39	0.53	1.78	2.05	2.32	7.73	8.89	3.71	3.8	
		12+12	3.15	3.15	—	—	2.18	6.30	7.39	0.53	1.70	2.05	2.32	7.38	8.89	3.71	3.8	
	3	9+9+9	2.23	2.23	2.23	—	2.35	6.70	7.92	0.64	1.81	2.22	2.78	7.85	9.67	3.71	4.0	
		9+9+12	2.01	2.01	2.68	—	2.35	6.70	7.92	0.64	1.80	2.22	2.78	7.83	9.67	3.72	4.0	
27-3	2	9+9	3.00	3.00	—	—	2.30	6.00	7.38	0.57	1.61	2.20	2.49	6.99	9.56	3.73	3.8	
		9+12	2.70	3.60	—	—	2.30	6.30	7.79	0.57	1.69	2.31	2.49	7.34	10.04	3.73	3.8	
		9+18	2.33	4.67	—	—	2.30	7.00	8.20	0.57	1.88	2.42	2.49	8.16	10.51	3.73	3.8	
		12+12	3.25	3.25	—	—	2.30	6.50	7.95	0.57	1.74	2.37	2.49	7.58	10.32	3.73	3.8	
		12+18	2.80	4.20	—	—	2.30	7.00	8.20	0.57	1.88	2.42	2.49	8.16	10.51	3.73	3.8	
	3	9+9+9	2.73	2.73	2.73	—	2.87	8.20	9.96	0.68	2.20	2.78	2.96	9.56	12.09	3.73	4.0	
		9+9+12	2.49	2.49	3.32	—	2.87	8.30	9.96	0.68	2.23	2.78	2.96	9.67	12.09	3.73	4.0	
		9+12+12	2.26	3.02	3.02	—	2.87	8.30	9.96	0.68	2.23	2.78	2.96	9.67	12.09	3.73	4.0	
		12+12+12	2.77	2.77	2.77	—	2.87	8.30	9.96	0.68	2.23	2.78	2.96	9.67	12.09	3.73	4.0	
28-4	2	9+9	3.00	3.00	—	—	2.20	6.00	7.30	0.59	1.62	2.13	2.58	7.03	9.28	3.71	3.4	
		9+12	3.00	4.00	—	—	2.20	7.00	7.48	0.59	1.89	2.25	2.58	8.20	9.80	3.71	3.4	
		9+18	2.63	5.27	—	—	2.20	7.90	8.10	0.59	2.13	2.61	2.58	9.26	11.34	3.71	3.4	
		12+12	3.75	3.75	—	—	2.20	7.50	7.92	0.59	2.02	2.32	2.58	8.79	10.11	3.71	3.4	
		12+18	3.20	4.80	—	—	2.20	8.00	8.10	0.59	2.16	2.61	2.58	9.38	11.34	3.71	3.4	
		18+18	4.00	4.00	—	—	2.20	8.00	8.10	0.59	2.16	2.61	2.58	9.38	11.34	3.71	3.4	
	3	9+9+9	2.87	2.87	2.87	—	2.82	8.60	9.06	0.71	2.32	2.75	3.09	10.08	11.96	3.71	3.5	
		9+9+12	2.58	2.58	3.44	—	2.82	8.60	9.06	0.71	2.32	2.75	3.09	10.08	11.96	3.71	3.5	
		9+9+18	2.15	2.15	4.30	—	2.82	8.60	9.06	0.71	2.32	2.75	3.09	10.08	11.96	3.71	3.5	
		9+12+12	2.35	3.13	3.13	—	2.82	8.60	9.06	0.71	2.32	2.75	3.09	10.08	11.96	3.71	3.5	
		9+12+18	1.98	2.65	3.97	—	2.82	8.60	9.06	0.71	2.32	2.75	3.09	10.08	11.96	3.71	3.5	
		12+12+12	2.87	2.87	2.87	—	2.82	8.60	9.06	0.71	2.32	2.75	3.09	10.08	11.96	3.71	3.5	
	4	9+9+9+9	2.23	2.23	2.23	2.23	3.08	8.90	10.65	0.81	2.40	2.96	3.51	10.43	12.89	3.71	3.8	
		9+9+9+12	2.10	2.10	2.10	2.80	3.08	9.10	10.65	0.81	2.45	2.96	3.51	10.66	12.89	3.71	3.8	

GIADA-C CASSETTE

4-WAY CASSETTE IU



mod. 12-18



mod. 24-55T

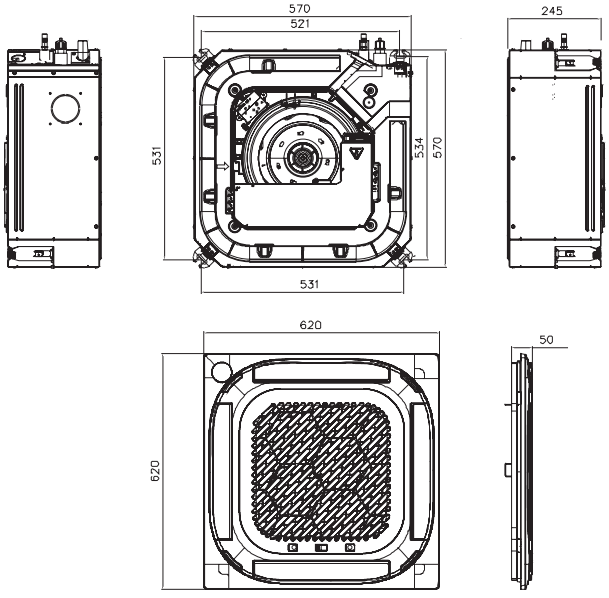
> GENERAL CHARACTERISTICS:

The new cassette is perfect to integrate in any ceeling thanks to reduced dimensions

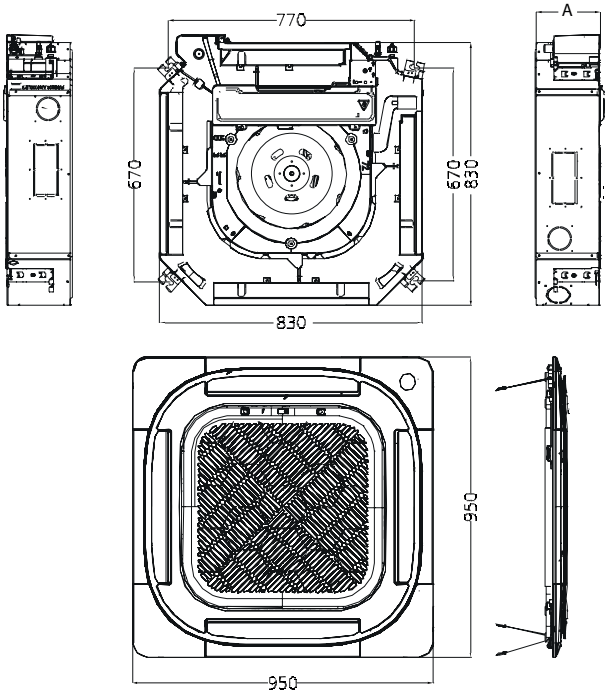
- Cassette internal unit with reduced height
- Golden Fin protection in coil
- DC Inverter fan, to obtein high efficiency and reduced sound level
- 360° outlet air flow for better temperature distribution in the room space
- Integrated condensate drainage pump
- Arrangement for renewal air inlet or intake in adjacent room by canalization
- Infrared remote control as standard with a large display for complete control of the unit (wired remote control available as accessory)
- WIFI connection available. Possibility of controlling the unit via APP



mod. 12-18



mod. 24-55T



MODEL		A
24	mm	205
36-36T	mm	245
48-48T	mm	287
55T	mm	287

MODEL			12	18	24	30	36
Cooling	Pdesignc	kW	3.5	5.3	7.1	8.8	10.5
	SEER	W/W	6.8	6.5	6.3	6.6	6.7
	Energy Efficiency Class		A	A	A	A	A
Heating (Average)	Pdesignh	kW	2.7	4.2	6.2	7.7	8.5
	SCOP	W/W	4.1	4.1	4.1	4.2	4.0
	Seasonal energy efficiency *	ηs (%)	161	161	161	165	157
	Energy Efficiency Class		A	A	A	A	A
	Tbiv	°C	-7	-7	-7	-7	-7
Heating (Warmer)	Pdesignh	kW	3.3	5.3	6.3	7.8	10.1
	SCOP	W/W	5.1	5.1	5.4	5.1	5.1
	Energy Efficiency Class		A	A	A	A	A
	Tbiv	°C	2	2	2	2	2
Tol		°C	-15	-15	-15	-15	-15
Power supply - Indoor		V, Hz, Ph	220-240V,1 Ph, 50Hz				
Power supply - Outdoor		V, Hz, Ph	220-240V, 1Ph, 50Hz				
Cooling	Capacity	Btu/h	12000 (2900~14200)	18000 (9900~20000)	22180 (11250~27000)	30000 (7600~32000)	33956 (9200~39000)
	Capacity	kW	3.52 (0.85~4.16)	5.28 (2.90~5.59)	6.50 (3.29~7.91)	8.79 (2.23~9.38)	9.95 (2.70~11.43)
	Input	W	1015 (160~1450)	1550 (720~2040)	2000 (780~2750)	2720 (190~3000)	2989 (900~4200)
	Current	A	4.5 (1.3~6.4)	6.9 (3.2~9.0)	8.8 (4.2~12)	11.8 (2.0~13.0)	17.5 (4.2~18.5)
	EER	W/W	3.47	3.40	3.25	3.23	3.33
Heating	Capacity	Btu/h	13000 (1600~14800)	18200 (8100~21500)	26000 (9500~29000)	32000 (9200~33200)	38000 (9500~42000)
	Capacity	kW	3.81 (0.47~4.34)	5.33 (2.37~6.10)	7.62 (2.79~8.50)	9.38 (2.70~9.73)	11.14 (2.78~12.30)
	Input	W	1020 (125~1390)	1420 (700~1950)	1900 (610~2300)	2450 (430~2550)	3000 (800~3950)
	Current	A	4.5 (1.1~6.2)	6.0 (3.1~8.6)	8.5 (3.6~10.1)	11.0 (3.0~11.5)	13.5 (3.5~17.5)
	COP	W/W	3.74	3.76	4.01	3.83	3.71
Indoor air flow (Hi/Mi/Lo)		m^3/h	620/520/330	660/540/300	1247/1118/992	1700/1530/1300	1700/1530/1300
Indoor sound pressure level (Hi/Mi/Lo/Silent)		dB(A)	42/38.5/31.5/25.5	44/41/31.5/25	45/42.5/37/27.5	50.5/48/46/40	51/48/46/40
Indoor sound power level (Hi)		dB(A)	55	59	59	63	63
Outdoor sound pressure level (Hi)		dB(A)	57	58	60	62	63
Outdoor sound power level (Hi)		dB(A)	62	65	68	70	70
Dimension (WxDxH) (body)		mm	570x570x245	570x570x245	830x830x205	830x830x245	830x830x245
Packing (WxDxH) (body)		mm	715x640x295	715x640x295	910x910x250	910x910x290	910x910x290
Dimension (WxDxH) (panel)		mm	620x620x50	620x620x50	950x950x55	950x950x55	950x950x55
Packing (WxDxH) (panel)		mm	715x700x115	715x700x115	1035x1035x90	1035x1035x90	1035x1035x90
Net / Gross weight (body)		kg	16.1 / 18.8	16.2 / 19	21.6 / 25.4	24.6 / 28.6	27.2 / 31.2
Net / Gross weight		kg	2.7 / 4.3	2.7 / 4.3	6 / 9	6 / 9	6 / 9
Drainage water pipe diameter		mm	OD Ø 25mm				
Liquid / Gas side Refrigerant piping		mm	6.35mm(1/4in) / 9.52mm(3/8in)	6.35mm(1/4in) / 12.7mm(1/2in)	9.52mm(3/8in) / 15.9mm(5/8in)	9.52mm(3/8in) / 15.9mm(5/8in)	9.52mm(3/8in) / 15.9mm(5/8in)
Controller			infrared remote control				
Operation temperature			16~30				
Room temperature in Cooling		°C	16~32 / 0~30	16~32 / 0~30	16~32	16~32	16~32
Room temperature in Heating		°C	-15~50 / -20~24	-15~50 / -20~24	0-30	0-30	0-30
INTERNAL UNIT CODE			**2CP0042F**	**2CP0043F**	**2CP0044F**	**2CP0045F**	**2CP0046F**
EXTERNAL UNIT CODE			**2CP004BF**	**2CP004CF**	**2CP004DF**	**2CP004EF**	**2CP004FF**
GRILLE CODE			**2CP005AF**	**2CP005AF**	**2CP005BF**	**2CP005BF**	**2CP005BF**
WIRED REMOTE CONTROL CODE			**2CP00430**				

NOTE: The above design and specifications are subject to change without prior notice for product improvement.
(*) Values obtained in accordance with standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and with European Regulations (EU) No. 626/2011 and No. 206/2012.

MODEL			36T	48	48T	55T
Cooling	Pdesignc	kW	10.5	14.0	14.0	15.3
	SEER	W/W	6.4	6.1	6.1	6.1
	Energy Efficiency Class		A	A	A	A
Heating (Average)	Pdesignh	kW	8.2	11.2	11.2	11.8
	SCOP	W/W	4.0	4.0	4.0	4.0
	Seasonal energy efficiency *	ηs (%)	157	157	157	157
	Energy Efficiency Class		A	A	A	A
	Tbiv	°C	-7	-7	-7	-7
Heating (Warmer)	Pdesignh	kW	10.1	11.1	11.1	11.5
	SCOP	W/W	5.1	5.1	5.1	4.9
	Energy Efficiency Class		A	A	A	A
	Tbiv	°C	2			
Tol		°C	-15			
Power supply - Indoor		V, Hz, Ph	220-240V, 1Ph, 50Hz			
Power supply - Outdoor		V, Hz, Ph	380-415V, 3Ph, 50Hz	220-240V, 1Ph, 50Hz	380-415V, 3Ph, 50Hz	
Cooling	Capacity	Btu/h	34154 (9200~39000)	40000 (12000~54000)	40000 (12000~54000)	52000 (14000~55000)
	Capacity	kW	10.01 (2.70~11.43)	11.72 (3.52~15.83)	11.72 (3.52~15.83)	15.24 (4.10~16.12)
	Input	W	3044 (890~4150)	3600 (810~5700)	3620 (810~6350)	5700 (1000~6250)
	Current	A	6.5 (1.4~6.5)	15.9 (5.8~27.7)	5.6 (1.8~10.3)	8.8 (2.1~10.7)
	EER	W/W	3.29	3.26	3.24	2.67
Heating	Capacity	Btu/h	38000 (9500~43200)	48000 (14000~58000)	48000 (14000~59000)	62000 (15000~65000)
	Capacity	kW	11.14(2.78~12.66)	14.07 (4.20~17)	14.07 (4.10~17.29)	18.17 (4.40~19.05)
	Input	W	3000 (780~4000)	3750 (910~5800)	3750 (910~5900)	5700 (1020~6350)
	Current	A	5.0 (1.3~6.4)	16.5 (6.6~25.3)	5.7 (1.9~9.6)	8.8 (2.1~10.8)
	COP	W/W	3.71	3.75	3.75	3.19
Indoor air flow (Hi/Mi/Lo)		m^3/h	1700/1530/1300	1900/1750/1600	1900/1750/1600	2000/1850/1650
Indoor sound pressure level (Hi/Mi/Lo/Silent)		dB(A)	51/49/46/39	53/50.5/45/39	51.5/49.0/46.5/38.5	53/50.5/45.5/40
Indoor sound power level (Hi)		dB(A)	63	66	66	66
Outdoor sound pressure level (Hi)		dB(A)	63	64	64.0	65
Outdoor sound power level (Hi)		dB(A)	70	73	73	75
Dimension (WxDxH) body)		mm	830x830x245	830x830x287	830x830x287	830x830x287
Packing (WxDxH) (body)		mm	910x910x290	910x910x330	910x910x330	910x910x330
Dimension (WxDxH)(panel)		mm	950x950x55	950x950x55	950x950x55	950x950x55
Packing (WxDxH) (panel)		mm	1035x1035x90	1035x1035x90	1035x1035x90	1035x1035x90
Net / Gross weight (body)		kg	27.2 / 31.2	29.3 / 33.5	29.3 / 33.5	29.3 / 33.5
Net / Gross weight		kg	6 / 9			
Drainage water pipe diameter		mm	OD Ø 25mm			
Liquid / Gas side refrigerant piping		mm	9.52mm (3/8in) / 15.9mm (5/8in)	9.52mm (3/8in) / 15.9mm (5/8in)	9.52mm (3/8in) / 15.9mm (5/8in)	9.52mm (3/8in) / 15.9mm (5/8in)
Controller			infrared remote control			
Operation temperature			16~30			
Room temperature in Cooling		°C	16~32			
Room temperature in Heating		°C	0-30			
INTERNAL UNIT CODE			**2CP0046F**	**2CP0048F**	**2CP0048F**	**2CP0049F**
EXTERNAL UNIT CODE			**2CP004GF**	**2CP004IF**	**2CP004JF**	**2CP004KF**
GRILLE CODE			**2CP005BF**	**2CP005BF**	**2CP005BF**	**2CP005BF**
WIRED REMOTE CONTROL CODE			**2CP00430**			

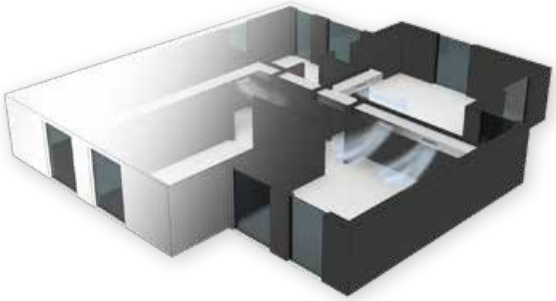
NOTE: The above design and specifications are subject to change without prior notice for product improvement.
(*) Values obtained in accordance with standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and with European Regulations (EU) No. 626/2011 and No. 206/2012.

GIADA-C DUCT

MEDIUM STATIC PRESSURE DUCTED AIR CONDITIONER





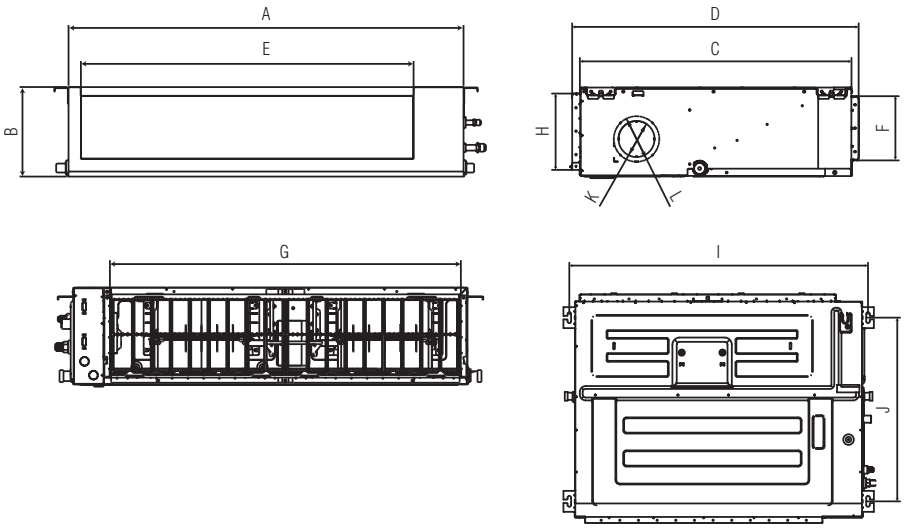


> GENERAL CHARACTERISTICS:

Perfect solution for room air conditioning using air distribution through a duct network

- Ducted Indoor unit with small dimensions (only 200mm high for mod. 12, 245mm high for mod. 18-48, and 300mm high for mod. 55T). Ideal for installation in false ceilings with low ceiling heights
- Golden Fin protection in coil
- DC Inverter fan: high efficiency and reduced sound level
- Static pressure available up to 160 Pa (depending on model)
- Automatic static pressure adjustment available
- Condensate drainage pump available as an accessory
- Vertical installation possible
- Maximum refrigerant piping lengths: 25-30m for models up to 18, 50m for models 24 and 30, and 75m for models 36-50
- Low noise level
- Possibility of outside air supply
- Flexible installation: air intake direction can be changed from rear side to lower side
- Standard wired remote control with large display for complete control of the unit





MODEL		Outline dimensions				Air outlet opening size		Air return opening size		Size of mounted lug		Fresh air intake opening size	
		A	B	C	D	E	F	G	H	I	J	K	L
9-12	mm	700	200	450	506	537	152	599	186	741	360	-	-
18	mm	700	245	750	795	527	178	592	212	740	640	100	126
24-30	mm	1000	245	750	795	827	178	892	212	1040	640	100	126
36-48 / 36T-48T	mm	1200	245	750	795	1027	178	1092	212	1240	640	100	126
55T	mm	1200	300	750	795	1027	233	1092	267	1240	640	125	160

MODEL			12	18	24	30	36
Cooling	Pdesignc	kW	3.5	5.3	7.1	8.8	10.5
	SEER	W/W	6.5	6.5	6.6	6.6	6.3
	Energy Efficiency Class		A	A	A	A	A
Heating (Average)	Pdesignh	kW	2.7	4.3	5.6	8.0	8.4
	SCOP	W/W	4.1	4.1	4.2	4.2	4.1
	Seasonal energy efficiency *	ηs (%)	161	161	165	165	161
	Energy Efficiency Class		A	A	A	A	A
	Tbiv	°C	-7	-7	-7	-7	-7
Heating (Warmer)	Pdesignh	kW	3.4	5.2	6.5	8.2	10
	SCOP	W/W	5.1	5.1	5.4	5.5	5.1
	Energy Efficiency Class		A	A	A	A	A
	Tbiv	°C	2	2	2	2	2
Tol		°C	-15	-15	-15	-15	-15
Power supply - Indoor		V, Hz, Ph	220-240V, 1Ph, 50Hz				
Power supply - Outdoor		V, Hz, Ph	220-240V, 1Ph, 50Hz				
Cooling	Capacity	Btu/h	12000 (1800~13334)	18000 (4500~21000)	24000 (11000~27000)	29400 (7600~34000)	33440 (9400~40000)
	Capacity	kW	3.52 (0.53~3.91)	5.28 (1.32~6.16)	7.03 (3.23~7.92)	8.62 (2.23~9.97)	9.80 (2.75~11.73)
	Input	W	1090 (155~1465)	1590 (360~2130)	2170 (750~2860)	2660 (190~3450)	3030 (900~4300)
	Current	A	4.82 (1.3~6.47)	7.1 (1.6~9.4)	9.6 (4.2~12.6)	11.8 (2.0~15)	13.6 (4.2~19)
	EER	W/W	3.23	3.32	3.24	3.24	3.23
Heating	Capacity	Btu/h	11500 (3400~15241)	20500 (5100~21500)	27200 (9500~29200)	32000 (9200~34100)	35000 (9500~43000)
	Capacity	kW	3.37 (1.00~4.47)	6.01 (1.50~6.31)	8.0 (2.79~8.56)	9.38 (2.70~10)	10.3 (2.78~12.61)
	Input	W	900 (302~1423)	1615 (500~1850)	2000 (640~2500)	2400 (430~2550)	2750 (800~3950)
	Current	A	3.98 (1.48~6.29)	7.2 (2.2~8.1)	9 (3.8~11)	10.6 (3.0~11.5)	12.2 (3.5~17.5)
	COP	W/W	3.74	3.72	3.99	3.91	3.73
Indoor air flow (Hi/Mi/Lo)		m^3/h	660/570/470	900/780/650	1200/1000/700	1500/1200/900	1700/1400/1100
ESP	Rated	Pa	25	25	25	37	37
	Range	Pa	0-100	0-160	0-160	0-160	0-160
Indoor sound pressure level (Hi/Mi/Lo/Silent)		dB(A)	35/33/31/26	36.5/34/31/25	33.5/32.5/31/27.5	39/37/35/30	38/36/33/29
Indoor sound power level (Hi)		dB(A)	52	53	56	60	62
Outdoor sound pressure level (Hi)		dB(A)	55.5	59	60	60	65
Outdoor sound power level (Hi)		dB(A)	62	62	69	70	70
Dimension (WxDxH) (IU)		mm	700x450x200	700x750x245	1000x750x245	1000x750x245	1200x750x245
Packing (WxDxH) (IU)		mm	860x540x285	925x850x298	1225x860x304	1225x860x304	1425x860x304
Net / Gross weight (UI)		kg	16.6 / 19.8	24.4 / 29	31.8 / 37.2	32.7 / 38.3	38.4 / 44.4
Drainage water pipe diameter		mm	OD Ø 25mm				
Liquid side / Gas side refrigerant piping		mm	6.35mm (1/4in) / 9.52mm (3/8in)	6.35 (1/4in) / 12.7 (1/2in)		9.52mm (3/8in) / 15.9mm (5/8in)	
Controller			wired remote control				
Operation temperature		°C	16~30	16~30	16~30	16~30	16~30
Room temperature in Cooling		°C	16~32	16~32	16~32	16~32	16~32
Room temperature in Heating		°C	0-30	0-30	0-30	0-30	0-30
INTERNAL UNIT CODE			**2CP004SF**	**2CP004TF**	**2CP004UF**	**2CP004VF**	**2CP004WF**
EXTERNAL UNIT CODE			**2CP004BF**	**2CP004CF**	**2CP004DF**	**2CP004EF**	**2CP004FF**

CONDENSATE DRAIN PUMP - GIADA-C DUCT 12	**2CP00440**
CONDENSATE DRAIN PUMP - GIADA-C DUCT 18-24-30-36-42-48	**2CP00450**
CONDENSATE DRAIN PUMP - GIADA-C DUCT 55	**2CP00460**

NOTE: The above design and specifications are subject to change without prior notice for product improvement.
(*) Values obtained in accordance with standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and with European Regulations (EU) No. 626/2011 and No. 206/2012.

MODEL			36T	42	48	48T	55T
Cooling	Pdesignc	kW	10.6	12.1	14.0	14.0	15.3
	SEER	W/W	6.1	6.1	6.1	6.1	6.1
	Energy Efficiency Class		A	A	A	A	A
Heating (Average)	Pdesignh	kW	8.8	9.5	11.5	11.5	12.5
	SCOP	W/W	4.0	4.1	4.0	4.0	4.0
	Seasonal energy efficiency *	ηs (%)	157	161	157	157	157
	Energy Efficiency Class		A	A	A	A	A
	Tbiv	°C	-7	-7	-7	-7	-7
Heating (Warmer)	Pdesignh	kW	10	10.2	11.5	11.2	12.8
	SCOP	W/W	5.1	5.1	5.1	5.1	5.1
	Energy Efficiency Class		A	A	A	A	A
	Tbiv	°C	2	2	2	2	2
Tol		°C	-15	-15	-15	-15	-15
Power supply - Indoor		V, Hz, Ph	220-240V, 1Ph, 50Hz				
Power supply - Outdoor		V, Hz, Ph	380-415V, 3Ph, 50Hz	220-240V, 1Ph, 50Hz		380-415V, 3Ph, 50Hz	
Cooling	Capacity	Btu/h	31400 (9300~40000)	36300 (10000~42000)	42300 (12000~51000)	42300 (12000~54000)	52000 (14000~59000)
	Capacity	kW	9.20 (2.726~11.73)	10.64 (2.93~12.31)	12.4 (3.52~14.95)	12.4 (3.52~15.83)	15.24 (4.10~17.29)
	Input	W	2830 (890~4200)	3290 (680~4500)	3830 (810~6150)	3830 (810~6450)	5250 (1030~6650)
	Current	A	4.4 (1.4~6.7)	14.6 (3.1~19.8)	16.9 (4~26.7)	6.0 (1.8~10.5)	8.1 (3.1~11.5)
	EER	W/W	3.25	3.23	3.24	3.24	2.90
Heating	Capacity	Btu/h	34500 (9500~43800)	46000 (11500~48000)	51600 (14000~59000)	52000 (14000~60000)	60000 (15000~70000)
	Capacity	kW	10.1 (2.78~12.84)	13.48 (3.37~14.07)	15.12 (4.11~17.30)	15.24 (4.11~17.59)	17.58 (4.40~20.52)
	Input	W	2710 (780~4000)	3550 (750~4100)	4060 (950~5700)	4100 (950~5800)	4740 (950~6600)
	Current	A	4.3 (1.3~6.4)	16.0 (3.4~18.5)	17.6 (4.5~25)	7.1 (2~9)	7.4 (2~11.5)
	COP	W/W	3.75	3.80	3.72	3.72	3.71
Indoor air flow (Hi/Mi/Lo)		m^3/h	1700/1400/1100	2000/1700/1300	2000/1700/1300	2000/1700/1300	2200/1900/1500
ESP	Rated	Pa	37	50	50	50	50
	Range	Pa	0-160	0-160	0-160	0-160	0-160
Indoor sound pressure level (Hi/Mi/Lo/Silent)		dB(A)	39/37/34/29	39/37/35.5/33	46/44/42/36	43.5/41.5/39.5/36	44.5/43/41.5/38
Indoor sound power level (Hi)		dB(A)	62	62	64	65	66
Outdoor sound pressure level (Hi)		dB(A)	65	63.5	64.5	64.5	64
Outdoor sound power level (Hi)		dB(A)	70	72	74	73	75
Dimension (WxDxH) (IU)		mm	1200x750x245	1200x750x245	1200x750x245	1200x750x245	1200x750x300
Packing (WxDxH) (IU)		mm	1425x860x304	1425x860x304	1425x860x304	1425x860x304	1425x860x354
Net / Gross weight (UI)		kg	38.4 / 44.4	40.6 / 46.1	40.4 / 46.8	40.4 / 46.8	42.9 / 49.1
Drainage water pipe diameter		mm	OD Ø 25mm				
Liquid side / Gas side refrigerant piping		mm	9.52mm (3/8in) / 15.9mm (5/8in)				
Controller			wired remote control				
Operation temperature		°C	16~30	16~30	16~30	16~30	16~30
Room temperature in Cooling		°C	16~32	16~32	16~32	16~32	16~32
Room temperature in Heating		°C	0-30	0-30	0-30	0-30	0-30
INTERNAL UNIT CODE			**2CP004WF**	**2CP004XF**	**2CP004YF**	**2CP004YF**	**2CP004ZF**
EXTERNAL UNIT CODE			**2CP004GF**	**2CP004HF**	**2CP004IF**	**2CP004JF**	**2CP004KF**

CONDENSATE DRAIN PUMP - GIADA-C DUCT 12	**2CP00440**
CONDENSATE DRAIN PUMP - GIADA-C DUCT 18-24-30-36-42-48	**2CP00450**
CONDENSATE DRAIN PUMP - GIADA-C DUCT 55	**2CP00460**

NOTE: The above design and specifications are subject to change without prior notice for product improvement.
(*) Values obtained in accordance with standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and with European Regulations (EU) No. 626/2011 and No. 206/2012.

GIADA-C FLOOR&CEILING

FLOOR / CEILING
INDOOR UNIT





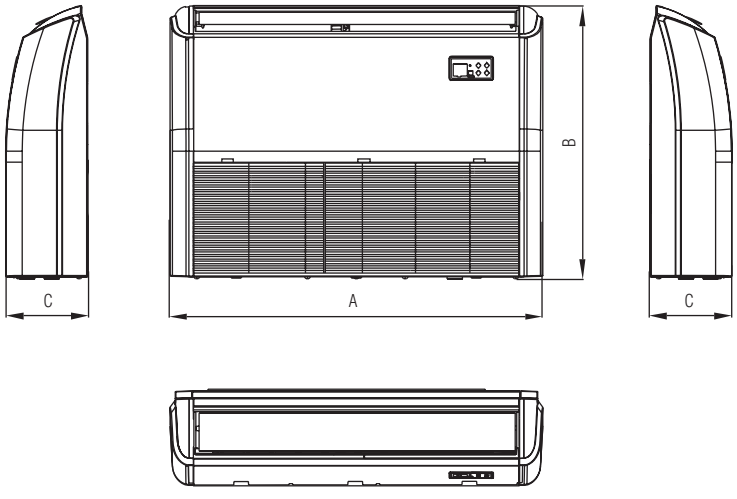


> GENERAL CHARACTERISTICS:

Perfect solution for room air conditioning using the floor/ceiling, allowing air distribution from the ceiling or from the floor according to the needs of each room

- Horizontal ceiling or vertical floor installation possible
- Golden Fin protection in coil
- DC Inverter fan, to obtein high efficiency and reduced sound level
- Compact unit with a thickness of 235 mm only
- Infrared remote control as standard with a large display for complete control of the unit (optional wired remote control)
- WIFI connection available (accessory). Possibility of controlling the unit via App





MODEL		A	B	C
18-24	mm	1068	675	235
36-36T-48-48T-55T	mm	1650	675	235

MODEL			18	24	36	36T
Cooling	Pdesignc	kW	5.4	7.1	10.5	10.5
	SEER	W/W	6.2	6.3	6.4	6.2
	Energy Efficiency Class		A	A	A	A
Heating (Average)	Pdesignh	kW	4.0	5.9	8.6	8.6
	SCOP	W/W	4.0	4.1	4.1	4.0
	Seasonal energy efficiency *	ηs (%)	165	161	161	157
	Energy Efficiency Class		A	A	A	A
	Tbiv	°C	-7	-7	-7	-7
Heating (Warmer)	Pdesignh	kW	5.1	5.7	10.0	10.2
	SCOP	W/W	5.1	5.4	5.1	5.1
	Energy Efficiency Class		A	A	A	A
	Tbiv	°C	2	2	2	2
Tol		°C	-15	-15	-15	-15
Power supply - Indoor		V, Hz, Ph	220-240V, 1Ph, 50Hz			
Power supply - Outdoor		V, Hz, Ph	220-240V, 1Ph, 50Hz			380-415V, 3Ph, 50Hz
Cooling	Capacity	Btu/h	18000 (9250~20000)	23200 (10990~27100)	34460 (9300~39000)	34460 (9300~40200)
	Capacity	kW	5.28 (2.71~5.86)	6.80 (3.22~7.95)	10.1 (2.73~11.43)	10.1 (2.73~11.78)
	Input	W	1450 (670~2027)	2060 (750~2730)	3080 (900~4250)	3100 (890~4300)
	Current	A	6.0 (3.2~9)	9.04 (3.9~12.1)	13.6 (4.2~19.0)	6.30 (1.4~6.80)
	EER	W/W	3.64	3.30	3.28	3.26
Heating	Capacity	Btu/h	19000 (8250~21500)	26000 (9280~29000)	40000 (9600~43600)	39960 (9500~43600)
	Capacity	kW	5.57 (2.42~6.30)	7.62 (2.72~8.50)	11.72 (2.78~12.78)	11.71 (2.81~12.78)
	Input	W	1500 (540~1640)	1980 (650~2940)	3160 (800~3950)	3140 (780~3950)
	Current	A	6.6 (2.7~7.3)	8.7 (3.5~10.60)	15.0 (3.5~17.5)	5.5 (1.3~6.20)
	COP	W/W	3.71	3.85	3.71	3.73
Indoor air flow (Hi/Mi/Lo)		m^3/h	958/839/723	1192/1023/853	1955/1728/1504	1955/1728/1504
Indoor sound pressure level (Hi/Mi/Lo/Silent)		dB(A)	44/41/37/24	49.5/45.5/36.5/22.5	51.5/48/45/39	51/47.5/45/37
Indoor sound power level (Hi)		dB(A)	57	63	64	64
Outdoor sound pressure level (Hi)		dB(A)	59	60.5	63	63
Outdoor sound power level (Hi)		dB(A)	65	69	70	68
Dimension (WxDxH)		mm	1068x675x235	1068x675x235	1650x675x235	1650x675x235
Packing (WxDxH)		mm	1145x755x318	1145x755x318	1725x755x318	1725x755x318
Net / Gross weight		kg	28/33.3	28/33.1	41.5/48	41.5/48
Drainage water pipe diameter		mm	OD Ø 25mm			
Liquid side / Gas side refrigerant piping		mm	6.35mm (1/4in) / 12.7mm (1/2in)	9.52mm (3/8in) / 15.9mm (5/8in)		
Controller			infrared remote control			
Operation temperature		°C	16~30			
Room temperature in Cooling		°C	16~32			
Room temperature in Heating		°C	0~30			
INTERNAL UNIT CODE			**2CP004LF**	**2CP004MF**	**2CP004NF**	**2CP004NF**
EXTERNAL UNIT CODE			**2CP004CF**	**2CP004DF**	**2CP004FF**	**2CP004GF**
WIRED CONTROLLER			**2CP00430**			

NOTE: The above design and specifications are subject to change without prior notice for product improvement.
(*) Values obtained in accordance with standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and with European Regulations (EU) No. 626/2011 and No. 206/2012.

MODEL			48	48T	55T
Cooling	Pdesignc	kW	14.0	14.0	15.3
	SEER	W/W	6.1	6.1	6.1
	Energy Efficiency Class				
Heating (Average)	Pdesignh	kW	11.2	11.2	11.8
	SCOP	W/W	4.0	4.0	4.0
	Seasonal energy efficiency *	ηs (%)	157	157	157
	Energy Efficiency Class				
	Tbiv	°C	-7	-7	-7
Heating (Warmer)	Pdesignh	kW	11.5	11.5	11.5
	SCOP	W/W	5.1	5.1	5.1
	Energy Efficiency Class				
	Tbiv	°C	2	2	2
Tol		°C	-15	-15	-15
Power supply - Indoor		V, Hz, Ph	220-240V, 1Ph, 50Hz		
Power supply - Outdoor		V, Hz, Ph	220-240V, 1Ph, 50Hz	380-415V, 3Ph, 50Hz	
Cooling	Capacity	Btu/h	41600 (12000~54000)	41300 (12000~52000)	52000 (14000~55000)
	Capacity	kW	12.2 (3.52~15.83)	12.1 (3.52~15.24)	15.24 (4.10~16.12)
	Input	W	3770 (810~6350)	3730 (910~6200)	5900 (1100~6500)
	Current	A	16.5 (5.8~27.8)	5.7 (2.1~9.6)	8.9 (3.1~10.8)
	EER	W/W	3.23	3.25	2.58
Heating	Capacity	Btu/h	44000 (14000~59000)	44000 (14000~60000)	62000 (15000~66000)
	Capacity	kW	12.9 (4.10~17.30)	12.9 (4.10~17.59)	18.17 (4.40~19.35)
	Input	W	3470 (910~6050)	3470 (950~5950)	5950 (1120~6350)
	Current	A	15.3 (6.6~26.5)	5.3 (2.2~9.2)	9.1 (3.1~10.5)
	COP	W/W	3.72	3.72	3.05
Indoor air flow (Hi/Mi/Lo)		m^3/h	2100/1850/1600	2100/1850/1600	2200/1950/1650
Indoor sound pressure level (Hi/Mi/Lo/Silent)		dB(A)	53/49/42.5/36	51/49/43/35	53/50/42/36
Indoor sound power level (Hi)		dB(A)	67	68	70
Outdoor sound pressure level (Hi)		dB(A)	64	64	65
Outdoor sound power level (Hi)		dB(A)	74	73	75
Dimension (WxDxH)		mm	1650x675x235	1650x675x235	1650x675x235
Packing (WxDxH)		mm	1725x755x318	1725x755x318	1725x755x318
Net / Gross weight		kg	41.7/48.5	41.7/48.5	42.3/49.2
Drainage water pipe diameter		mm	OD Ø 25mm		
Liquid side / Gas side refrigerant piping		mm	9.52mm (3/8in) / 15.9mm (5/8in)		
Controller			infrared remote control		
Operation temperature		°C	16~30		
Room temperature in Cooling		°C	16~32		
Room temperature in Heating		°C	0~30		
INTERNAL UNIT CODE			**2CP004PF**	**2CP004PF**	**2CP004QF**
EXTERNAL UNIT CODE			**2CP004IF**	**2CP004JF**	**2CP004KF**
WIRED CONTROLLER			**2CP00430**		

NOTE: The above design and specifications are subject to change without prior notice for product improvement.
(*) Values obtained in accordance with standards EN 14511:2022 and EN 14825:2022. The products comply with the European ErP Directive (Directive 2009/125/EC) and with European Regulations (EU) No. 626/2011 and No. 206/2012.

GIADA-C

UNIVERSAL
EXTERNAL UNIT



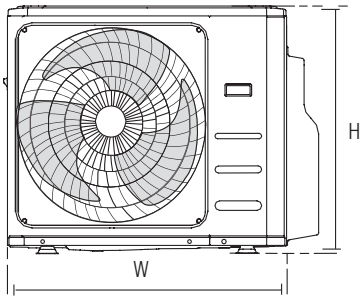
> GENERAL CHARACTERISTICS:

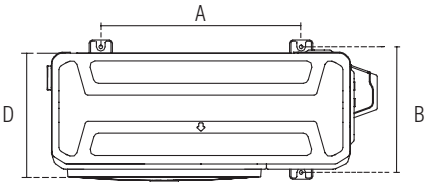
- The units all incorporate a Full DC Inverter compressor, which together with the special design of the fan and the latest generation inverter control allows the unit to achieve high performance and low noise levels
- Refrigerant flow control using an electronic expansion valve
- Single-phase power supply (models 12-18-24-30-36-42-48) and three-phase (models 36T-48T-55T)
- The units also have Golden Fin coils (anti-corrosion treatment) which extends the useful life of the equipment
- Furthermore It has WIFI communication, which allows optional control of the equipment through a smartphone or tablet via the own APP
- The outdoor unit has been designed with a single fan in all models, resulting in a unit of reduced dimensions, with a height of less than 1m, which facilitates its architectural integration into the building
- Maximum piping length: 25-30m for models up to 18, 50m for models 24 and 30, and 75m for models 36-50

R32 GAS
R32

MODEL		12	18	24	30	36	36T	42	48	48T	55T
Power supply	V / Hz / Ph	220-240V / 1Ph / 50Hz					380-415V / 3Ph / 50Hz	220-240V / 1Ph / 50Hz		380-415V / 3Ph / 50Hz	
Max input consumption	W	1850	2950	3700	4500	5000	5000	5000	7300	7300	7500
Max current	A	9	13.5	19	20	22.5	10	22.5	32	14	14
Compressor type		Rotary									
Outdoor air flow (Hi)		2200	2100	3500	3800	4000	4000	4000	5600	5600	5600
Dimension (W*D*H)	mm	765 x 303 x 555	805 x 330 x 554	890 x 342 x 673	946 x 410 x 810	946 x 410 x 810	946 x 410 x 810	946 x 410 x 810	980 x 415 x 975	980 x 415 x 975	980 x 415 x 975
Packing (W*D*H)	mm	887 x 337 x 610	915 x 370 x 615	995 x 398 x 740	1090 x 500 x 885	1090 x 500 x 885	1090 x 500 x 885	1090 x 500 x 885	1145 x 500 x 1080	1145 x 500 x 1080	1145 x 500 x 1080
Net / Gross weight	Kg	26.6 / 29	32.5 / 35.2	41.9 / 45.2	51 / 55.7	66.9 / 71.5	80.5 / 85	71.0 / 75.0	82.5 / 97	90 / 105	92 / 107
Refrigerant type		R32	R32	R32	R32	R32	R32	R32	R32	R32	R32
Refrigerant GWP		675	675	675	675	675	675	675	675	675	675
Refrigerant	Kg	0.71	1.15	1.4	1.8	2.4	2.4	2.8	2.9	2.9	3.2
Liquid side / Gas side	mm (inch)	6.35 (1/4) / 9.52 (3/8)	6.35 (1/4) / 12.7 (1/2)	9.52 (3/8) / 15.9 (5/8)							
Max refrigerant pipe length	m	25	30	50	50	75	75	75	75	75	75
Max difference in level	m	10	20	25	25	30	30	30	30	30	30
Outdoor temp. in Cooling	°C	-15 ~ 50									
Outdoor temp. in Heating	°C	-20 ~ 24									
CODE		2CP004BF	2CP004CF	2CP004DF	2CP004EF	2CP004FF	2CP004GF	2CP004HF	2CP004IF	2CP004JF	2CP004KF

NOTE: The above design and specifications are subject to change without prior notice for product improvement.





MODEL		W	H	D	A	B
12	mm	765	555	303	452	286
18	mm	805	554	330	511	317
24	mm	890	673	342	663	348
30-36-36T- 42	mm	946	810	410	673	403
48-48T-55T	mm	980	975	415	616	397

WATER HEATERS: GAS, ELECTRIC & HP

EXTERNO

LOW NOx GAS WALL-MOUNTED WATER HEATER FOR OUTDOOR INSTALLATIONS WITHOUT FLUE GAS DUCTS



- **Type A3 instantaneous gas water heater** with front flue gas exhaust, for installations without flue gas exhaust ducts
- **LOW NOx** appliance pursuant to ErP directives. It can work both with methane or LPG (with specific conversion kit).
- Suitable for protected **outdoor installations**. It can operate at **temperatures as low as -20°C** (supplied as per standard with electric heating elements on the water circuit)
- Appliance applied **as per standard with remote control timer** (and relative connection cable), with large **interface display** and simple **control keys**, for easy and intuitive regulation
- Runs in **continuous modulation** with **double temperature sensor** control at water inlet and outlet. Models 22 and 26 are equipped with a power regulating valve at cold water inlet, to improve the stability of the produced domestic hot water.
- Suitable for operating coupled with a **thermal solar plant**

> USER FUNCTIONS:

- **ECO:** the dispensing temperature of the hot water and the power of the burner are reduced. Ideal for operation during hot weather seasons
- **CHILDREN PROTECTION:** When setting a very high setpoint, every time the water heater switches off, the supply temperature is brought to 48°C so that the following withdrawal is performed in complete safety

The conversion kit to LPG must be purchased with the following codes:

014041X0 | Kit for conversion to LPG for EXTERNO mod. 11

014042X0 | Kit for conversion to LPG for EXTERNO mod. 16

014043X0 | Kit for conversion to LPG for EXTERNO mod. 22
014044X0 | Kit for conversion to LPG for EXTERNO mod. 26

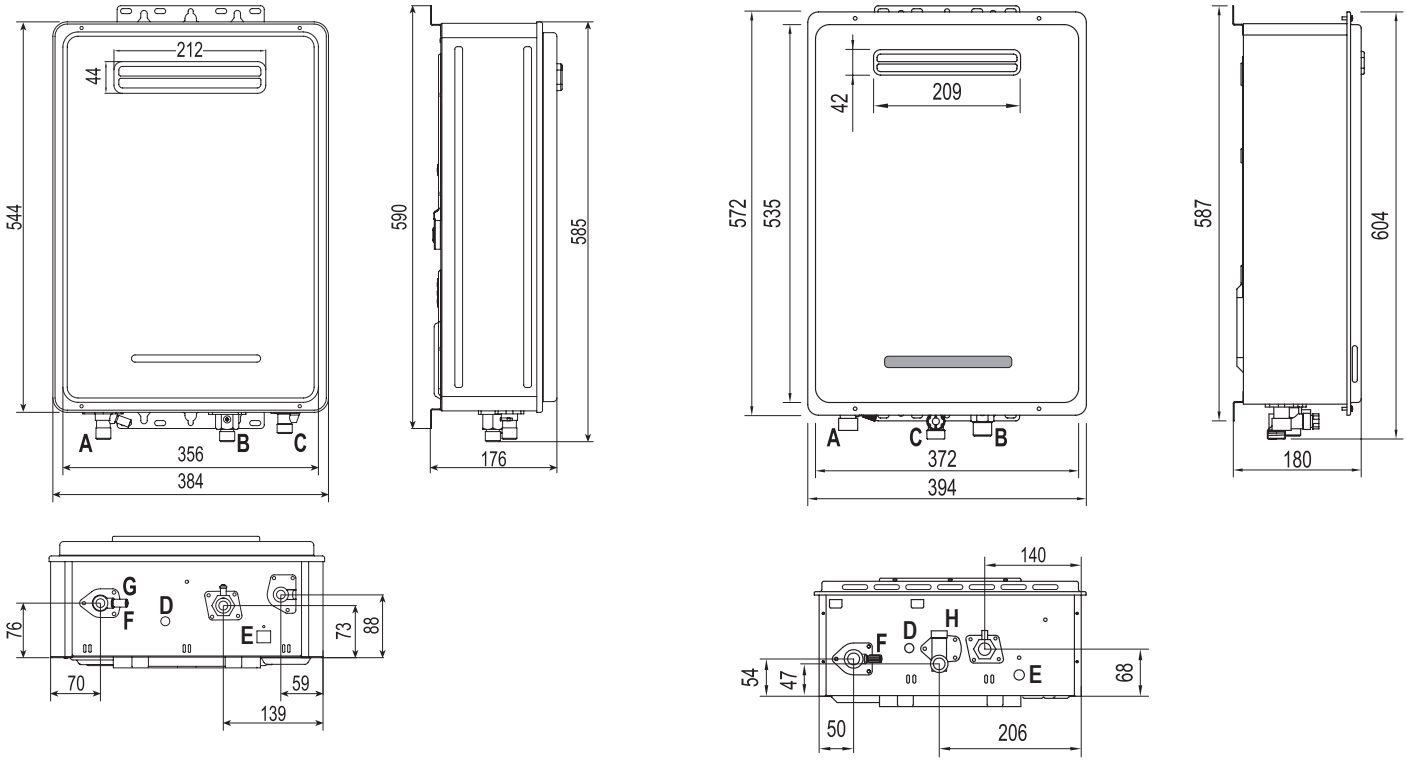








MODEL			11 NG	16 NG	22 NG	26 NG
ERP Class			M A	XL A	XL A	XL A
Nominal heat input	Max / Min	kW	22 / 8	32 / 9.5	44 / 8.5	52 / 9.5
Heat output	Max / Min	kW	19.8 / 7.6	29.6 / 8.8	38.3 / 7.6	45.2 / 8.6
NOx Class (according to EN 15502)			6	6	6	6
Maximum operating pressure	Max / Min	bar	10 / 0.2	10 / 0.2	10 / 0.2	10 / 0.2
Domestic hot water production	Δt 25°C Δt 30°C	l/min l/min	11 9.7	16 14.1	22 18.3	26 21.6
Domestic hot water temperature regulation	Min / Max	°C	65 / 35	65 / 35	65 / 35	65 / 35
Empty weight		Kg	15.1	15.5	19.3	19.3
Electric power supply		V/Hz	230 / 50	230 / 50	230 / 50	230 / 50
Electrical protection rating		IP	X5	X5	X5	X5
No. of pieces/pallets		**no.**	**28**	**28**	**28**	**28**
CODE			**0DW93IWA**	**0DW95IWA**	**0DW98IWA**	**0DW99IWA**



> KEY

- **A** Hot water outlet f ½'
- **B** Gas inlet f ½'
- **C** Cold water inlet f ½'
- **D** Remote control cable connector
- **E** Electric power supply
- **F** Safety valve discharge
- **G** Exhaust valve
- **H** Cold water inlet filter

REMOTE CONTROL PANEL



Display for:
Indication of setpoint temperature during standby
Fault codes indication

ECO mode active

DHW withdrawal active -H_2O flow indication

Burner on

Fan powered - switch-on phase

The EXTERNO water heater series is without onboard controls. The DI nt functions are performed by a remote control supplied as per standard, complete with connection cable.

Adjustment and setting keys:
DHW temperature regulation
Parameter setting

The interface display and the control keys are designed to make the co ase of failure and/or malfunctioning of the water heater, the indication on the display is accompanied by a buzzer.

ECO mode activation

ON/OFF key

PEGASO ECO

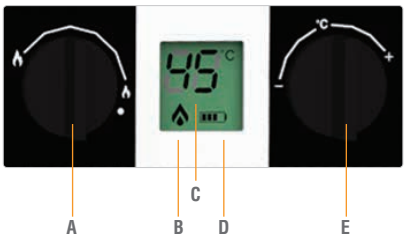
WALL-MOUNTED NATURAL DRAUGHT GAS WATER HEATER AND OPEN CHAMBER, LOW NOx TYPE



Open chamber, natural draught gas-fired water heater with modulating heat output with **LOW NOx flue gas emission - Class 6**

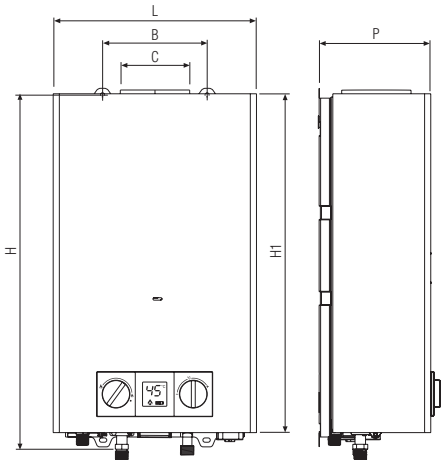
> STRONG POINTS:

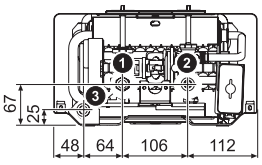
- Finned copper tube **heat exchanger**, externally finished with an anti-corrosion aluminium treatment
- **Modulating thermal flow** and fine regulation of the temperature of the hot water exiting
- Easy-to-read **display** with indicators on device operation and power battery charge. Adjustment of power and hot water temperature with pleasant, ergonomic **knobs**
- Battery power supply
- Item sold in Methane and LPG versions
- Can run on propane air (50% air - 50% propane) following conversion by Authorised Technical Service for a maximum total price of EUR 30 (plus VAT)
- Wide range of hot water **temperature control** and **heat output modulation**
- Compact **size** and low weight



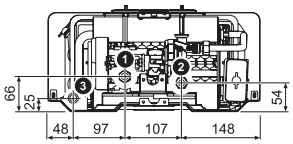
> DISPLAY LEGEND

A Heat output control
B Burner on
C Water temperature
D Battery charge level
E Temperature control - On / Off

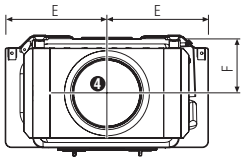




mod. 11



mod. 14



> PEGASO ECO LEGEND

1 Gas inlet Ø ½'
2 Domestic hot water inlet Ø ½'
3 Cold water outlet Ø ½'
4 Flue gas outlet: **mod. 11** Ø 110 mm / **mod. 14** Ø 130 mm



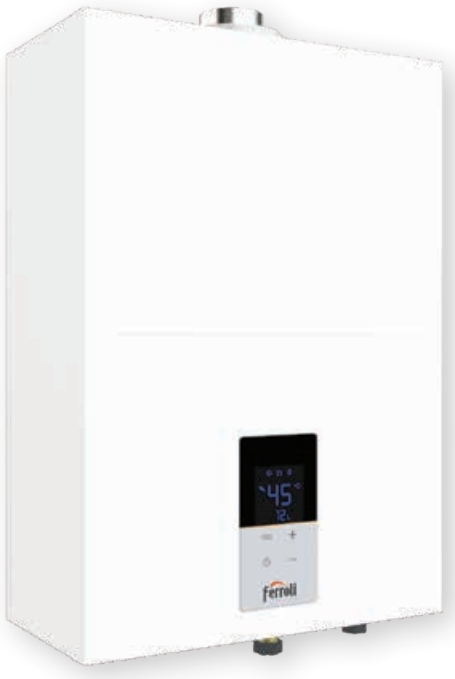


PEGASO ECO	L (mm)	B (mm)	C (mm)	P (mm)	E (mm)	F (mm)	H (mm)	H1 (mm)
11	330	170	110	180	165	91	550	575
14	400	220	130	187	200	93	650	678

MODEL			11	14
ERP Class	M		A	A
Nominal heat output (Pn)		kW	21.1	26.8
Useful heat output	Min / Max	kW	7.1 / 18.8	9.5 / 23.7
NOx class (in accordance with EN 15502)			6	6
Maximum working pressure		bar	10	10
DHW production	Δt 25°C Δt 30°C	l/min l/min	11.0 9.1	13.9 11.3
DHW temperature control	Min / Max	°C	40 / 65	40 / 65
Power supply			Battery	Battery
No. pieces/pallet		**No.**	**21**	**14**
CODE	**NATURAL GAS LPG**		**GCC1MKAA GCC1MLAA**	**GCC1PKAA GCC1PLAA**

KONA

LOW NOx GAS-FIRED WALL-MOUNTED WATER HEATER FORCED DRAUGHT AND SEALED CHAMBER



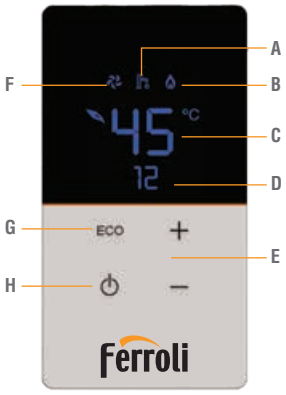
Gas-fired water heater with sealed chamber, modulating heat output and electronic control of combustion with **LOW NOx flue gas emission - Class 6**

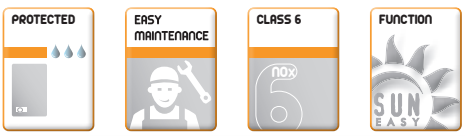
> STRONG POINTS:

- Touch control panel and large, easy-to-read display
- Electronic combustion control
- Wide range of heat output and water temperature modulation
- Available in Methane and LPG versions
- Can run on propane air (50% air - 50% propane) following conversion by Authorised Technical Service for a maximum total price of EUR 30 (plus VAT)
- Flue gas outlet and air inlet configurable with 60/100 mm coaxial pipe or double pipe (air/flue gas) 80 mm. Extensive range of accessories for both solutions
- Suitable for indoor and outdoor installation in a partially protected location (down to -15°C with installation of an optional antifreeze kit; protection of domestic water inlet and outlet pipes by installer)
- Designed to work in conjunction with solar panel systems
- ECO function (hot water temperature at 42°C and 20% heat output reduction)

> DISPLAY LEGEND

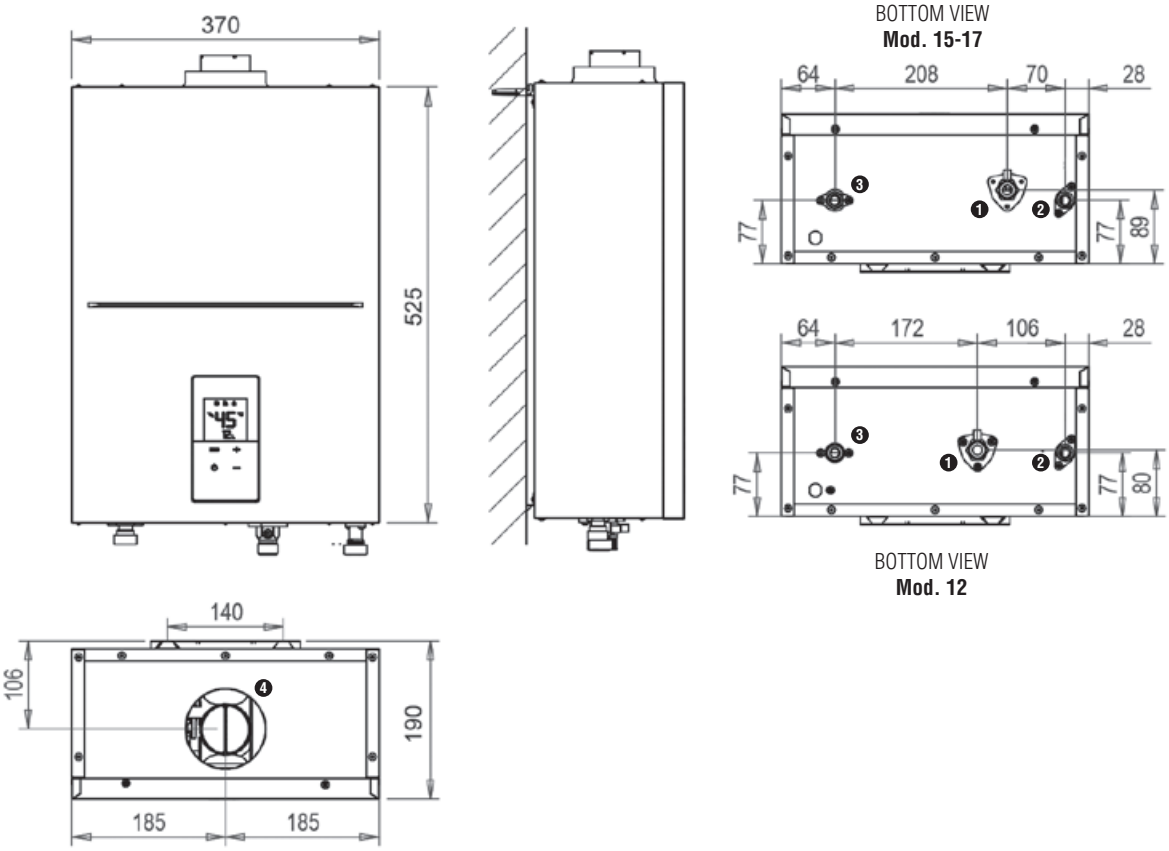
A Burner on
B Hot water demand
C Water temperature
D Water flow rate
E Edit parameters
F Fan on
G ECO function
H On / Off





KONA			12	15	17
ERP Class	XL		A	A	A
Nominal heat output	Max	kW	23	29.7	33
Heat output	Max / Min	kW	20.9/3.6	27/3.6	30/3.6
NOx class (in accordance with EN 15502)			6	6	6
Maximum working pressure		bar	10	10	10
Maximum DHW production	Δt 25°C Δt 30°C	l/min l/min	12 10	15.5 12.9	17 14.3
DHW temperature control	Min / Max	°C	40 / 65	40 / 65	40 / 65
Empty weight		Kg	13.7	14.5	14.5
Power supply		V/Hz	230 / 50	230 / 50	230 / 50
No. pieces/pallet		**No.**	**21**	**21**	**21**
CODE	**NATURAL GAS LPG**		**0DK96IAA 0DK96KAA**	**0DK95IAA 0DK95KAA**	**0DK97IAA 0DK97KAA**

KONA



> LEGEND

1 Gas supply Ø ½'
2 Hot water inlet Ø ½'
3 Cold water outlet Ø ½'
4 Flue gas outlet: Coaxial Ø 60/100 mm / Split Ø 80 mm

INITIAL FLUE GAS ACCESSORIES

	DESCRIPTION	CODE
	80/80 mm air/flue gas pipe splitter kit	010039X0
	Vertical connection kit for coaxial system ø 60/100 mm	010037X0
	Coaxial exhaust suction kit, ø 60/100 mm, (L = 1000 mm)	010040X0

	DESCRIPTION	CODE
	Coaxial pipe ø 60/100 mm with end cap and gasket, aluminium inner, plastic outer Length L = 1000 mm	1KWMA56A
	Male/female coaxial extension ø 60/100 mm includes gaskets, aluminium inner, plastic outer Length L = 1000 mm	1KWMA56U
	Coaxial elbow 90°, ø 60/100 mm, includes gaskets Pack 1 piece	1KWMA81W
	electric heater kit for auxiliary antifreeze (on +5°C / off +15°C)	013027X0

TITANO TWIN

COMPACT ELECTRIC WATER HEATER WITH DOUBLE TANK - WI-FI



Slim electric water heater with 30-100 litre double tank.
5-year warranty

- Storage distributed in **two tanks** to improve efficiency and comfort
- **Ultra-slim** shape to reduce overall dimensions and to facilitate installation even in tight spaces
- Design for **horizontal or vertical installations**
- Ultra efficient **BLUE FOREVER** electrical heating element and internal tank featuring a special surface treatment that almost entirely reduces limescale build-up for long-lasting and efficient operation.
- **SMART**' electronic control able to optimise consumption according to user requirements.
- Supplied as per standard with **Wi-Fi** module, it can be remote-controlled with the **''Egea Smart'' App**

> FUNCTIONS

- **ECO** activates the electronic control in SMART mode
- **LEGIONELLA CONTROL**
- **ANTIFROST** system with tripping threshold at 5°C
- **TROUBLESHOOTING**

> CONNECTIVITY

Thanks to the "**Egea Smart**" App, which can be downloaded to the smartphone, TITANO TWIN can be fully managed by modifying its parameters and operating modes.

Google Play App Store

Ferroli Egea Smart



> KEY

1 On / Off
2 Parameter increase
3 Parameter decrease
4 DHW temperature
5 Wi-Fi
6 ECO function

> VERSATILE

Designed for vertical or horizontal installation without jeopardising the integrity of the water heater or its efficiency. Horizontal installation exclusively with left side couplings.



INDOORS

TITANO TWIN		30	50	80	100
Load profile		S	M	M	M
ERP Class		B	B	B	B
Tank capacity	l	30	50	80	90
Electrical power	W	1800			
Heating time	15+25°C	35'	59'	1h 37'	2h 01'
Mixed water at 40°C (V40)	l	-	85	145	165
Height VE / Width HO	mm	679	991	1092	1194
Width VE / Height HO	mm	462	462	542	542
Depth (from wall)	mm	274	274	314	314
Empty weight	Kg	17.7	25.1	31.5	34.5
CODE		**GRZ52DKA**	**GRZ54DKA**	**GRZ56JKA**	**GRZ57JKA**

TITANO SMART BF

MID CAPACITY ELECTRIC WATER HEATERS
ENERGY SAVER



Electrical water heaters with extremely high efficiency storage, vertical and horizontal configuration with **50 to 150-litre capacity.**

> EQUIPPED WITH:

- **''SMART''** electronic control able to optimise consumption according to user requirements
- Control panel with **LED lights** for reading the operating temperatures and operating status and convenient **keys** for managing the water heater
- Ultra high performing **"Blue Forever"** electrical heating elements featuring a special surface treatment that almost entirely reduces limescale build-up on the element for optimal operation over time
- Magnesium anode tank protection
- **5-bolt** flange to guarantee sturdiness and easy periodic maintenance
- Safety valve calibrated to 8 bar
- Supplied with three-pole electric cable without plug

VERSIONS:
VE *- vertical,* ***HO*** *- horizontal*
CABLE / PLUG as option
Elements: 0.8 - 2 kW

For all the models some customized version might be available on request, subject to minimum order quantity, for this refer to your sales representative.



> KEY

1 Status signal LED:
Green LED: Electrically powered storage tank
Red LED: Storage tank in DHW production
Flashing green LED: Antilegionella
2 On /Off switch
3 Parameter decrease key
4 DHW temperature indicator LED
5 Parameter increase key
6 SMART mode activation key
7 SMART mode indicator LED (red)

BLUE FOREVER

MODEL		50 SVE BF	80 SVE BF	100 SVE BF	120 SVE BF	150 SVE BF	50 SHO BF	80 SHO BF	100 SHO BF	120 SHO BF	150 SHO BF
Load profile		M	M	M	L	L	M	M	M	L	L
ERP Class		B	B	B	C	C	B	B	B	C	C
Tank capacity	l	50	78	100	120	130	50	78	100	120	130
Electrical power	W	1500	1500	1500	1500	1500	1200	1200	1500	1500	1500
Heating time	20+55°C	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
Mixed water at 40°C (V40)	l	65	120	160	235	240	68	120	160	220	230
Height VE / Width HO	mm	555	755	995	1130	1175	555	755	995	1130	1175
Max diameter	mm	438	438	438	438	438	438	438	438	438	438
Empty weight	Kg	14	19	22	35	35	14	19	22	35	35

TITANO BF

MID CAPACITY
ELECTRIC WATER HEATER



- Temperature control by mechanical thermostat
- High-concentration magnesium anode to protect the tank
- **Five bolt flange** to ensure sturdiness and easy periodical maintenance
- Unbreakable thermometer in ABS
- On/off light
- Pressure relief valve set to 8 bars
- Manual outside **temperature adjustment** (vertical model)
- **"Blue Forever" heating** element. Its surface is treated through a special patented process, which permits drastical reduction of limestone deposits

BLUE FOREVER
THE SCALING ENEMY

The element is enameled with Bluesilicon, a unique patented treatment, offering extra qualities such as:
- Drastically reducing the limestone deposit, which substantially shortens the life span of the element
- Top efficiency of the element for a longer period
- Maintaining the high performance throughout the life span of the element
- Extended Ferroli warranty on the element

VERSIONS:
***VE** - vertical, **HO** - horizontal*
***CABLE / PLUG** as option*
***Elements:** 0.8 - 2 kW*

For all the models some customized version might be available on request, subject to minimum order quantity, for this refer to your sales representative.

LONG TERM TEST

Standard element



BLUE FOREVER element



FERROLI PATENT



BLUE FOREVER

VERTICAL EXECUTION			50 VE/RE	80 VE/RE	100 VE/RE	120 VE/RE	150 VE/RE
DHW tapping profile			M	L	L	L	L
ERP Class			C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35°C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45°C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20.5	25	28.5	29.5

HORIZONTAL EXECUTION			50 HO	80 HO	100 HO	120 HO	150 HO
DHW tapping profile			M	M	L	L	L
ERP Class			C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35°C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45°C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20.5	25	28.5	29.5

CALYPSO

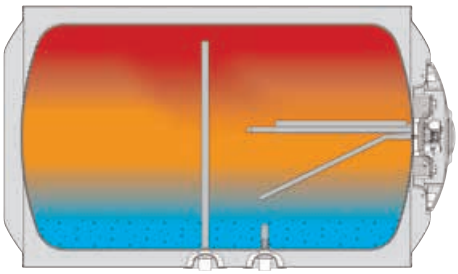
MID CAPACITY
ELECTRIC WATER HEATER



- **Five bolt flange** of wide diameter, to ensure sturdiness and easy periodical maintenance
- Various models with capacity from 50 to 150 litres, both vertical and horizontal
- Five bolts flange element
- Temperature control through mechanical thermostat with probe
- Magnesium anode to protect the tank
- Temperature level indicator
- On/off light indicator
- Pressure relief valve set to 8 bar
- Manual external **temperature adjustment** (vertical model)

VERSIONS:
***VE** - vertical, **HO** - horizontal*
***CABLE / PLUG** as option*
***Elements:** 0.8 - 4 kW - copper/stainless steel*

For all the models some customized version might be available on request, subject to minimum order quantity, for this refer to your sales representative.





HORIZONTAL
Recommended in confined spaces like false ceilings

VERTICAL
Maximum stratification. Withdrawal of hot water from the warmest point in the tank

VERTICAL EXECUTION			50 VE/RE	80 VE/RE	100 VE/RE	120 VE/RE	150 VE/RE
DHW tapping profile			M	L	L	L	L
ERP Class			C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35° C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45° C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20.5	25	28.5	29.5

HORIZONTAL EXECUTION			50 HO	80 HO	100 HO	120 HO	150 HO
DHW tapping profile			M	M	L	L	L
ERP Class			C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35° C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45° C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20.5	25	28.5	29.5

CALYPSO ECO

MID CAPACITY
ELECTRIC WATER HEATER



- The element is **screw-fixed** together with the magnesium anode, to the tank
- Various models with capacity from 50 to 150 litres, both vertical and horizontal
- Container internally enameled with Titanium Bluesilicon process
- Temperature level indicator
- On/off light indicator
- Pressure relief valve set to 8 bar

VERSIONS:
***VE** - vertical, **HO** - horizontal*
***CABLE / PLUG** as option*
***Elements:** 0.8 - 4 kW - copper/stainless steel*

For all the models some customized version might be available on request, subject to minimum order quantity, for this refer to your sales representative.

REGULATION

INTERNALThrough the internal knob, removing the plastic cover. It is however factory pre-set in order to get maximum possible efficiency (EU regulation 812/2013). A proper setting ensures a high water flow at mixed 40°C temperature. Factory adjustment depends on volume and execution of the heater. 60°C preset on VG 100÷150 and HO 80, 70°C on the others.







VERTICAL EXECUTION			50 VG	80 VG	100 VG	120 VG	150 VG
DHW tapping profile			M	L	L	L	L
ERP Class			C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35° C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45° C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20.5	25	28.5	29.5

HORIZONTAL EXECUTION			50 HO	80 HO	100 HO	120 HO	150 HO
DHW tapping profile			M	M	L	L	L
ERP Class			C	C	C	C	C
Capacity		litres	50	80	100	120	150
Power		W	1500	1500	1500	1500	1500
Heating time	ΔT 35° C	minutes	1 h 26'	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	ΔT 45° C	minutes	1 h 51'	2 h 58'	3 h 42'	4 h 27'	5 h 34'
Weight		Kg	16	20.5	25	28.5	29.5

CALYPSO MT

MID CAPACITY ELECTRIC WATER HEATER WITH AUXILIARY COIL



- **Multi-energy** water heater: includes a **copper** electric heating element and **coil** for indirect heating from a external source
- Electric or auxiliary heating can operate individually or simultaneously
- Horizontal execution or vertical one, the latter available with 2 or 6 coils exchanger
- High-concentration magnesium anode to protect the tank
- **Five bolt flange to ensure sturdiness and easy periodical maintenance**
- Pressure relief valve set to 8 bar
- Manual outside temperature adjustment (vertical model)
- Hydraulic connections for auxiliary heating can be on the right on left side of the appliance
- Combined heating system through electric heater and auxiliary coil represent the quickest solution to heat DHW
- Mixed water heater is a flexible solution, which permits the user to choose, in **winter period, between quick combined operation, or economic mode exploiting only the auxiliary coil, fed by an external heating source**

VERSIONS:
VE *- vertical,* ***HO*** *- horizontal*
CABLE / PLUG *as option*
Elements: *0.8 - 4 kW - copper/stainless steel*

For all the models some customized version might be available on request, subject to minimum order quantity, for this refer to your sales representative.

CALYPSO MT	Mod.	VERTICAL 2 COILS				VERTICAL 6 COILS EXCHANGER			
		80	100	120	150	80	100	120	150
DHW tapping profile		M	L	L	L	L	M	M	L
ERP Class		C	C	C	C	C	C	C	C
Capacity	litres	80	100	120	150	80	100	120	150
Coil surface	m^2	0.15	0.15	0.15	0.15	0.4	0.4	0.4	0.4
Electric power	W	1500	1500	1500	1500	1500	1500	1500	1500
Heating time ΔT 35°C	electric	2 h 18'	2 h 53'	3 h 28'	4 h 19'	2 h 18'	2 h 53'	3 h 28'	4 h 02'
	thermic	59'	1 h 14'	1 h 29'	2 h 10'	21'	26'	31'	39'
Weight	kg	24	28.5	32	33	26.5	31	34.5	35.5

CALYPSO MT	Mod.	HORIZONTAL 2 COILS EXCHANGER			
		80	100	120	150
DHW tapping profile		M	L	L	L
ERP Class		C	C	C	C
Capacity	litres	80	100	120	150
Coil surface	m^2	0.15	0.15	0.15	0.15
Electric power	W	1500	1500	1500	1500
Heating time ΔT 35°C	electric	2 h 18'	2 h 53'	3 h 28'	4 h 19'
	thermic	59'	1 h 14'	1 h 29'	2 h 10'
Weight	kg	20.5	25	28.5	29.5

CALYPSO XL

ELECTRICAL WATER HEATERS
COMMERCIAL RANGE

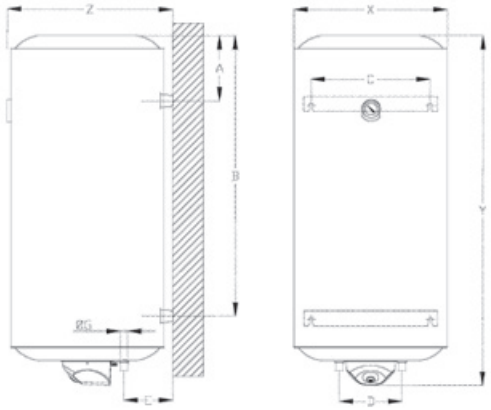


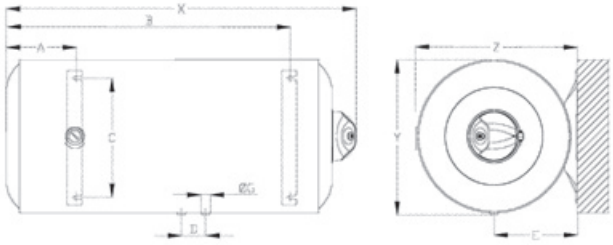
CALYPSO XL covers the needs of big residential plants or commercial applications for collective leisure, restauration, lodging facilities.

- Copper element
- Range: Model 200 litres - vertical / horizontal
- Internal regulation
- Setpoint temperature can be modified through the internal knob, removing the plastic cover.
- It is however factory pre-set in order to get maximum possible efficiency according to European regulation 812/2013.
- A proper setting ensures a high water flow at mixed 40°C temperature.
- Vertical model is adjusted at 70°C whereas the horizontal one at 60°C
- Oversize thermal insulation (33 mm)
- 5 bolts flange

VERSIONS:
VE *- vertical,* ***HO*** *- horizontal*
CABLE / PLUG *as option*

For all the models some customized version might be available on request, subject to minimum order quantity, for this refer to your sales representative.





WALL-HUNG EXECUTION			200 V	200 H
Dimensions	X	mm	565	1253
	Y	mm	1253	565
	Z	mm	592	592
	A	mm	195	195
	B	mm	1035	1035
	C	mm	440	265
	D	mm	230	140
	E	mm	175	310
	F	mm	-	595
	G	inches	3/4"	3/4"
Capacity		litres	200	200
Power (standard element)		W	2400	2400
Heating time	ΔT 35°C	minutes	3 h 36'	3 h 36'
	ΔT 45°C	minutes	4 h 38'	4 h 38'
Weight		Kg	51	51

HE 150-300

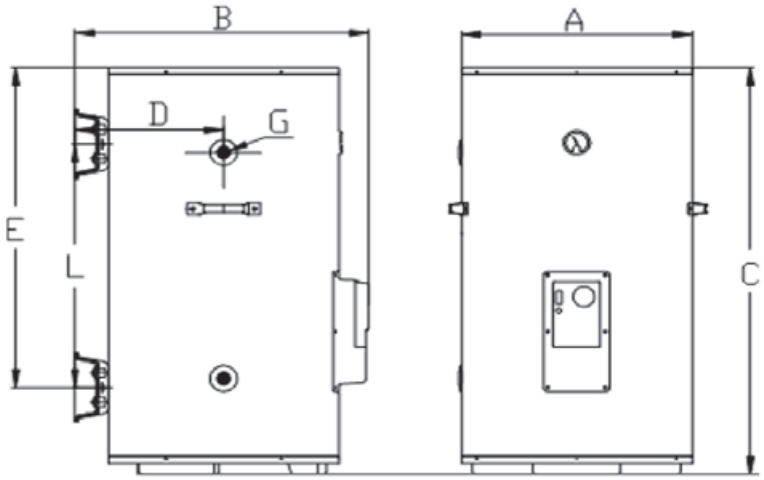
BIG CAPACITY EHW
SINGLE TANK FLOOR STANDING 1 SERIES



- Capacity: 150, 200, 300L
- Power
  150L (1.5 kW) (Floor standing)
  200L (3 kW) (Floor standing)
  300L (4 kW) (Floor standing)
- Interface: thermometer
- Control: product body control

MAIN FEATURES

- High efficiency stainless steel heating element
- Health blue silicon coating
- Glasslined tank
- Large and double magnesium anode
- Unique design of Mg installation
- Drain pipe
- Extra TP valve (optional)
- Power indicate led
- Temperature setting



MODELS	Litres	Product dimensions (mm)								Net weight	Gross weight	Carton box dimension	20 GP	40 GP
	lt	A	B	C	D	E	F	G	H	kg	kg	mm	PCS	PCS
HE-150	150	ø 581	664	875	258	220	385	G 3/4"	-	52	58	684 x 684 x 925	68	180
HE-200	200	ø 581	664	1095	258	220	605	G 3/4"	-	60	68.0	684 x 684 x 1145	48	119
HE-300	300	ø 581	664	1525	258	220	1035	G 3/4"	-	76	86.0	684 x 684 x 1574	35	75

EXTRA UE

MODEL		HE-150	HE-200	HE-300
Capacity	lt	150	200	300
Heating element	W	3000	3000	5000
	material	stainless steel		
Thermostat	-	capillary		
Power cable	-	no		
CODE		**GRA3000A**	**GRA4300A**	**GRA6300A**

HE 400-500

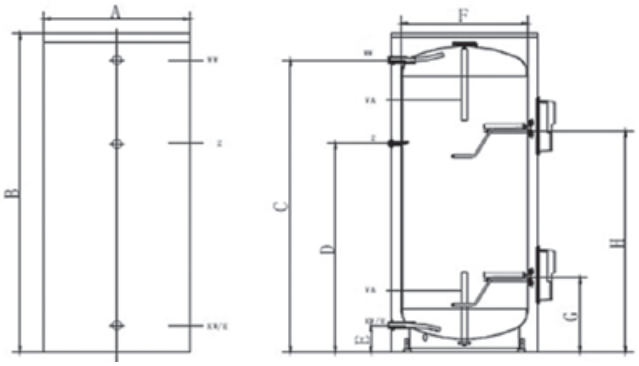
BIG CAPACITY EHW
HALF AND FULL TANK HEATING



- Capacity: 400, 500L (Floor standing)
- Power: 3 kW + 3 kW
- Interface: thermometer
- Control: product body control

MAIN FEATURES

- Half and full tank heating, via single or double element operation
- 50 mm insulating layer
- High efficiency stainless steel heating element
- Health blue silicon coating
- Glasslined tank
- Large and double magnesium anode
- Unique design of mg installation
- Drain pipe
- Extra TP valve (optional)
- Power indicate led
- Temperature setting



MODELS	Litres	Product dimensions (mm)								Net weight	Gross weight	Carton box dimension	20 GP	40 GP
	lt	A	B	C	D	E	F	G	H	kg	kg	mm	PCS	PCS
HE-400	400	ø 750	1469	1319	930	148	650	410	930	81	145.0	833 x 833 x 1590	14	28
HE-500	500	ø 750	1769	1619	1236	148	650	410	1236	102	169.0	833 x 833 x 1890	14	28

EXTRA UE

MODEL		HE-400	HE-500
Capacity	lt	400	500
Heating element	W	3000	3000
	material	stainless steel	
Thermostat	-	capillary	
Power cable	-	no	
CODE		**GRA7400A**	**GRA8400A**

G-HE

ELECTRIC
WATER HEATER

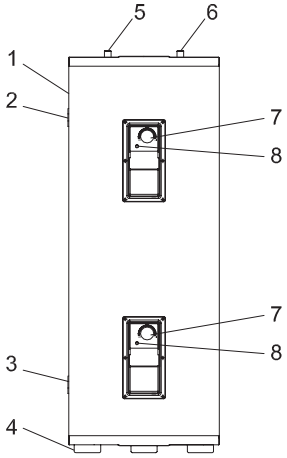


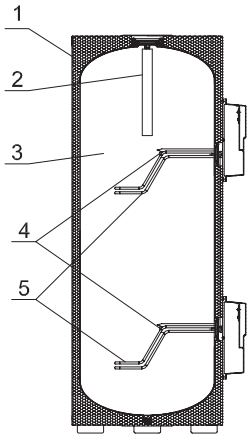
> PRODUCT FEATURES

- G-HE series is a high-efficiency heat generator for hot water production running on electric power and regulated by an advanced temperature setting system.
- Thanks to the integrated POLY insulating technology, the product is equipped with extra thick insulating layer which can effective prevent heat loss from the out shell and save the energy.
- The heater has a good safety system by using anti over-heating protection anti over pressure protection and automatic cutting off according to desired temperature.
- The user only has to set the temperature desired (35°C-75°C). The temperature setting system will provide optimum operation through the time.
- The water heater has two sets of heating system and non-simultaneous working. The upper part the heating system will first work after power supply the lower one will work after upper part of the heating system stop.
- The product is made from product line that is fully computer controlled: the special designed silicon powder is well coated on the inner tank surface by electrostatic technology. Process of cooking at 850°C finally makes the inner tank perfectly protected against shock and corrosion.
- The extra big magnesium anode also provides a long product life.
- Independent pressure releasing outlet, special for installing safety valve (0,8Mpa). When the pressure of water heater is higher than the rated pressure of inner tank, safety valve will automatically release pressure for assuring safety.

> GENERAL VIEW KEY

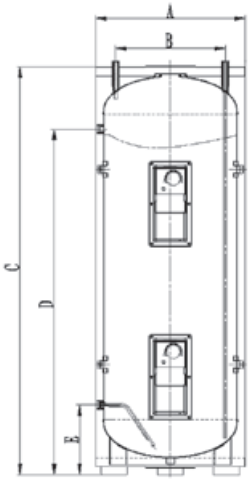
1 Out shell
2 T/P valve outlet
3 Drainage outlet
4 Feet
5 Hot water outlet
6 Cold water inlet
7 Temperature setting knob
8 Indicator





> MAIN COMPONENTS KEY

1 Insulating
2 Magnesium anode
3 Inner tank
4 Magnesium anode
5 Heating elements



G-HE		200	300	400	500
Rated water capacity	lt	200	300	400	500
Rated power	kW	4.5			
Power supply		220-240 V ~ 50/60 Hz			
Temperature	°C	35 - 75			
Max working pressure on inner tank	Mpa	0.8			
Overall dimensions (A x B)	mm	Ø 581 x 1105	Ø 581 x 1535	Ø 750 x 1469	Ø 750 x 1769
Specification of pipe		G 3/4"			
Installation		floor installation			
Litres		200	300	400	500
Product dimensions (mm)	A - Ø	581	581	750	750
	B	280	280	380	380
	C	1105	1535	1469	1769
	D	805	1235	1319	1619

BRAVO

ELECTRICAL WATER HEATERS
SMALL LITRE CAPACITY



- Range of 5 models with 10, 15 and 30 litre capacities
- 10 and 15-litre models available in versions for installation over and under the sink

> EQUIPPED WITH:

- Stainless steel electrical heating elements
- Glass-porcelain storage tank
- High concentration magnesium anode
- External temperature regulator
- Plastic external casing
- Capillary temperature-control thermostat

**** UNDER SINK***

MODEL		SN 10	SN 10 S*	SN 15	SN 15 S*	SN 30
Load profile		XXS	XXS	XXS	XXS	S
ERP Class		B	B	B	B	C
Tank capacity	l	10	10	15	15	30
Electrical power	W	1500	1500	1500	1500	1500
Heating time	20+55°C	24min	25min	35min	35min	68min
Protection rating	IP	24	24	24	24	24
Empty weight	Kg	6.5	6.5	7.8	7.8	11.5

NOVO

ELECTRICAL WATER HEATERS
SMALL LITRE CAPACITY



- Range composed of 2 models with 5 and 10-litre capacity both available in versions over and under-sink

> EQUIPPED WITH:

- Stainless steel electrical heating elements
- Glass-porcelain storage tank
- HIgh concentration magnesium anode
- External temperature regulator with LED reporting when the set-point is reached
- Capillary temperature-control thermostat

**** UNDER SINK***

MODEL		5	5 S*	10	10 S*
Load profile		XXS	XXS	XXS	XXS
ERP Class		B	B	B	B
Tank capacity	l	5	5	10	10
Electrical power	W	2000	2000	2000	2000
Heating time	20+55°C	10min	10min	19min	19min
Empty weight	Kg	4.5	4.5	6.5	6.5

CUBO

ELECTRICAL WATER HEATERS
SMALL LITRE CAPACITY



- Range consisting of 5 models with capacities of 10, 15, and 30 liters
- 10- and 15-liter models available in both over-sink and under-sink versions

> EQUIPPED WITH:

- Stainless steel electric heating elements
- Vitreous enamelled tank with “Blue Silicon” hygienic treatment
- Magnesium anode for tank protection
- External temperature control with LED power indicator
- Outer casing in ABS
- Capillary thermostat for temperature control

**** UNDER SINK***

MODEL		SG 10	SG 10S*	SG 15	SG 15S*	SG 30
Load profile		XXS	XXS	XXS	XXS	S
ERP class		B	B	B	B	C
Tank capacity	l	10	10	15	15	30
Electrical power	W	1500	1500	1500	1500	1500
Heating time	20+55°C	25min	25min	35min	35min	75min
Protection rating	IP	24	24	24	24	24
Empty weight	Kg	5,5	5,5	8,5	8,5	12
CODE		**GRI4T00A**	**GRI0T00A**	**GRD4R0AA**	**GRE0R00A**	**GRE425AA**

RITA FS DE

INSTANTANEOUS ELECTRIC
WATER HEATER



EXTRA UE

- Red copper heating element, inside glassfiber box
- Power level automatically managed by temperature sensor and PCB
- Lcd indicates shower duration, advises flow reduction need, advises shower head cleaning
- Overheating protection
- Self diagnosis
- Hidden electric installation
- Range: 3,0 kW / 5,0 kW / 7,5 kW / 8,5 kW / 10,0 kW / 12,0 kW

MODEL	RITA FS DE
Power	220 ~ 240 Vac. 50/60 Hz
Protection	IP24
Min. water flow rate	1.6 - 1.8 lts/min
Water pressure	0.3 - 8 bar
Max temperature	52°C
Plumbing connections	1/2”
Product dimension H x W x D	280 x 177 x 95 mm

MITO SMD

INSTANTANEOUS ELECTRIC WATER HEATER



- Copper heating element
- Seven work mode
- Color screen LED display
- ELCB device for extra electric protection (optional)
- Self diagnosis
- Low water pressure starting
- Hidden electric installation
- Range: 5,0 kW / 6,5 kW / 7,7 kW / 8,5 kW

MODEL	MITO SMD
Power	220 ~ 240 Vac. 50/60 Hz
Protection	IP24
Min. water flow rate	1.8 lts/min
Water pressure	0.3 - 6 bar
Plumbing connections	1/2"
Product dimension H x W x D	280 x 177 x 94.5 mm
Weight	1.85 kg

AMORE

INSTANTANEOUS SLIM ELECTRIC WATER HEATER



MOD. GSN

- Luxury black glass
- Elcb (Earth Leakage Circuit Breaker)
- Energy saving
- Multiple protections
- WxHxD = 240 x 360 x 75mm
- Power: 4500 w - 220-240v/50hz

AMORE MOD. GSN
- Control: power selector
- Temperature stabilizer
- Flow switch sensor
- Splash proof
- Thermal safety cut-out

AMORE MOD. GSP
- Control: power selector
- Temperature stabilizer
- Flow switch sensor
- Splash proof
- Thermal safety cut-out
- Super silent pump
- Booster pump

AMORE MOD. GDP
- Control: touch button
- Electronic control 4 memory setting
- Colorful led display
- Temperature dtabilizer
- Splash proof
- Thermal safety cut-out
- Super silent pump
- Booster pump



MOD. GSP



MOD. GDP

MINI

INSTANTANEOUS ELECTRIC WATER HEATER



EXTRA UE

- Compact tankless electric water heater, 220~240 Vac, 50/60 Hz
- Instant production of DHW. Supplied flow depends on ΔT required (cold water temperature) and viceversa
- Power settable in 3 steps
- Simple analogue, mechanichal operation, via regulation/safety thermostat, pressure/flow switch, ignition microswitches

MODEL		DFF-KAM 3.0S	DFF-KAM 5.0S	DFF-KAM 5.5S
Load profile		XS	XS	XS
ERP Class		B	B	B
Power	kW	3 kW (1+2)	5 kW (2+3)	5.5 kW (2.5+3)
Min waterflow rate	l/min	1.8		
Water pressure min/max	bar	0.8 ÷ 6		
Water connection	Ø mm	15 mm (1/2" BSP)		
Weight	kg	1.5		

EGEA TECH 90-120 LT

WALL-MOUNTED HEAT PUMP WATER HEATER FOR LOW TEMPERATURES



PATENTED

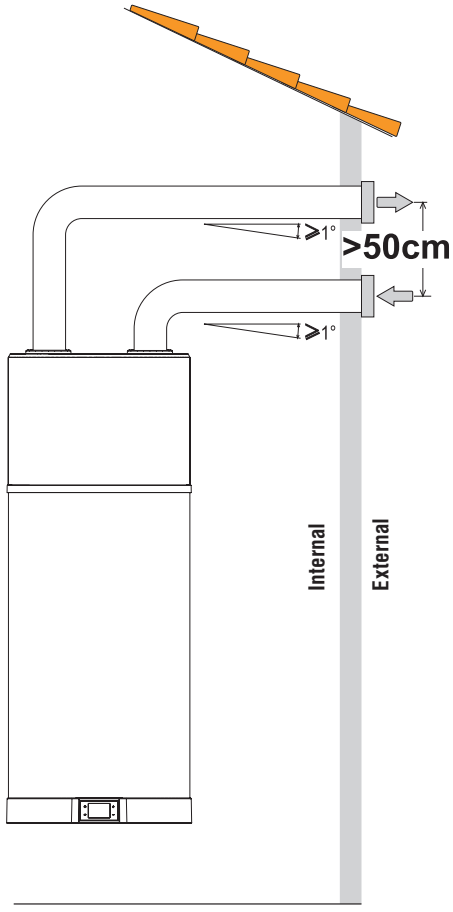


> GENERAL FEATURES:

- Air-source heat pump for wall-mounted installations with integrated storage tank for domestic hot water production
- Eco-friendly refrigerant gas R290 and active defrosting system allowing proper operation down to -7°C air temperature
- Integrated 1200 W electric heating element
- Built-in Wi-Fi for smartphone control via the "FERROLI HOME" App
- Simple and intuitive onboard touch control panel
- Enamelled steel water storage tank with 50 mm polyurethane insulation
- Main aluminum heat exchanger external to the tank
- Prepared for solar coil connection (version "LT-S")
- Possibility to duct the exhaust air
- Programmable anti-legionella cycle
- Provision (digital input) for activation using available photovoltaic energy
- Provision (digital input) for activation with reduced electricity tariff

- Through the **FERROLI HOME** app or the onboard control panel, multiple operating modes can be selected:
  Eco: heat pump only (max setpoint 62°C)
  Auto: heat pump with electric element support if needed (max setpoint 62°C)
  Boost: heat pump and electric element operate simultaneously (max setpoint 75°C)
  Electric: electric element only (max setpoint 75°C)
  Fan: ventilation only
  The EGEA TECH control electronics can manage and optimize integration with photovoltaic energy, increasing the water temperature in the tank up to a user-defined value (max 75°C).

  Energy consumption can be monitored via the **ENERGY MONITORING function (designed and patented by FERROLI)**, allowing for optimized domestic hot water production and maximum user comfort.



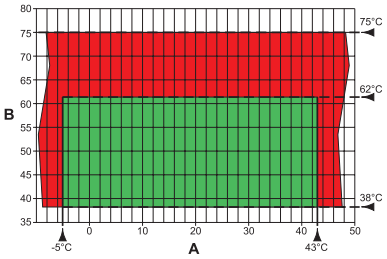
CONNECTIVITY Thanks to the "**FERROLI HOME**" App downloadable on smartphone, EGEA TECH can be fully managed by changing its parameters and operating modes.

FERROLI HOME



OPERATING LIMITS **Temperature range**. The graph below gives the temperature range of the air and water produced within which correct operation is guaranteed.

mod. 90-120 LT



A Inlet air temperature °C
B Temperature of hot water produced °C
Working range for heat pump
Integration with heating element only

SUPPLY VOLTAGE RANGE The table below gives the variation conditions allowed for the power supply

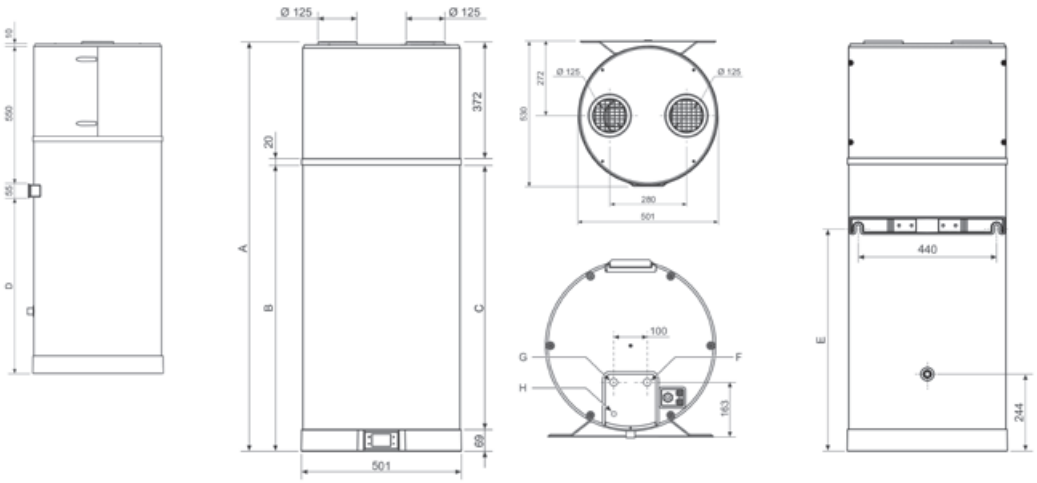
Standard power supply	230-1-50	V-ph-Hz
Permissible voltage range	207 - 254	V

GENERAL TECHNICAL DATA

EGEA TECH		90 LT	120 LT
Nominal storage capacity	L	89	118
Max hot water capacity at 40°C	L	102	145
Storage dispersion	W	40	46
DHW max temperature with heat pump only	°C	62	62
DHW max temperature with supplementary electric booster	°C	75	75
Integrated heating element power	W	1200	1200
Average absorbed power in heating	W	270	270
Pump heat output	W	607	613
Dimensions (Ø x H)	mm	510 x 1333	510 x 1555
Empty weight	kg	49	55
Max water pressure	bar	7	7
Max air temperature	°C	43	43
Min air temperature	°C	-5	-5
Nominal air flow	m^3/h	170	170
Max available head for cold air outlet	Pa	110	110
Duct diameter	mm	125	125
Required room volume	m^3	15	15
Power supply parameters	V-Hz	230V - 50Hz	230V - 50Hz
Protection rating		IP24	IP24
Indoor sound power Lw(A)	dB(A)	54	53
Gas type		R290	R290
Charge quantity	g	150	150
Heating time 7°C in ECO mode	hh:mm	05:52*	08:15*
COP DHW 7°C		3.12	2.75
Internal coil for solar		--	--
Energy efficiency class for heating water in average climatic conditions		A	A
Energy efficiency of water heating in % in average climatic conditions	%	134	119
Annual energy consumption in average climatic conditions	kW/h	383	430
Declared load profile		M	M
CODE		**2CP0020F**	**2CP0021F**

- Test in accordance with EN 16147-2017 regulations with air inlet temperature at 7°C (6°C), boiler storage room temperature 20°C, water discharge 10°C to 53°C. (*)

ACCESSORIES	CODE	DESCRIPTION
	**2CP00280**	Cascade regulator kit (1 piece should be installed for each water heater in cascade)
	**016094X0**	Covering kit for external installation



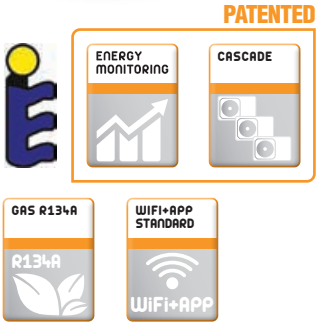
EGEA TECH		90 LT	120 LT
A	mm	1303	1555
B	mm	912	1162
C	mm	843	1094
D	mm	690	940
E	mm	711	963

EGEA TECH 200-260 HT/LT/LT-S

FLOOR-STANDING HEAT PUMP WATER HEATER FOR LOW OR HIGH TEMPERATURES



PATENTED



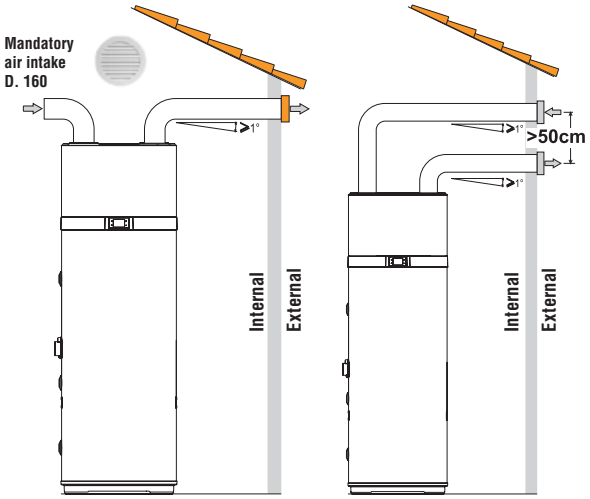
> GENERAL FEATURES:

- Air-source heat pump for floor installations with integrated storage tank for domestic hot water production
- LT models are equipped with an **active defrosting system** allowing correct operation down to -7°C air temperature
- Refrigerant gas R134a
- Integrated 1500 W electric heating element
- Built-in Wi-Fi for smartphone control via the **"FERROLI HOME"** App
- Simple and intuitive onboard touch control panel
- Enamelled steel water storage tank with 50 mm polyurethane insulation
- Main aluminum heat exchanger external to the tank
- Prepared for solar coil connection **(version "LT-S")**
- Double magnesium anti-corrosion anode
- Possibility to duct air and programmable anti-legionella cycle
- Provision (digital input) for activation using available photovoltaic energy
- Provision (digital input) for activation with reduced electricity tariff
- Provision (digital input) for connection with solar thermal systems **(models "LT-S")**
- Integrated management of forced-circulation solar thermal systems **(models "LT-S")**
- The standard control electronics allow the management of **cascade systems with up to 8 EGEA TECH floor-standing units using MASTER-SLAVE logic** via Modbus connection between units. Through the FERROLI HOME app or the onboard control panel, several operating modes can be selected: **Eco:** heat pump only (max setpoint 62°C) / **Auto:** heat pump with electric element support if needed (max setpoint 62°C) / **Boost:** heat pump and electric element simultaneously (max setpoint 75°C) / **Electric:** electric element only (max setpoint 75°C) / Fan: ventilation only.

The EGEA TECH electronics can manage and optimize integration with alternative energy sources. **LT-S models** can be combined with a solar thermal system, controlling its components through standard electronics or integrating with dedicated control units.

Energy consumption can be monitored via the **ENERGY MONITORING function (designed and patented by FERROLI)**, ensuring efficient domestic hot water production and maximum user comfort.

CHANNELING EXAMPLES



CONNECTIVITY

Thanks to the "**FERROLI HOME**" App downloadable on smartphone, EGEA TECH can be fully managed by changing its parameters and operating modes.

FERROLI HOME

GET IT ON Google Play

Download on the App Store



SUPPLY VOLTAGE RANGE

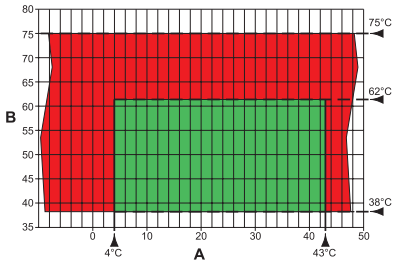
The table below gives the variation conditions allowed for the power supply

Alimentazione standard	230-1-50	V-ph-Hz
Range di tensione ammessa	207 - 254	V

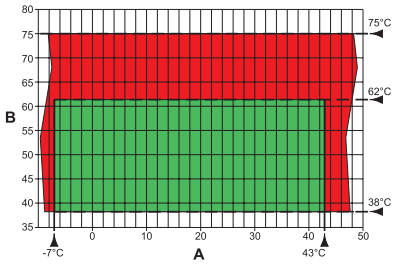
OPERATING LIMITS

Temperature range. The graph below gives the temperature range of the air and water produced within which correct operation is guaranteed.

mod. 200-260 HT



mod. 200-260 LT / LT-S



A Inlet air temperature °C

B Temperature of hot water produced °C

Working range for heat pump

Integration with heating element only

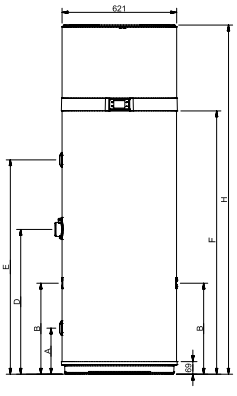
GENERAL TECHNICAL DATA

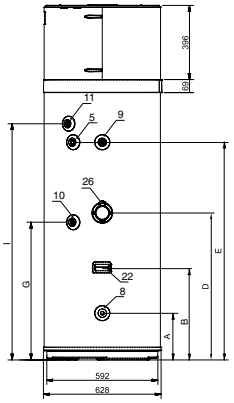
EGEA TECH		200 HT	260 HT	200 LT	260 LT	200 LT-S	260 LT-S
Nominal storage capacity	L	192	250	192	250	187	247
Max hot water capacity at 40°C	L	260	358	247	340	241	335
Storage dispersion	W	60	70	60	70	60	70
DHW max temperature with heat pump only	°C	62	62	62	62	62	62
DHW max temperature with supplementary electric booster	°C	75	75	75	75	75	75
Integrated heating element power	W	1500	1500	1500	1500	1500	1500
Average absorbed power in heating	W	370	370	430	430	430	430
Pump heat output	W	1248	1283	1339	1249	1339	1249
Dimensions (Ø x H)	mm	621 x 1607	621 x 1892	621 x 1607	621 x 1892	621 x 1607	621 x 1892
Empty weight	kg	86	98	88	100	97	109
Max water pressure	bar	7	7	7	7	7	7
Max air temperature	°C	43	43	43	43	43	43
Min air temperature	°C	4	4	-7	-7	-7	-7
Nominal air flow	m^3/h	350	350	450	450	450	450
Max available head for cold air outlet	Pa	100	100	117	117	117	117
Duct diameter	mm	160	160	160	160	160	160
Required room volume	m^3	>20	>20	>20	>20	>20	>20
Power supply parameters	V-Hz	230V - 50Hz	230V - 50Hz	230V - 50Hz	230V - 50Hz	230V - 50Hz	230V - 50Hz
Protection rating		IP24	IP24	IP24	IP24	IP24	IP24
Indoor sound power Lw(A)	dB(A)	52	52	53	51	53	51
Gas type		R134a	R134a	R134a	R134a	R134a	R134a
Charge quantity	g	1000	1000	1000	1000	1000	1000
Heating time 7°C in ECO mode	hh:mm	07:16	09:44	06:27*	09:29*	06:27*	09:29*
COP DHW 7°C		2,8	3,1	3.23	3.37	3.23	3.37
Internal coil for solar		--	--	--	--	0.72	0.72
Energy efficiency class for heating water in average climatic conditions		A	A	A	A	A	A
Energy efficiency of water heating in % in average climatic conditions	%	116	127	135	138	135	138
Annual energy consumption in average climatic conditions	kW/h	883	1315	761	1210	761	1210
Declared load profile		L	XL	L	XL	L	XL
CODE		**2CP0022F**	**2CP0023F**	**2CP0024F**	**2CP0025F**	**2CP0026F**	**2CP0027F**

- Test in accordance with EN16147-2017 with air inlet temperature at 7°C (6°C), boiler storage ambient temperature 20°C, water heating from 10°C to 53°C. **(*)**

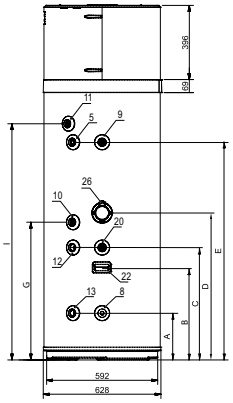
ACCESSORIES	CODE	DESCRIPTION
	**043007X0**	**FOR LT-S VERSIONS ONLY** Solar collectors probe (see solar thermal)
	**2CP00280**	Cascade regulator kit (1 piece should be installed for each water heater in cascade)

mod. HT

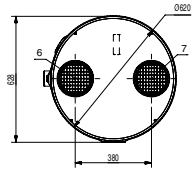




mod. LT / LT-S



EGEA TECH		200 HT	260 HT	200 LT	260 LT	200 LT-S	260 LT-S
A	mm	250	250	250	250	250	250
B	mm	490	490	490	490	490	490
C	mm	-	-	-	-	600	600
D	mm	705	785	705	785	705	785
E	mm	877	1162	877	1162	877	1162
F	mm	1142	1427	1142	1427	1142	1427
G	mm	705	735	705	735	705	735
H	mm	1607	1892	1607	1892	1607	1892
I	mm	976	1261	976	1261	976	1261



BUFFERS AND STORAGE

ECOUNIT N

SINGLE/DOUBLE COIL STORAGE TANKS



> PRODUCT FEATURES

- Vertical storage tanks for DHW, with single coil **(version 1C)** or with double coil **(version 2C)**, in enamelled steel.
- Glass-porcelain steel storage tank, 50mm rigid insulation and external finish of grey painted steel sheeting
- Supplied as standard with magnesium anode
- Optional 1500-2000-3000W heating element, adjustable from 15°C to 75°C
- Fitting for recirculation

DIMENSIONS (mm)						
	100-1C	150-1C	200-1C	300-1C	200-2C	300-2C
A	500	500	540	620	540	620
B	978	1325	1453	1535	1453	1535
C	870	1216	1344	1431	1344	1431
D	736	1088	1234	1261	1234	1311
E	636	988	984	1061	1134	1211
F	536	888	884	961	1034	1111
G	336	336	334	361	934	961
H	236	236	234	261	834	861
I	126	126	124	131	734	761
J	-	-	-	-	234	261
K	-	-	-	-	124	131
L	-	-	-	-	324	351
M	400	400	440	520	440	520
N	326	326	324	351	324	351

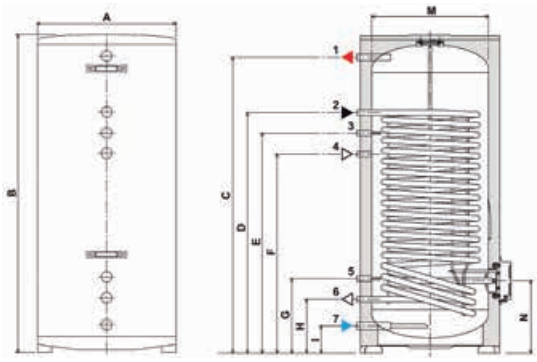
TYPE OF FITTING						
	100-1C	150-1C	200-1C	300-1C	200-2C	300-2C
DHW	3/4"	3/4"	3/4"	1"	3/4"	1"
coil/s	3/4"	3/4"	3/4"	1"	3/4"	3/4"
recirculation	3/4"	3/4"	3/4"	1"	3/4"	3/4"

EXTRA UE

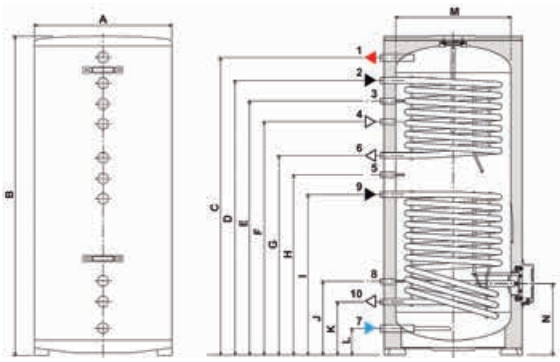
> KEY

1 Hot water outlet
2 Boiler inlet
3 Probe
4 Recirculation
5 Probe
6 Boiler outlet
7 Cold water inlet
8 Probe
9 Solar inlet
10 Solar outlet

ECOUNIT VERSION 1C



ECOUNIT VERSION 2C



MODEL		SINGLE COIL				DOUBLE COIL	
		100-1C	150-1C	200-1C	300-1C	200-2C	300-2C
Capacity	l	89	129	173	261	174	262
Exchange surface (upp/low)	m^2	0.74	1.25	1.4	1.83	0.5/0.83	0.72/1
Power (Δt 35°C - upp/low)	KW	18.5	31.25	35	45.75	12.5/20.75	18/25
Pressure drops (upp/low)	mbar	228	386	432	565	155/254	220/308
Max operating temperature	°C	95	95	95	95	95	95
Primary flow rate	m^3/h	2	2	2	2	2	2
Max operating pressure	bar	8	8	8	8	8	8
Empty weight	kg	46	63	74	101	73	102
CODE		**GRY0780A**	**GRY0980A**	**GRY0BZ0A**	**GRY0W00A**	**GRY0YZ0A**	**GRY0Z00A**
HEATING ELEMENT CODE	**1500W**	**90903530**		**90903531**		**90903531**	
	2000W	**90903540**		**90903541**		**90903541**	
	3000W	**90903550**		**90903551**		**90903551**	

ECOUNIT F

SINGLE/DOUBLE COIL STORAGE TANKS



> PRODUCT FEATURES

- Vertical storage tanks for DHW, with single coil **(version 1C)** or with double coil **(version 2C)**, in enamelled steel.
- Glass-porcelain steel storage tank, 50mm rigid insulation and external finish of grey painted steel sheeting
- Supplied in standard configuration with magnesium anode and integrating electrical heating element of 1500W and adjustable from 15°C to 75°C
- Fitting for recirculation

DIMENSIONS (mm)								
	100-1C	150-1C	200-1C	300-1C	500-1C	200-2C	300-2C	500-2C
A	500	500	540	620	750	540	620	750
B	978	1325	1453	1535	1769	1453	1535	1769
C	870	1216	1344	1431	1626	1344	1431	1626
D	736	1088	1234	1261	1261	1234	1311	1474
E	636	988	984	1061	1161	1134	1211	1374
F	536	888	884	961	1061	1034	1111	1274
G	336	336	334	361	441	934	961	1152
H	236	236	234	261	341	834	861	1052
I	126	126	124	131	155	734	761	898
J	-	-	-	-	-	234	261	398
K	-	-	-	-	-	124	131	298
L	-	-	-	-	-	324	351	155
M	400	400	440	520	650	440	520	650
N	326	326	324	351	418	324	351	418

TYPE OF FITTING								
	100-1C	150-1C	200-1C	300-1C	500-1C	200-2C	300-2C	500-2C
DHW	3/4"	3/4"	3/4"	1"	1"	3/4"	1"	1"
coil/s	3/4"	3/4"	3/4"	1"	1"	3/4"	3/4"	1"
recirculation	3/4"	3/4"	3/4"	1"	1"	3/4"	3/4"	3/4"

MODEL		SINGLE COIL					DOUBLE COIL		
		100-1C	150-1C	200-1C	300-1C	500-1C	200-2C	300-2C	500-2C
ERP Class		C	C	C	C	C	C	C	C
Capacity	l	89	129	169	257	460	174	262	461
Thermal dispersion	W	66	74	82	93	113	82	93	113
Exchange surface (upp/low)	m^2	0.74	1.25	2.08	2.57	3.39	0.5/0.83	0.72/1	1.19/2.2
Power (Δt 35°C - upp/low)	KW	18.5	31.25	52	64.25	84.75	12.5/20.75	18/25	29.6/55
Pressure drops (upp/low)	mbar	228	386	432	565	167	155/254	220/308	58/109
Max operating temperature	°C	95	95	95	95	95	95	95	95
Primary flow rate	m^3/h	2	2	2	2	2	2	2	3
Max operating pressure	bar	8	8	8	8	8	8	8	8
Empty weight	kg	45	64	73	103	155	73	102	155
CODE		**GRZ101KA**	**GRZ301KA**	**GRL4110A**	**GRL6310A**	**GRZ841KA**	**GRJ4120A**	**GRM6320A**	**GRH842VA**

ECOUNIT HP

INTEGRATED DHW TANKS FOR HEAT PUMP AND BOILER



> PRODUCT FEATURES

- Vertical storage tanks for DHW, with single coil **(version 1C)** or with double coil **(version 2C)**, in enamelled steel
- Glass-coated steel storage tank, 50mm rigid insulation and external finish of grey painted steel sheeting
- Supplied in standard configuration with **double magnesium anode** and 2000W integrated **electric heater, regulation thermostat** (from 15°C to 75°C), **safety thermostat** (93°C)
- Fitting for re-circulation

DIMENSIONS (mm)								
ECOUNIT HP	200-1C	300-1C	400-1C	500-1C	200-2C	300-2C	400-2C	500-2C
A	540	620	750	750	540	620	750	750
B	1438	1557	1469	1769	1438	1557	1469	1769
C	1316	1431	1313	1618	1328	1423	1313	1618
D	1197	1301	997	1120	1226	1323	1174	1474
E	976	1061	885	1020	1126	1223	1074	1374
F	876	961	785	878	1026	1123	974	1274
G	226	261	341	341	826	873	752	1053
H	124	131	163	163	637	699	559	695
I	-	-	-	-	400	453	462	462
J	-	-	-	-	313	363	380	380
K	-	-	-	-	226	273	298	298
L	-	-	-	-	124	163	163	163
M	440	520	650	650	440	520	650	650
N	304	331	448	448	324	316	373	373

TYPE OF FITTING								
ECOUNIT HP	200-1C	300-1C	400-1C	500-1C	200-2C	300-2C	400-2C	500-2C
DHW	3/4"	1"	1"	1"	3/4"	1"	1"	1"
coil/s	1"	1"	1 1/4"	1 1/4"	1"	1"	1 1/4"	1 1/4"
re-circulation	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

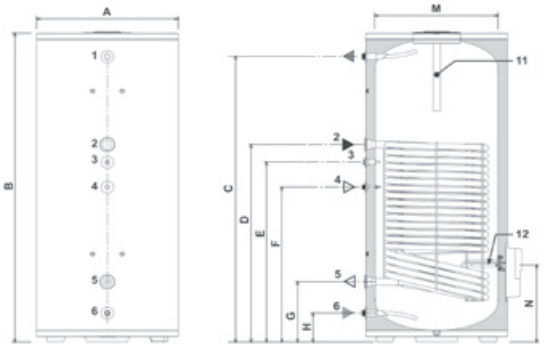
> KEY mod. 1C

1 Domestic hot water outlet
2 Water exchanger inlet
3 Temperature probe
4 Re-circulation
5 Water exchanger outlet
6 Cold water inlet
11 Upper anode
12 Lower anode - electric heater - thermostats

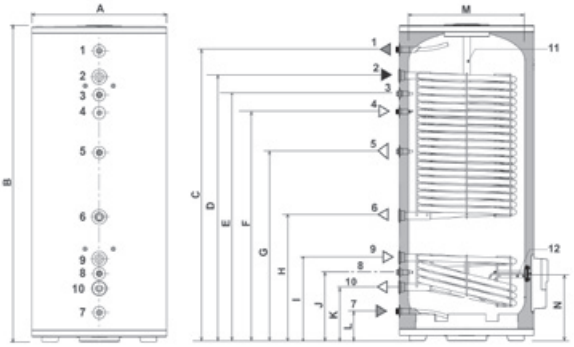
> KEY mod. 2C

1 Domestic hot water outlet
2 Upper water exchanger inlet
3 Temperature probe
4 Re-circulation
5 Temperature probe
6 Upper water exchanger outlet
7 Cold water inlet
8 Temperature probe
9 Lower water exchanger inlet
10 Lower water exchanger outlet
11 Upper anode
12 Lower anode - electric heater - thermostats

ECOUNIT HP version 1C



ECOUNIT HP version 2C



ECOUNIT HP		200-1C	300-1C	400-1C	500-1C	200-2C	300-2C	400-2C	500-2C
ERP class		C	C	C	C	C	C	C	C
Capacity	l	167	254	350	444	162	247	345	434
Standing loss	W	80	92	102	111	80	92	102	111
DHW max operating pressure	bar	8	8	8	8	8	8	8	8
Max operating temperature domestic hot water	°C	95	95	95	95	95	95	95	95
Empty weight	Kg	91	118	153	180	92	126	161	194
Upper coil surface	m^2	2.3	3.1	4.7	5.5	2.3	3.1	4.7	5.5
Heat output (DHW 60°C/50°C)	kW	11.5	15.5	23.5	27.5	17.5	17.5	30	30
DHW production 10°C/45°C - DIN 4708	l/h	283	381	577	676	283	381	577	676
Lower coil surface	m^2	-	-	-	-	0.7	0.7	1.2	1.2
Heat output (DHW 80°C/60°C)	kW	-	-	-	-	17.5	17.5	30	30
DHW production 10°C/45°C - DIN 4708	l/h	-	-	-	-	430	430	737	737
Coil in series surface	m^2	-	-	-	-	3	3.8	5.9	6.7
Low temperature output (DHW 60°C/50°C)	kW	-	-	-	-	15	19	29.5	33.5
Low temp. DHW production 10°C/45°C - DIN 4708	l/h	-	-	-	-	369	467	725	823
CODE		**GRM411PA**	**GRM631PA**	**GRM741AA**	**GRM841AA**	**GRM412PA**	**GRM632PA**	**GRM742AA**	**GRM842AA**

ECOPUFFER HP

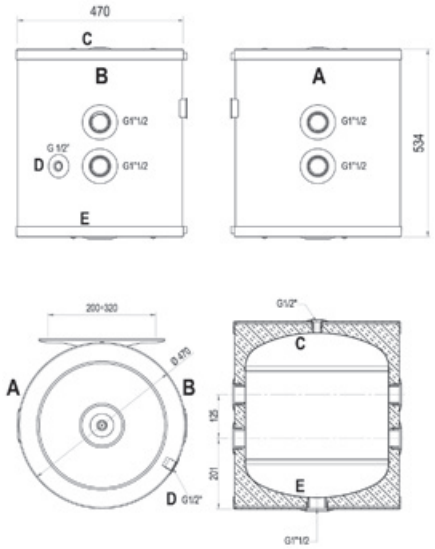
INERTIAL TANK WITH THERMAL FLYWHEEL FUNCTION FOR ALTERNATIVE ENERGIES



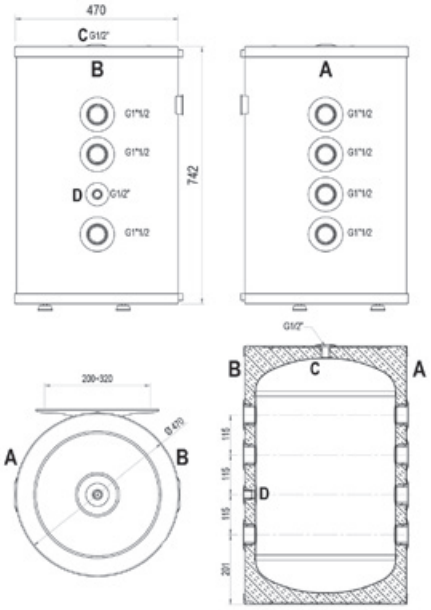
> PRODUCT FEATURES

- Steel tanks with capacity 50 - 80 - 100 litres for the storage of technical water for heating and/or cooling with the function of hydraulic separation and inertial storage
- Depending on applications, they can used as inertial storages to ensure a minimum water content in the system for the right heat pump working or/and as hydraulic separator to ensures the primary circuit (heat pump) and secondary circuit (terminals) flow rates are independent of one another
- The thermal insulation uses polyurethane foam (30 mm). The exterior is in painted sheet metal
- Models 80 e 100 can be wall mounted or floor standing on the adjustable feet supplied as standard
- Model 50 can only be wall mounted
- Energy class C

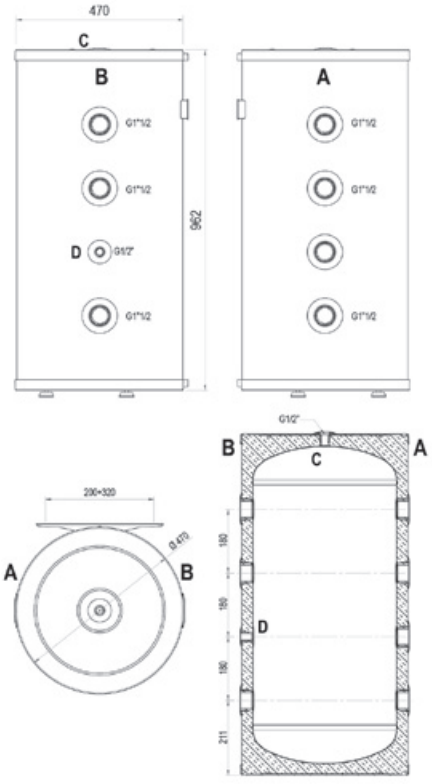
mod. 50



mod. 80



mod. 100



> KEY

A Primary side connections - G 1" 1/2
B Secondary side connections - G 1" 1/2
C Air vent connection - G 1/2"
D Probe connection - G 1/2"
E Heating element / Drain connection - G 1" 1/2

MODEL		50	80	100
ERP class		C	C	C
Capacity	liter	52	78	106
Heat dispersion	W	48.1	61.7	69.8
Max permissible pressure	bar	3	3	3
Max permissible temperature	°C	95	95	95
Min permissible temperature	°C	6	6	6
Weight (empty)	kg	19	25	28
Weight (loaded)	kg	71	103	134
Type of installation		Wall	Wall / Floor	Wall / Floor
CODE		**0Y11MDXA**	**0Y110DXA**	**0Y111DXA**

OIL & GAS BURNERS

TECNO BLU

ONE STAGE
LOW NOX OIL BURNERS

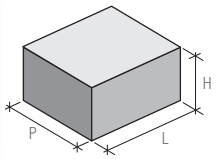


- Out power range from 14.5 kW up to 64 kW (from 1.22 Kg/h up to 5.4 Kg/h)
- All models of the TECNO BLU range are in NOx class 4 (<120 mg/kWh) in compliance with EN 267 European Standard
- The R models are supplied complete with a pre-heater to improve starting in cold locations
- Each component of burners has been designed to facilitate adjustment and maintenance
- Burners are supplied as standard with: Fixing flange and screws / Insulation flange gasket / 7-pin connector / Oil nozzle / 2 flexible pipes / Oil filter / Instructions manual

The TECNO BLU series complies with:
2006/42/EC Machinery Directive
2014/30/UE EMC Directive
2014/35/UE Low Voltage Directive
813/2013/UE Ecodesign Erp Regulation
EN267 European standard
2006/42/EC Efficiency
2011/65/EU RoHS2 Directive

PACKAGING DIMENSIONS (in mm)

Model	Packaging dimension (mm)			Total weight (Kg)
	L	P	H	
TECNO 4 BLU	420	390	270	8.4
TECNO 4 R BLU	420	390	270	8.4
TECNO 8 BLU	420	390	270	8.4
TECNO 8 R BLU	420	390	270	8.4

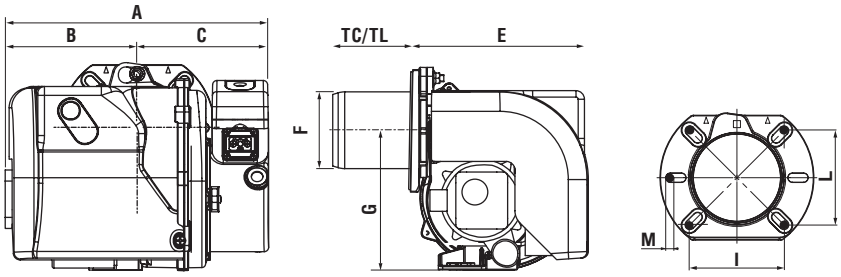


Burner model	Type of flame tube (3)	NOx class (2)	Operation	Flow rate (Kg/h)		Output power (kW)		Electrical supply	Motor absorption	Total absorption	Nozzle supplied	Code
				Min	Max	Min	Max	Phase/V/Hz	W	W		
TECNO 4 BLU	TC	4 (ERP)	One stage	1.22	3.79	14.5	45	1/230/50	75	350	Danfoss 0.60 60°S	**0UEM7DXA**
TECNO 4 R BLU (1)	TC	4 (ERP)	One stage	1.22	3.79	14.5	45	1/230/50	75	360	Danfoss 0.60 60°S	**0UEM7KXA**
TECNO 8 BLU	TC	4 (ERP)	One stage	2.11	5.4	25	64	1/230/50	90	400	Danfoss 0.85 60°S	**0UEM9DXA**
TECNO 8 R BLU (1)	TC	4 (ERP)	One stage	2.11	5.4	25	64	1/230/50	90	410	Danfoss 0.85 60°S	**0UEM9KXA**

(1) R version with preheater
(2) NOx class 4 <120 mg/kW/h in according with EN 267
(3) TC - Short flame tube

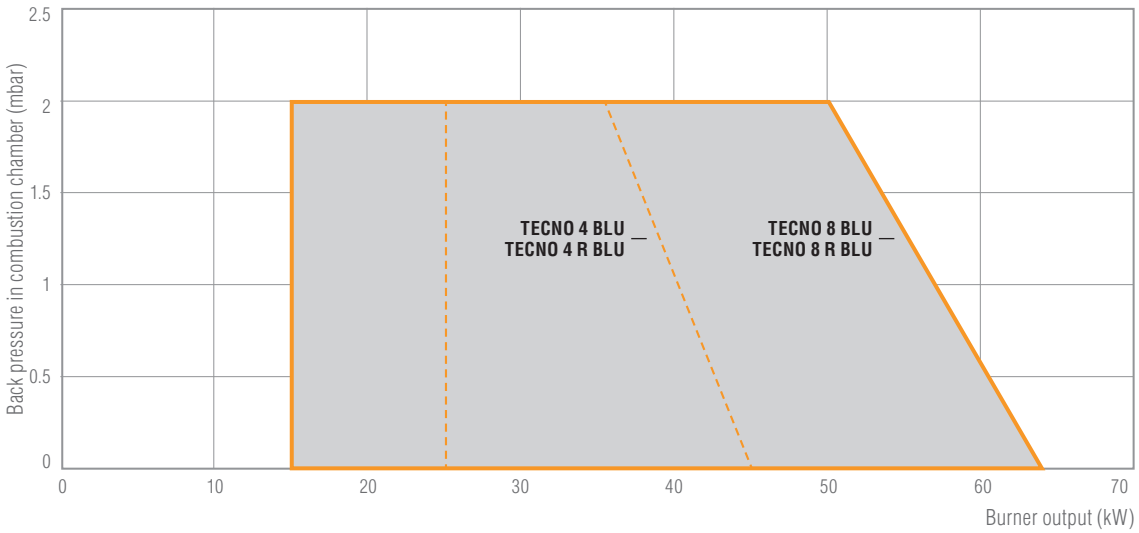
DIMENSIONS (in mm)

TECNO 4 BLU | TECNO 4 R BLU | TECNO 8 BLU | TECNO 8 R BLU



Model	Dimension (mm)										
	A	B	C	E	TC	TL	F	G	I	L	M
TECNO 4 BLU	297	149	148	204	90	-	89	160	90/107	90/107	M8
TECNO 4 R BLU	297	149	148	204	90	-	89	160	90/107	90/107	M8
TECNO 8 BLU	303	155	148	204	90	-	89	160	100/120	100/120	M8
TECNO 8 R BLU	303	155	148	204	90	-	89	160	100/120	100/120	M8

WORKING DIAGRAMS



TECNO/2 BLU

TWO STAGE
LOW NOX OIL BURNERS

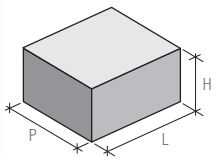


- Out power range from 32 kW up to 450 kW (from 2.7 Kg/h up to 37.94 Kg/h)
- All models of the TECNO/2 BLU range are in NOx class 4 (<120 mg/kWh) in compliance with EN 267 European Standard
  Available with two different combustion head lengths to favorite the matching with several combustion chambers
- Air gate control of the two-stage versions with hydraulic jack
- Each component of burners has been designed to facilitate adjustment and maintenance
- Burners are supplied as standard with: Fixing flange and screws / Insulation flange gasket / 7-pin connector / 4-pin connector / Oil nozzle / 2 flexible pipes / Oil filter / Instructions manual

The TECNO/2 BLU series complies with:
2006/42/EC Machinery Directive
2014/30/UE EMC Directive
2014/35/UE Low Voltage Directive
813/2013/UE Ecodesign Erp Regulation
EN267 European standard
2006/42/EC Efficiency
2011/65/EU RoHS2 Directive

PACKAGING DIMENSIONS (in mm)

Model	Packaging dimension (mm)			Total weight (Kg)
	L	P	H	
TECNO 12/2 BLU	420	390	270	8.4
TECNO 12/2 L BLU	420	390	270	8.4
TECNO 15/2 BLU	610	430	320	8.4
TECNO 15/2 L BLU	610	430	320	8.4
TECNO 25/2 BLU	610	430	320	17.3
TECNO 25/2 L BLU	610	430	320	17.3
TECNO 35/2 BLU	610	430	320	17.3
TECNO 35/2 L BLU	610	430	320	17.3
TECNO 50/2 BLU	610	430	320	17.3
TECNO 50/2 L BLU	610	430	320	17.3

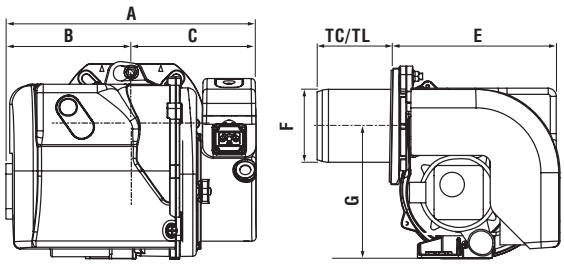


Burner model	Type of flame tube (3)	NOx class (2)	Operation	Flow rate (Kg/h)		Output power (kW)		Electrical supply	Motor absorption	Total absorption	Nozzle supplied	Code
				Min	Max	Min	Max	Phase/V/Hz	W	W		
TECNO 12/2 BLU	TC	4 (ERP)	Two stage	2.7	9.7	32	115	1/230/50	130	450	Danfoss 1.50 60°S	OUEBCDXA
TECNO 12/2 L BLU	TL	4 (ERP)	Two stage	2.7	9.7	32	115	1/230/50	130	450	Danfoss 1.50 60°S	OUEBCGXA
TECNO 15/2 BLU	TC	4 (ERP)	Two stage	5.54	14.33	65.7	172.1	1/230/50	160	500	Danfoss 2.25 60°S	OUEBEDXA
TECNO 15/2 L BLU	TL	4 (ERP)	Two stage	5.54	14.33	65.7	172.1	1/230/50	160	500	Danfoss 2.25 60°S	OUEBEGXA
TECNO 25/2 BLU	TC	4 (ERP)	Two stage	8.43	22.01	100	261	1/230/50	200	600	Danfoss 3.75 60°S	OUEBFDXA
TECNO 25/2 L BLU	TL	4 (ERP)	Two stage	8.43	22.01	100	261	1/230/50	200	600	Danfoss 3.75 60°S	OUEBFGXA
TECNO 35/2 BLU	TC	4 (ERP)	Two stage	11.79	32.43	140	385	1/230/50	550	700	Danfoss 4.50 60°B	OUEBGDXA
TECNO 35/2 L BLU	TL	4 (ERP)	Two stage	11.79	32.43	140	385	1/230/50	550	700	Danfoss 4.50 60°B	OUEBGGXA
TECNO 50/2 BLU	TC	4 (ERP)	Two stage	15.18	37.94	180	450	1/230/50	550	800	Danfoss 5.00 60°B	OUEBHDXA
TECNO 50/2 L BLU	TL	4 (ERP)	Two stage	15.18	37.94	180	450	1/230/50	550	800	Danfoss 5.00 60°B	OUEBHGXA

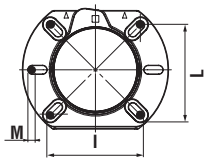
(2) NOx class 4 <120 mg/kW/h in according with EN 267
(3) TC - Short flame tube

DIMENSIONS (in mm)

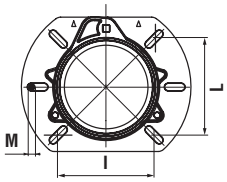
TECNO 12/2 BLU | TECNO 12/2 L BLU | TECNO 15/2 BLU | TECNO 15/2 L BLU | TECNO 25/2 BLU | TECNO 25/2 L BLU



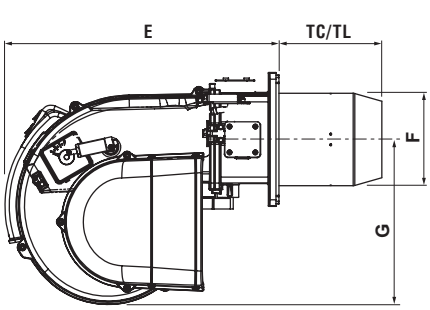
TECNO 12/2 BLU
TECNO 12/2 L BLU

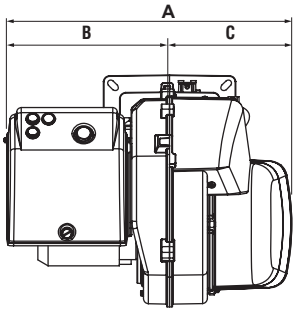


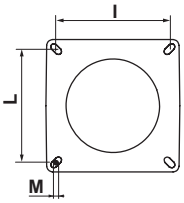
TECNO 15/2 BLU | TECNO 15/2 L BLU
TECNO 25/2 BLU | TECNO 25/2 L BLU



TECNO 35/2 BLU | TECNO 35/2 L BLU | TECNO 50/2 BLU | TECNO 50/2 L BLU





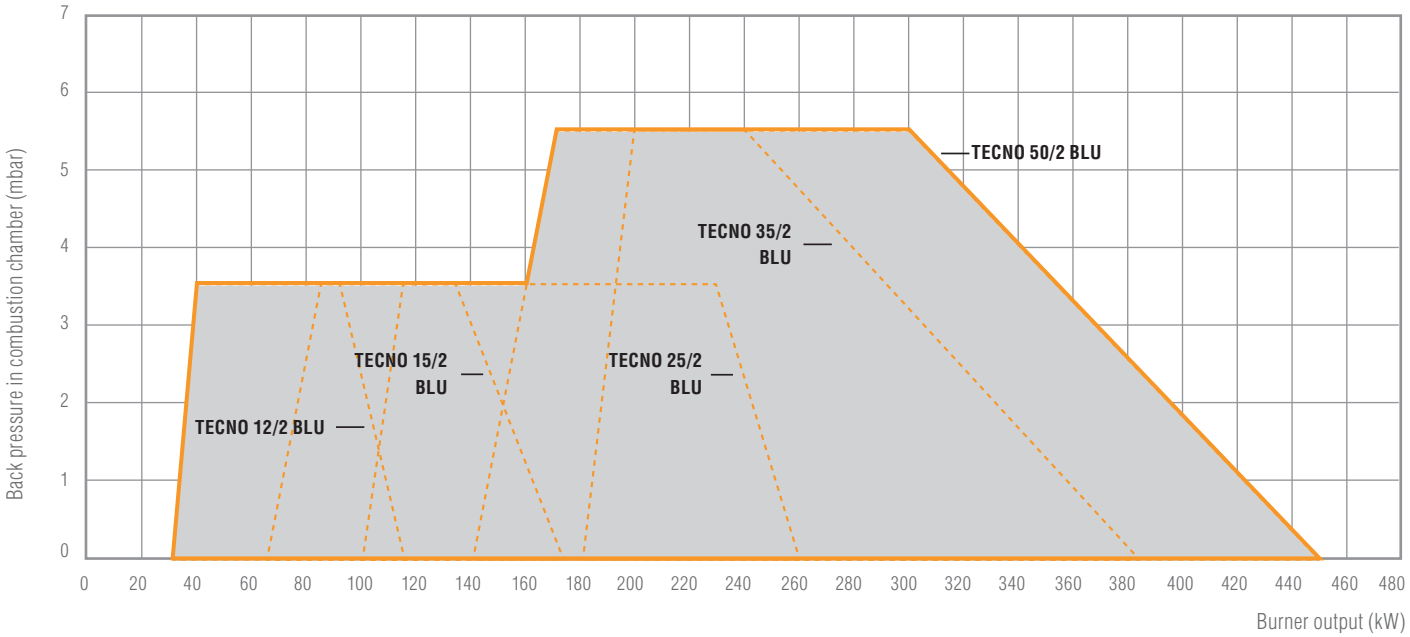


Model	Dimension (mm)										
	A	B	C	E	TC	TL	F	G	I	L	M
TECNO 12/2 BLU	317	169	148	204	100	-	98	160	100/120	100/120	M8
TECNO 12/2 L BLU	317	169	148	204	-	170	98	160	100/120	100/120	M8
TECNO 15/2 BLU	392	202	190	276	160	-	107	201	120/131	120/131	M8
TECNO 15/2 L BLU	392	202	190	276	-	260	107	201	120/131	120/131	M8
TECNO 25/2 BLU	392	202	190	276	160	-	125	201	120/131	120/131	M8
TECNO 25/2 L BLU	392	202	190	276	-	260	125	201	120/131	120/131	M8
TECNO 35/2 BLU	501	207	207	466	175	-	160	280	185/200	185/200	M8
TECNO 35/2 L BLU	501	207	207	466	-	365	160	280	185/200	185/200	M8
TECNO 50/2 BLU	501	207	207	466	175	-	160	280	185/200	185/200	M8
TECNO 50/2 L BLU	501	207	207	466	-	365	160	280	185/200	185/200	M8

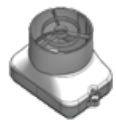
TECNO/2 BLU SERIES BOILER AND OIL BURNER MATCHING

Boiler				Oil burner		
Model	Code	Output - kW	Back pressure - mbar	Model	Code	Operating
PREXTHERM RWS 92 N	**0QIJ3AXA**	99,5	0,5	TECNO 12/2 L BLU	**0UEBCGXA**	TWO-STAGE
PREXTHERM RWS 152 N	**0QIJ4AXA**	116	0,7	TECNO 15/2 L BLU	**0UEBEGXA**	TWO-STAGE
PREXTHERM RWS 240 N	**0QIJ6AXA**	165	1,2	TECNO 25/2 L BLU	**0UEBFGXA**	TWO-STAGE
PREXTHERM RSW 190N	**0QIJ7AXA**	206	1,2	TECNO 25/2 L BLU	**0UEBFGXA**	TWO-STAGE
PREXTHERM RSW 240N	**0QIJ8AXA**	261	2,3	TECNO 35/2 L BLU	**0UEBGGXA**	TWO-STAGE
PREXTHERM RSW 300N	**0QIJ9AXA**	326	3,3	TECNO 50/2 L BLU	**0UEBHGXA**	TWO-STAGE
PREX H 3 COND 65	**0RGZ3AXD**	61,3	0,4	TECNO 8 BLU	**0UEM9DXA**	ONE-STAGE
				TECNO 8 R BLU	**0UEM9KXA**	ONE-STAGE
				TECNO 12/2 BLU	**0UEBCDXA**	TWO-STAGE
PREX H 3 COND 100	**0RGZ4AXD**	94,3	0,65	TECNO 8 BLU	**0UEM9DXA**	ONE-STAGE
				TECNO 8 R BLU	**0UEM9KXA**	ONE-STAGE
				TECNO 12/2 BLU	**0UEBCDXA**	TWO-STAGE
PREX H 3 COND 150	**0RGZ5AXD**	141,5	1,7	TECNO 15/2 BLU	**0UEBEDXA**	TWO-STAGE
PREX H 3 COND 230	**0RGZ8AXD**	217	1,7	TECNO 25/2 BLU	**0UEBFDXA**	TWO-STAGE
PREX H 3 COND 370	**0RGZBAXD**	349,1	2	TECNO 50/2 BLU	**0UEBHDXA**	TWO-STAGE

WORKING DIAGRAMS (working area are the same for TC/TL models)



EXTERNAL AIR INTAKE KIT

	KIT SNORKEL		BURNER	
	Code	Description	Description	Code
	**094643X0**	External air intake kit D. 60 mm	TECNO 4 BLU	0UEM7DXA
			TECNO 4 R BLU	0UEM7KXA
			TECNO 8 BLU	0UEM9DXA
			TECNO 8 R BLU	0UEM9KXA
			TECNO 12/2 BLU	0UEBCDXA
			TECNO 12/2 L BLU	0UEBCGXA
	**094644X0**	External air intake kit D. 80 mm	TECNO 4 BLU	0UEM7DXA
			TECNO 4 R BLU	0UEM7KXA
			TECNO 8 BLU	0UEM9DXA
			TECNO 8 R BLU	0UEM9KXA
			TECNO 12/2 BLU	0UEBCDXA
			TECNO 12/2 L BLU	0UEBCGXA

BOOSTER

ONE STAGE
GAS BURNERS



- One stage gas burner from 17 kW up to 350 kW
- All models of the series are certificated in class 5 (≤56 mg/kWh) in according with the ErP Directive
- BOOSTER series can be operated with natural gas or LPG by using the dedicated kit
- All the burners are set at the end of the production line for the safe first start
- The models 4 E / 7 E / 10 E / 12 E can be electrically powered at 50 and 60 Hz
- Every burner is available with two different combustion head lenghts and one or more gas train to optimize the combination with the burner depending on the inlet gas pressure
- Two combustion head lenghts and the high-pressure fan guarantee a wide working range for easy matching with several types of combustion chambers
- Burners are supplied as standard with: Fixing flange and screws / Insulation flange gasket / 7-pin connector (up to mod. 25) / Instructions manual

The BOOSTER series complies with:
014/35/UE Low Voltage Directive
2014/30/UE EMC Directive
(EU) 2016/426 Gas Appliance Regulation
2006/42/EC Machine Directive
2011/65/UE RoHS2 Directive + 2015/863/UE (Delegated Directive)
EN 676:2020
EN 50156-1: 2024
EN IEC 55014-1: 2021
EN IEC 55014-2: 2021
EN 60335-1: 2024-04
EN 60335-2-102: 2016
EN IEC 61000-6-2: 2019
EN IEC 61000-6-3: 2019

Accessories
Dedicated page below

Description	Head	Class Nox *	Operation	Burner output (kW)		Power supply	Motor	Burner code
				Min	Max	Phase/V/Hz	W	
BOOSTER 4 - E	TC	5	One stage	17	46	1/230/50-60	75	**0UEM7AXA**
BOOSTER 4 L - E	TL	5	One stage	17	46	1/230/50-60	75	**0UEM7BXA**
BOOSTER 7 - E	TC	5	One stage	30	70	1/230/50-60	75	**0UEM9AXA**
BOOSTER 7 L - E	TL	5	One stage	30	70	1/230/50-60	75	**0UEM9BXA**
BOOSTER 10 - E	TC	5	One stage	45	110	1/230/50-60	75	**0UEMBAXA**
BOOSTER 10 L - E	TL	5	One stage	45	110	1/230/50-60	75	**0UEMBBXA**
BOOSTER 12 - E	TC	5	One stage	60	120	1/230/50-60	75	**0UEMCAXA**
BOOSTER 12 L - E	TL	5	One stage	60	120	1/230/50-60	75	**0UEMCBXA**
BOOSTER 17 - E	TC	5	One stage	85	170	1/230/50	200	**0UEMEAXA**
BOOSTER 17 L - E	TL	5	One stage	85	170	1/230/50	200	**0UEMEBXA**
BOOSTER 25 - E	TC	5	One stage	85	240	1/230/50	200	**0UEMFAXA**
BOOSTER 25 L - E	TL	5	One stage	85	240	1/230/50	200	**0UEMFBXA**
BOOSTER 35 - E	TC	5	One stage	200	350	1/230/50	300	**0UEMGAXA**
BOOSTER 35 L - E	TL	5	One stage	200	350	1/230/50	300	**0UEMGBXA**

NB: ** Class 5 - NOx ≤ 56 mg/kWh (in compliance with EN 676 European standard) -* ***TC*** *- Short head /* ***TL*** *- Long head*

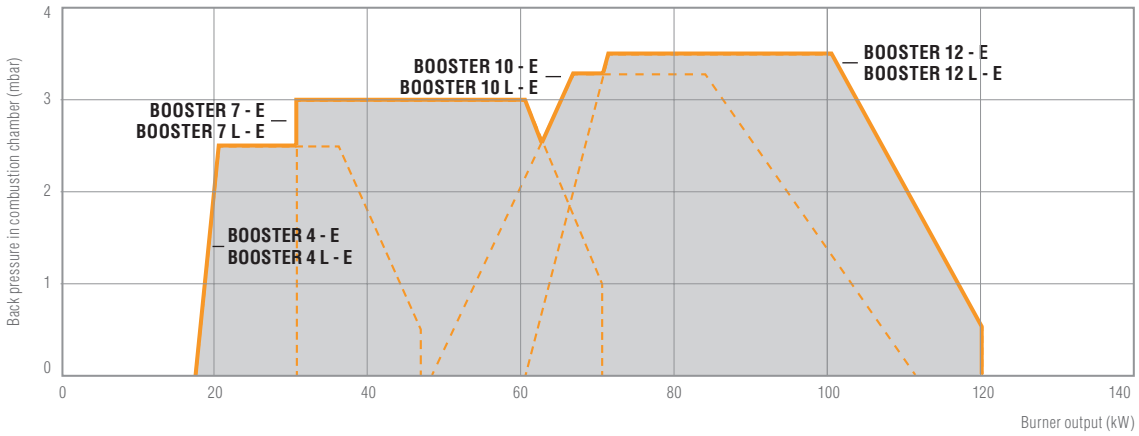
NATURAL GAS / LPG MATCHING GAS TRAIN

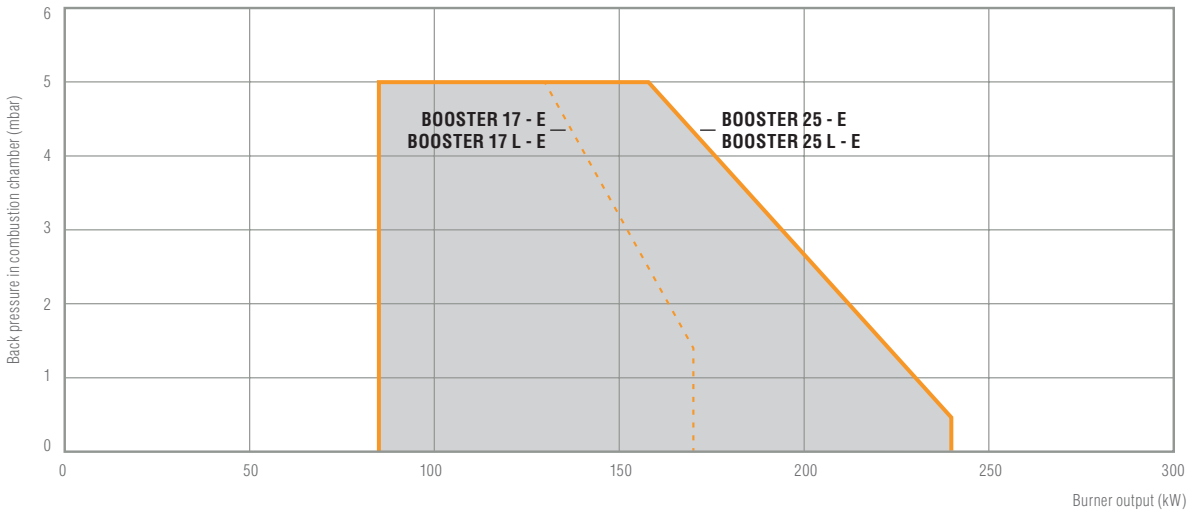
NATURAL GAS							
Burner		Gas supply		Gas train (natural gas)			
Description	Code	Min gas pressure (mbar)	Max gas pressure (mbar)	Description	Connection	Code	Connection pipe code
BOOSTER 4 - E	OUEM7AXA	13	65	GAS TRAIN MBC 65 DLE	1/2	094557X0	
BOOSTER 4 L - E	OUEM7BXA	13	65	GAS TRAIN MBC 65 DLE	1/2	094557X0	
BOOSTER 7 - E	OUEM9AXA	22	65	GAS TRAIN MBC 65 DLE	1/2	094557X0	
BOOSTER 7 L - E	OUEM9BXA	22	65	GAS TRAIN MBC 65 DLE	1/2	094557X0	
BOOSTER 7 - E	OUEM9AXA	15	360	GAS TRAIN MBC 120 DLE	3/4	094558X0	
BOOSTER 7 L - E	OUEM9BXA	15	360	GAS TRAIN MBC 120 DLE	3/4	094558X0	
BOOSTER 10 - E	OUEMBAXA	38	65	GAS TRAIN MBC 65 DLE	1/2	094557X0	
BOOSTER 10 L - E	OUEMBBXA	38	65	GAS TRAIN MBC 65 DLE	1/2	094557X0	
BOOSTER 10 - E	OUEMBAXA	23	360	GAS TRAIN MBC 120 DLE	3/4	094558X0	
BOOSTER 10 L - E	OUEMBBXA	23	360	GAS TRAIN MBC 120 DLE	3/4	094558X0	
BOOSTER 10 - E	OUEMBAXA	17	360	GAS TRAIN MB-DLE 407	3/4	094612X0	
BOOSTER 10 L - E	OUEMBBXA	17	360	GAS TRAIN MB-DLE 407	3/4	094612X0	
BOOSTER 12 - E	OUEMCAXA	46	65	GAS TRAIN MBC 65 DLE	1/2	094557X0	
BOOSTER 12 L - E	OUEMCBXA	46	65	GAS TRAIN MBC 65 DLE	1/2	094557X0	
BOOSTER 12 - E	OUEMCAXA	26	360	GAS TRAIN MBC 120 DLE	3/4	094558X0	
BOOSTER 12 L - E	OUEMCBXA	26	360	GAS TRAIN MBC 120 DLE	3/4	094558X0	
BOOSTER 12 - E	OUEMCAXA	19	360	GAS TRAIN MB-DLE 407	3/4	094612X0	
BOOSTER 12 L - E	OUEMCBXA	19	360	GAS TRAIN MB-DLE 407	3/4	094612X0	
BOOSTER 17 - E	OUEMEAXA	26	360	GAS TRAIN MB-DLE 405	3/4	094575X0	094580X0
BOOSTER 17 L - E	OUEMEBXA	26	360	GAS TRAIN MB-DLE 405	3/4	094575X0	094580X0
BOOSTER 17 - E	OUEMEAXA	13	360	GAS TRAIN MB-DLE 410	1	094560X0	
BOOSTER 17 L - E	OUEMEBXA	13	360	GAS TRAIN MB-DLE 410	1	094560X0	
BOOSTER 25 - E	OUEMFAXA	40	360	GAS TRAIN MB-DLE 405	3/4	094575X0	094580X0
BOOSTER 25 L - E	OUEMFBXA	40	360	GAS TRAIN MB-DLE 405	3/4	094575X0	094580X0
BOOSTER 25 - E	OUEMFAXA	15	360	GAS TRAIN MB-DLE 412	1 1/4	094561X0	
BOOSTER 25 L - E	OUEMFBXA	15	360	GAS TRAIN MB-DLE 412	1 1/4	094561X0	
BOOSTER 35 - E	OUEMGAXA	17	360	GAS TRAIN MB-DLE 415	1 1/2	094564X0	
BOOSTER 35 L - E	OUEMGBXA	17	360	GAS TRAIN MB-DLE 415	1 1/2	094564X0	

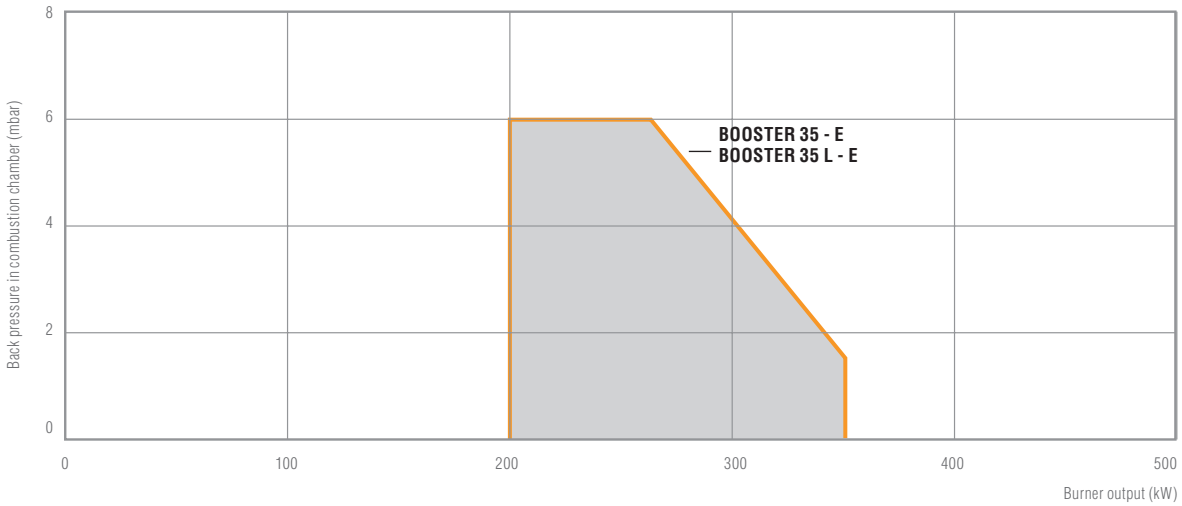
** For the correct selection of the gas train, the backpressure in the combustion chamber must be subtracted from the values indicated in the table (which refer to the minimum and maximum working pressure of the gas trains).*

LPG						
Burner		Gas train (LPG)				
Description	Code	Description	Connection	Code	Kit LPG code	Adapter kit code
BOOSTER 4 - E	OUEM7AXA	MBC 65 DLE	1/2	094557X0	094584X0	
BOOSTER 4 L - E	OUEM7BXA	MBC 65 DLE	1/2	094557X0	094584X0	
BOOSTER 7 - E	OUEM9AXA	MBC 65 DLE	1/2	094557X0	094584X0	
BOOSTER 7 L - E	OUEM9BXA	MBC 65 DLE	1/2	094557X0	094584X0	
BOOSTER 10 - E	OUEMBAXA	MBC 65 DLE	1/2	094557X0	094584X0	
BOOSTER 10 L - E	OUEMBBXA	MBC 65 DLE	1/2	094557X0	094584X0	
BOOSTER 12 - E	OUEMCAXA	MBC 65 DLE	1/2	094557X0	094584X0	
BOOSTER 12 L - E	OUEMCBXA	MBC 65 DLE	1/2	094557X0	094584X0	
BOOSTER 17 - E	OUEMEAXA	MB-DLE 405	3/4	094575X0		094580X0
BOOSTER 17 L - E	OUEMEBXA	MB-DLE 405	3/4	094575X0		094580X0
BOOSTER 25 - E	OUEMFAXA	MB-DLE 405	3/4	094575X0		094580X0
BOOSTER 25 L - E	OUEMFBXA	MB-DLE 405	3/4	094575X0		094580X0
BOOSTER 35 - E	OUEMGAXA	MB-DLE 407	3/4	094576X0	094586X0	
BOOSTER 35 L - E	OUEMGBXA	MB-DLE 407	3/4	094576X0	094586X0	

WORKING DIAGRAM

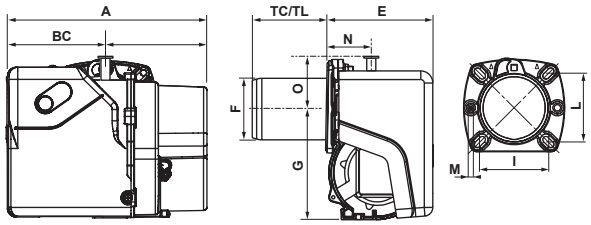




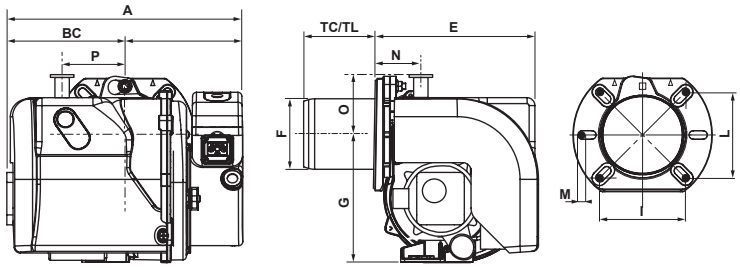


DIMENSIONS

BOOSTER 4 - E

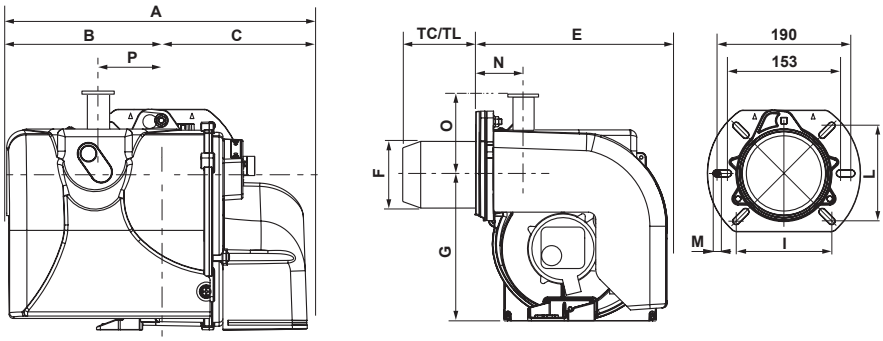


BOOSTER 7 - E | BOOSTER 10 - E | BOOSTER 12 - E



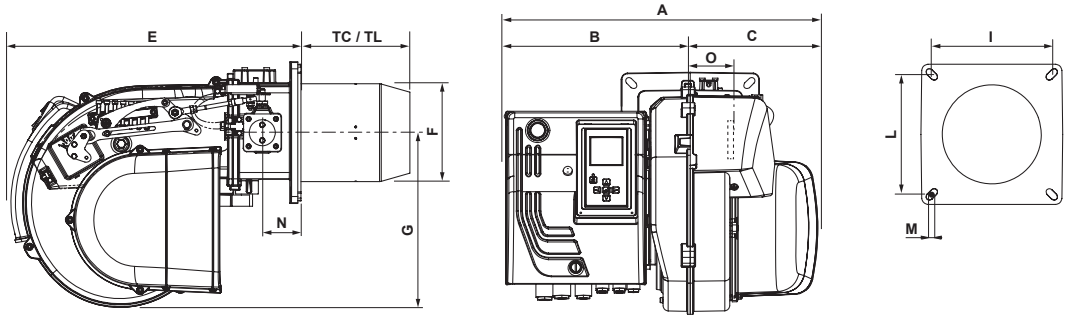
Model	A	B	C	TC	TL	E	F	G	I	L	M	N	O	P
BOOSTER 4 - E / BOOSTER 4 L - E	288	143	145	85	185	153	89	160	92/107	92/107	M8	54	73	-
BOOSTER 7 - E / BOOSTER 7 L - E	303	155	148	85	185	204	89	160	100/120	100/120	M8	52	71	82
BOOSTER 10 - E / BOOSTER 10 L - E	317	169	148	140	220	204	89	160	100/120	100/120	M8	52	71	82
BOOSTER 12 - E / BOOSTER 12 L - E	317	169	148	160	240	204	98	160	100/120	100/120	M8	52	71	82

BOOSTER 17 - E | BOOSTER 25 - E



Model	A	B	C	TC	TL	E	F	G	I	L	M	N	O
BOOSTER 17 - E / BOOSTER 17 L - E	392	202	190	180	280	280	125	201	106/130	106/130	M8	73	104
BOOSTER 25 - E / BOOSTER 25 L - E	392	202	190	180	280	280	125	201	106/130	106/130	M8	73	104

BOOSTER 35 - E



Model	A	B	C	TC	TL	E	F	G	I	L	M	N	O
BOOSTER 35 - E / BOOSTER 35 L - E	485	277	208	175	335	466	157	280	185/200	185/200	M8	62	101

BOOSTER/2

TWO STAGE
GAS BURNERS



- Two stage gas burner from 30 kW up to 500 kW
- All models of the series are certificated in class 5 (≤ 56 mg/kWh) in according with the ErP Directive
- BOOSTER series can be operated with natural gas or LPG by using the dedicated kit
- All the burners are set at the end of the production line for the safe first start
- Models 10/2 - E can be electrically powered at 50 and 60 Hz
- Every burner is available with two different combustion head lenghts and one or more gas train to optimize the combination with the burner depending on the inlet gas pressure
- Two combustion head lenghts and the high-pressure fan guarantee a wide working range for easy matching with several types of combustion chambers
- Burners are supplied as standard with: Fixing flange and screws / Insulation flange gasket / 7-pin connector (up to mod. 25/2 E) / Instructions manual

The BOOSTER/2 series complies with:
014/35/UE Low Voltage Directive
2014/30/UE EMC Directive
(EU) 2016/426 Gas Appliance Regulation
2006/42/EC Machine Directive
2011/65/UE RoHS2 Directive + 2015/863/UE (Delegated Directive)
EN 676:2020
EN 50156-1: 2024
EN IEC 55014-1: 2021
EN IEC 55014-2: 2021
EN 60335-1: 2024-04
EN 60335-2-102: 2016
EN IEC 61000-6-2: 2019
EN IEC 61000-6-3: 2019

Accessories
Dedicated page below

Description	Head	Class Nox *	Operation	Burner output (kW)		Power supply	Motor	Burner code
				Min	Max	Phase/V/Hz	W	
BOOSTER 10/2 - E	TC	5	Two stage	22	110	1/230/50-60	75	**0UEBBAXA**
BOOSTER 10/2 L - E	TL	5	Two stage	22	110	1/230/50-60	75	**0UEBBBXA**
BOOSTER 17/2 - E	TC	5	Two stage	60	170	1/230/50	200	**0UEBEAXA**
BOOSTER 17/2 L - E	TL	5	Two stage	60	170	1/230/50	200	**0UEBEBXA**
BOOSTER 25/2 - E	TC	5	Two stage	60	240	1/230/50	200	**0UEBFAXA**
BOOSTER 25/2 L - E	TL	5	Two stage	60	240	1/230/50	200	**0UEBFBXA**
BOOSTER 40/2 - E	TC	5	Two stage	100	400	1/230/50	370	**0UEBHAXA**
BOOSTER 40/2 L - E	TL	5	Two stage	100	400	1/230/50	370	**0UEBHBXA**
BOOSTER 50/2 - E	TC	5	Two stage	120	500	3/230-400/50	550	**0UEBIAXA**
BOOSTER 50/2 L - E	TL	5	Two stage	120	500	3/230-400/50	550	**0UEBIBXA**

*NB: * Class 5 - NOx ≤ 56 mg/kWh (in compliance with EN 676 European standard) - * Class 3 - NOx ≤ 80 mg/kWh (in compliance with EN 676 European standard) - **TC** - Short head / **TL** - Long head*

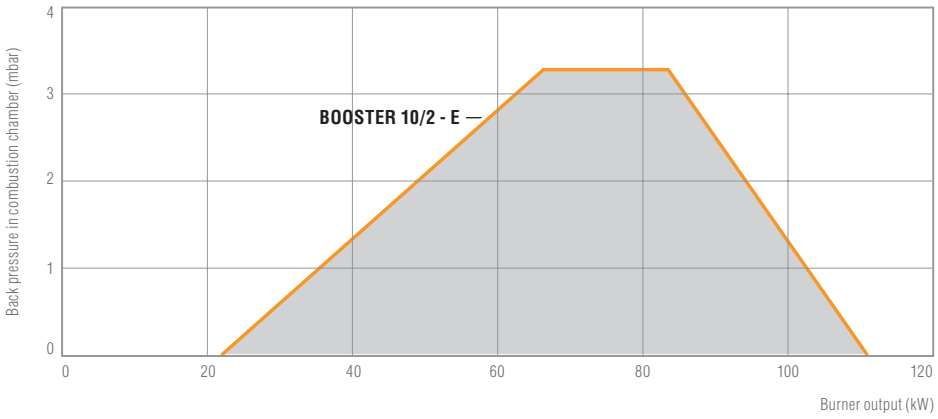
NATURAL GAS / LPG MATCHING GAS TRAIN

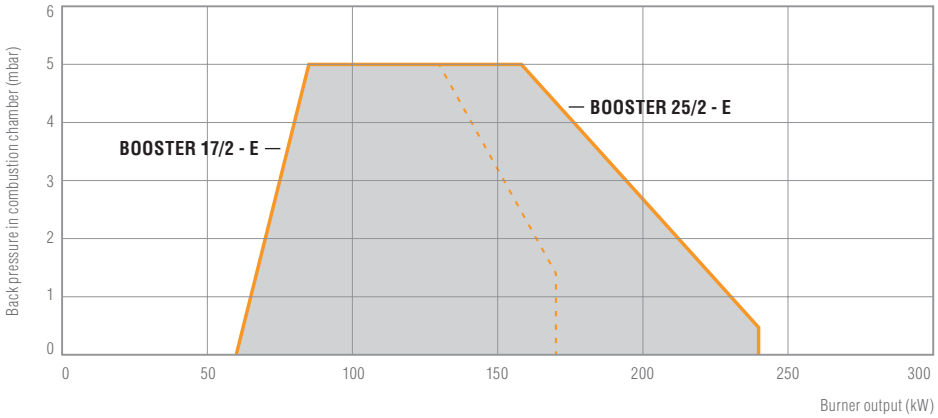
NATURAL GAS							
Burner		Gas supply		Gas train (natural gas)			
Description	Code	Min gas pressure (mbar)	Max gas pressure (mbar)	Description	Connection	Code	Connection pipe code
BOOSTER 10/2 - E	OUEBBAXA	16	360	GAS TRAIN MB-ZRDLE 405	3/4	094565X0	
BOOSTER 10/2 L - E	OUEBBBXA	16	360	GAS TRAIN MB-ZRDLE 405	3/4	094565X0	
BOOSTER 17/2 - E	OUEBEAXA	26	360	GAS TRAIN MB-ZRDLE 405	3/4	094565X0	094580X0
BOOSTER 17/2 L - E	OUEBEBXA	26	360	GAS TRAIN MB-ZRDLE 405	3/4	094565X0	094580X0
BOOSTER 17/2 - E	OUEBEAXA	13	360	GAS TRAIN MB-ZRDLE 410	1	094566X0	
BOOSTER 17/2 L - E	OUEBEBXA	13	360	GAS TRAIN MB-ZRDLE 410	1	094566X0	
BOOSTER 25/2 - E	OUEBFAXA	40	360	GAS TRAIN MB-ZRDLE 405	3/4	094565X0	094580X0
BOOSTER 25/2 L - E	OUEBFBXA	40	360	GAS TRAIN MB-ZRDLE 405	3/4	094565X0	094580X0
BOOSTER 25/2 - E	OUEBFAXA	17	360	GAS TRAIN MB-ZRDLE 410	1	094566X0	
BOOSTER 25/2 L - E	OUEBFBXA	17	360	GAS TRAIN MB-ZRDLE 410	1	094566X0	
BOOSTER 40/2 - E	OUEBHAXA	55	360	GAS TRAIN MB-DLE 410	1	094562X0	
BOOSTER 40/2 L - E	OUEBHBXA	55	360	GAS TRAIN MB-DLE 410	1	094562X0	
BOOSTER 40/2 - E	OUEBHAXA	35	360	GAS TRAIN MB-DLE 412	1 1/4	094563X0	
BOOSTER 40/2 L - E	OUEBHBXA	35	360	GAS TRAIN MB-DLE 412	1 1/4	094563X0	
BOOSTER 40/2 - E	OUEBHAXA	20	360	GAS TRAIN MB-DLE 415	1 1/2	094564X0	
BOOSTER 40/2 L - E	OUEBHBXA	20	360	GAS TRAIN MB-DLE 415	1 1/2	094564X0	
BOOSTER 50/2 - E	OUEBIAXA	55	360	GAS TRAIN MB-DLE 410	1	094562X0	
BOOSTER 50/2 L - E	OUEBIBXA	55	360	GAS TRAIN MB-DLE 410	1	094562X0	
BOOSTER 50/2 - E	OUEBIAXA	35	360	GAS TRAIN MB-DLE 412	1 1/4	094563X0	
BOOSTER 50/2 L - E	OUEBIBXA	35	360	GAS TRAIN MB-DLE 412	1 1/4	094563X0	
BOOSTER 50/2 - E	OUEBIAXA	20	360	GAS TRAIN MB-DLE 415	1 1/2	094564X0	
BOOSTER 50/2 L - E	OUEBIBXA	20	360	GAS TRAIN MB-DLE 415	1 1/2	094564X0	

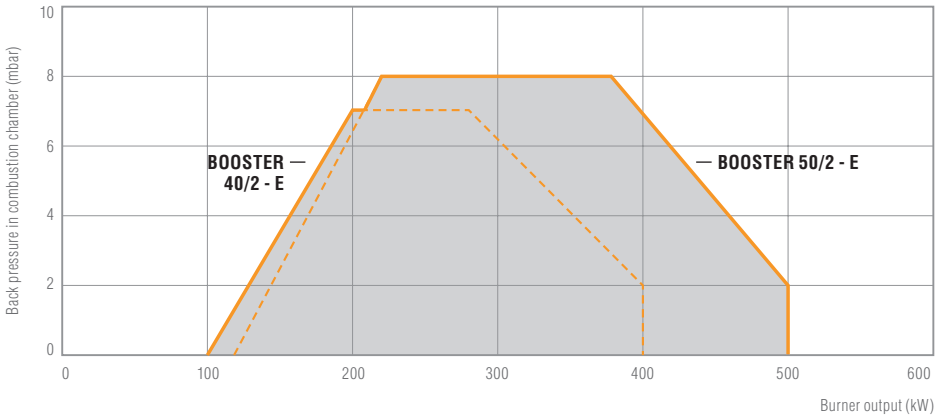
** For the correct selection of the gas train, the backpressure in the combustion chamber must be subtracted from the values indicated in the table (which refer to the minimum and maximum working pressure of the gas trains).*

LPG						
Burner		Gas train (LPG)				
Description	Code	Description	Connection	Code	Kit LPG code	Adapter kit code
BOOSTER 10/2 - E	OUEBBAXA	MB-ZRDLE 405	3/4	094565X0	094584X0	
BOOSTER 10/2 L - E	OUEBBBXA	MB-ZRDLE 405	3/4	094565X0	094584X0	
BOOSTER 17/2 - E	OUEBEAXA	MB-ZRDLE 405	3/4	094565X0		094580X0
BOOSTER 17/2 L - E	OUEBEBXA	MB-ZRDLE 405	3/4	094565X0		094580X0
BOOSTER 25/2 - E	OUEBFAXA	MB-ZRDLE 405	3/4	094565X0		094580X0
BOOSTER 25/2 L - E	OUEBFBXA	MB-ZRDLE 405	3/4	094565X0		094580X0
BOOSTER 40/2 - E	OUEBHAXA	MB-DLE 407	3/4	094576X0	094586X0	
BOOSTER 40/2 L - E	OUEBHBXA	MB-DLE 407	3/4	094576X0	094586X0	
BOOSTER 50/2 - E	OUEBIAXA	MB-DLE 407	3/4	094576X0	094586X0	
BOOSTER 50/2 L - E	OUEBIBXA	MB-DLE 407	3/4	094576X0	094586X0	

WORKING DIAGRAM

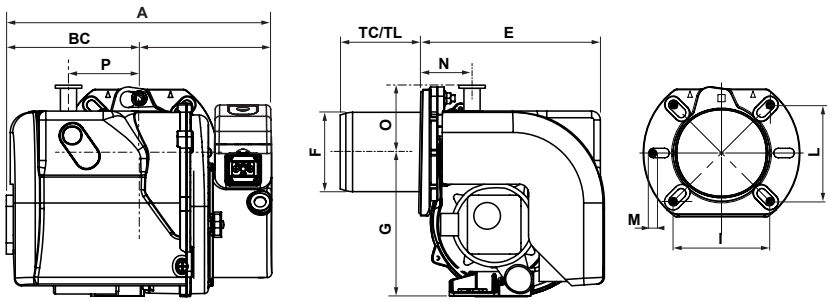






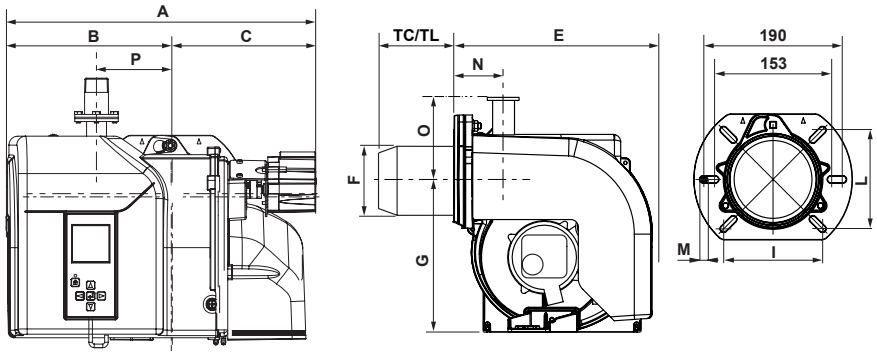
DIMENSIONS

BOOSTER 10/2 - E | BOOSTER 10/2 L - E



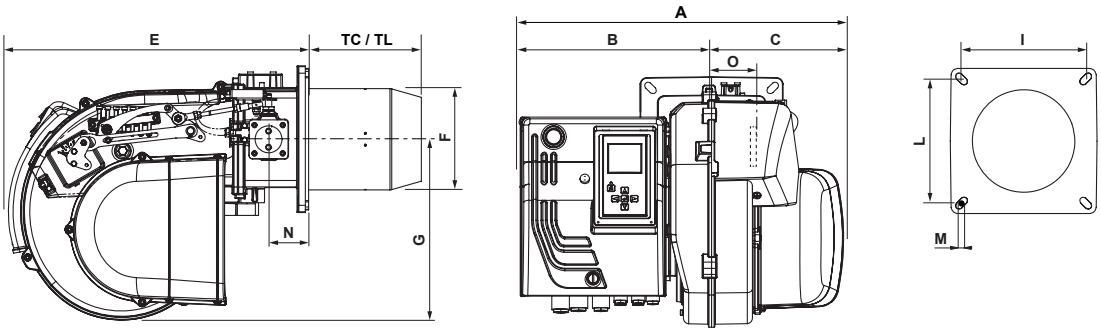
Model	A	B	C	TC	TL	E	F	G	I	L	M	N	O	P
BOOSTER 10/2 - E	317	169	148	140	-	204	89	160	100/120	100/120	M8	52	71	82
BOOSTER 10/2 L - E	317	169	148	-	220	204	89	160	100/120	100/120	M8	52	71	82

BOOSTER 17/2 - E | BOOSTER 17/2 L - E | BOOSTER 25/2 - E | BOOSTER 25/2 L - E



Model	A	B	C	TC	TL	E	F	G	I	L	M	N	O	P
BOOSTER 17/2 - E	452	202	250	180	-	280	125	201	106/130	106/130	M8	73	110	104
BOOSTER 17/2 L - E	452	202	250	-	280	280	125	201	106/130	106/130	M8	73	110	104
BOOSTER 25/2 - E	452	202	250	180	-	280	125	201	106/130	106/130	M8	73	110	104
BOOSTER 25/2 L - E	452	202	250	-	280	280	125	201	106/130	106/130	M8	73	110	104

BOOSTER 40/2 - E | BOOSTER 40/2 L - E | BOOSTER 50/2 - E | BOOSTER 50/2 L - E



Model	A	B	C	TC	TL	E	F	G	I	L	M	N	O
BOOSTER 40/2 - E	485	277	208	175	-	466	157	280	185/200	185/200	M8	62	101
BOOSTER 40/2 L - E	485	277	208	-	335	466	157	280	185/200	185/200	M8	62	101
BOOSTER 50/2 - E	485	277	208	175	-	466	157	280	185/200	185/200	M8	62	101
BOOSTER 50/2 L - E	485	277	208	-	335	466	157	280	185/200	185/200	M8	62	101

BOOSTER/PR

PROGRESSIVE GAS BURNERS





- Progressive gas burner from 120 kW up to 2200 kW
- The air/gas ratio during the transition from the first to second stage, controlled by a mechanically controlled cam
- The burner can be turned into modulator using the RWF series electronic controller (supplied as accessory)
- All models of the series are certificated in class 3 (≤ 80 mg/kWh) in according with the ErP Directive (mod. 50 is certificated Class 5 - ≤ 56 mg/kWh)
- BOOSTER series can be operated with natural gas or LPG by using the dedicated kit
- All the burners are set at the end of the production line for the safe first start
- Every burner is available with two different combustion head lenghts and one or more gas train to optimize the combination with the burner depending on the inlet gas pressure
- Two combustion head lenghts and the high-pressure fan guarantee a wide working range for easy matching with several types of combustion chambers
- Burners are supplied as standard with: Fixing flange and screws / Insulation flange gasket / Instructions manual

The BOOSTER/PR series complies with:

014/35/UE Low Voltage Directive
2014/30/UE EMC Directive
(EU) 2016/426 Gas Appliance Regulation
2006/42/EC Machine Directive
2011/65/UE RoHS2 Directive + 2015/863/UE (Delegated Directive)
EN 676:2020
EN 50156-1: 2024
EN IEC 55014-1: 2021
EN IEC 55014-2: 2021
EN 60335-1: 2024-04
EN 60335-2-102: 2016
EN IEC 61000-6-2: 2019
EN IEC 61000-6-3: 2019

Accessories

Dedicated page below

Description	Head	Class Nox *	Operation	Burner output (kW)		Power supply	Motor	Burner code
				Min	Max	Phase/V/Hz	W	
BOOSTER 50/PR - E	TC	5	Progressive	120	500	3/230-400/50	550	**0UEPIAXA**
BOOSTER 50/PR L - E	TL	5	Progressive	120	500	3/230-400/50	550	**0UEPIBXA**
BOOSTER 70/PR	TC	3	Progressive	200	700	3/230-400/50	1100	**0UEPKAXA**
BOOSTER 70/PR L	TL	3	Progressive	200	700	3/230-400/50	1100	**0UEPKBXA**
BOOSTER 100/PR	TC	3	Progressive	280	875	3/230-400/50	1100	**0UEPLAXA**
BOOSTER 100/PR L	TL	3	Progressive	280	875	3/230-400/50	1100	**0UEPLBXA**
BOOSTER 120/PR	TC	3	Progressive	290	1100	3/230-400/50	2200	**0UEPNAXA**
BOOSTER 120/PR L	TL	3	Progressive	290	1100	3/230-400/50	2200	**0UEPNBXA**
BOOSTER 150/PR	TC	3	Progressive	350	1600	3/230-400/50	2200	**0UEPPAXA**
BOOSTER 150/PR L	TL	3	Progressive	350	1600	3/230-400/50	2200	**0UEPPBXA**
BOOSTER 200/PR	TC	3	Progressive	320	2200	3/230-400/50	3000	**0UEPQAXA**
BOOSTER 200/PR L	TL	3	Progressive	320	2200	3/230-400/50	3000	**0UEPQBXA**

NB: ** Class 5 - NOx ≤ 56 mg/kWh (in compliance with EN 676 European standard) - * Class 3 - NOx ≤ 80 mg/kWh (in compliance with EN 676 European standard) -* ***TC*** *- Short head /* ***TL*** *- Long head*

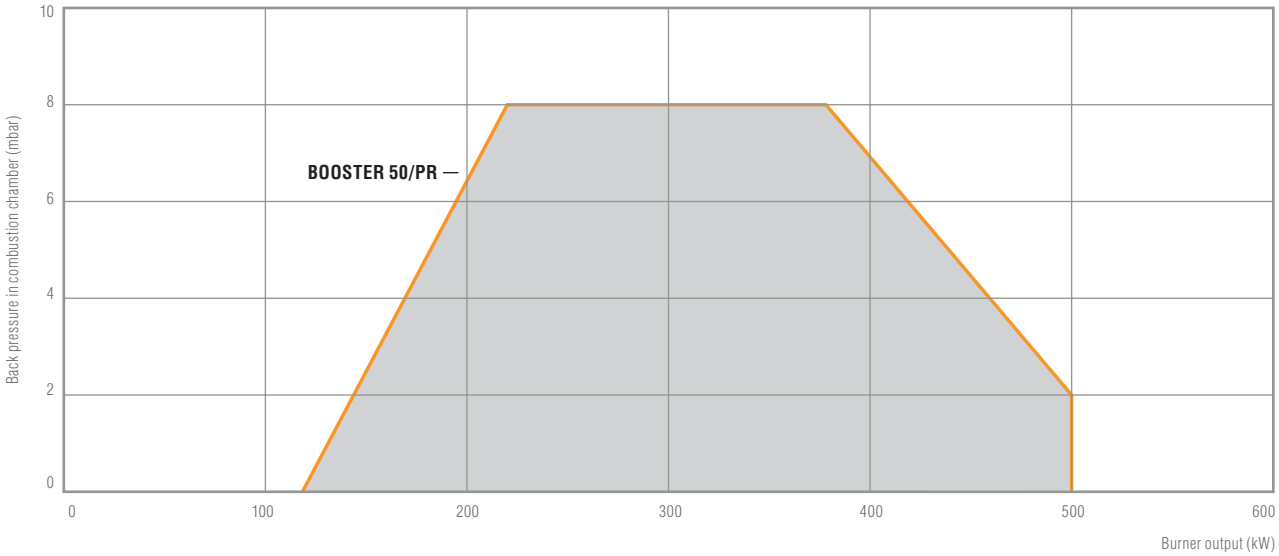
NATURAL GAS / LPG MATCHING GAS TRAIN

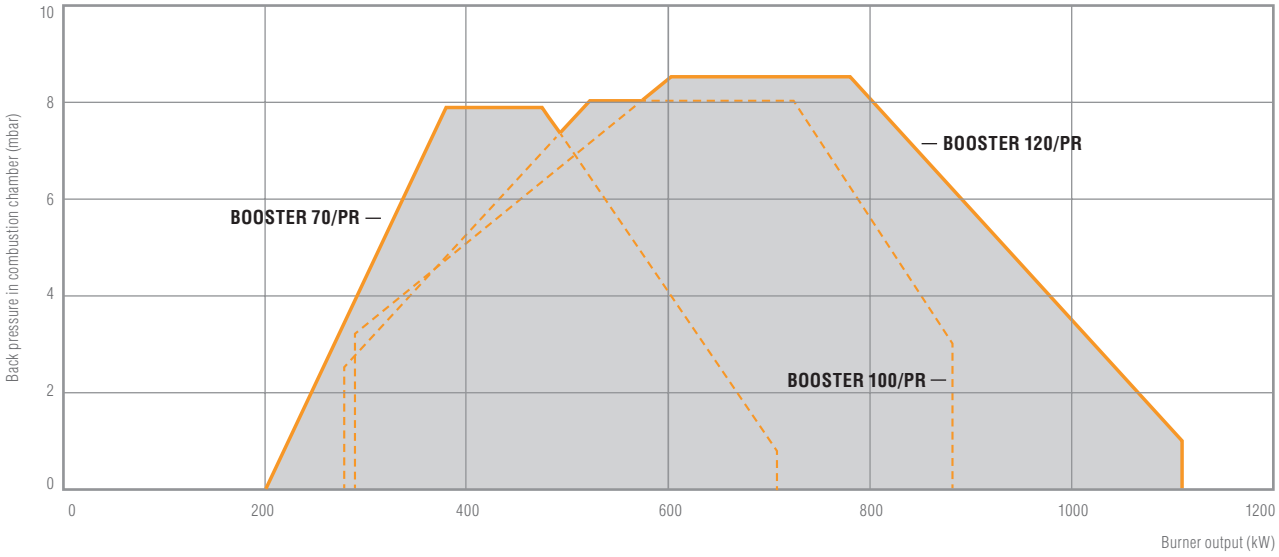
NATURAL GAS								
Burner		Gas supply		Gas train (natural gas)				
Description	Code	Min gas pressure (mbar)	Max gas pressure (mbar)	Description	Connection	Code	Connection pipe code	Gas filter code
BOOSTER 50/PR - E	OUEPIAXA	55	360	GAS TRAIN MB-DLE 410	1	094562X0		
BOOSTER 50/PR L - E	OUEPIBXA	55	360	GAS TRAIN MB-DLE 410	1	094562X0		
BOOSTER 50/PR - E	OUEPIAXA	35	360	GAS TRAIN MB-DLE 412	1 1/4	094563X0		
BOOSTER 50/PR L - E	OUEPIBXA	35	360	GAS TRAIN MB-DLE 412	1 1/4	094563X0		
BOOSTER 50/PR - E	OUEPIAXA	20	360	GAS TRAIN MB-DLE 415	1 1/2	094564X0		
BOOSTER 50/PR L - E	OUEPIBXA	20	360	GAS TRAIN MB-DLE 415	1 1/2	094564X0		
BOOSTER 70/PR	OUEPKAXA	60	360	GAS TRAIN MB-DLE 410	1	094562X0		
BOOSTER 70/PR L	OUEPKBXA	60	360	GAS TRAIN MB-DLE 410	1	094562X0		
BOOSTER 70/PR	OUEPKAXA	40	360	GAS TRAIN MB-DLE 412	1,25	094563X0		
BOOSTER 70/PR L	OUEPKBXA	40	360	GAS TRAIN MB-DLE 412	1,25	094563X0		
BOOSTER 70/PR	OUEPKAXA	25	360	GAS TRAIN MB-DLE 415	1 1/4	094564X0		
BOOSTER 70/PR L	OUEPKBXA	25	360	GAS TRAIN MB-DLE 415	1 1/4	094564X0		
BOOSTER 100/PR	OUEPLAXA	75	360	GAS TRAIN MB-DLE 412	1 1/4	094569X0		
BOOSTER 100/PR L	OUEPLBXA	75	360	GAS TRAIN MB-DLE 412	1 1/4	094569X0		
BOOSTER 100/PR	OUEPLAXA	40	360	GAS TRAIN MB-DLE 415	1 1/2	094570X0		
BOOSTER 100/PR L	OUEPLBXA	40	360	GAS TRAIN MB-DLE 415	1 1/2	094570X0		
BOOSTER 100/PR	OUEPLAXA	35	360	GAS TRAIN MB-DLE 420	2	094571X0		
BOOSTER 100/PR L	OUEPLBXA	35	360	GAS TRAIN MB-DLE 420	2	094571X0		
BOOSTER 120/PR	OUEPNAXA	85	360	GAS TRAIN MB-DLE 412	1 1/4	094569X0		
BOOSTER 120/PR L	OUEPNBXA	85	360	GAS TRAIN MB-DLE 412	1 1/4	094569X0		
BOOSTER 120/PR	OUEPNAXA	45	360	GAS TRAIN MB-DLE 415	1 1/2	094570X0		
BOOSTER 120/PR L	OUEPNBXA	45	360	GAS TRAIN MB-DLE 415	1 1/2	094570X0		
BOOSTER 120/PR	OUEPNAXA	35	360	GAS TRAIN MB-DLE 420	2	094571X0		
BOOSTER 120/PR L	OUEPNBXA	35	360	GAS TRAIN MB-DLE 420	2	094571X0		
BOOSTER 120/PR	OUEPNAXA	20	500	GAS TRAIN VGD 20.503	2	094572X0		
BOOSTER 120/PR L	OUEPNBXA	20	500	GAS TRAIN VGD 20.503	2	094572X0		
BOOSTER 150/PR	OUEPPAXA	45	500	GAS TRAIN VGD 20.503	2	094604X0		094581X0
BOOSTER 150/PR L	OUEPPBXA	45	500	GAS TRAIN VGD 20.503	2	094604X0		094581X0
BOOSTER 150/PR	OUEPPAXA	20	500	GAS TRAIN VGD 40.080	DN65	094605X0	094607X0	094583X0
BOOSTER 150/PR L	OUEPPBXA	20	500	GAS TRAIN VGD 40.080	DN65	094605X0	094607X0	094583X0
BOOSTER 200/PR	OUEPQAXA	60	500	GAS TRAIN VGD 20.503	2	094604X0	094608X0	094581X0
BOOSTER 200/PR L	OUEPQBXA	60	500	GAS TRAIN VGD 20.503	2	094604X0	094608X0	094581X0
BOOSTER 200/PR	OUEPQAXA	35	500	GAS TRAIN VGD 40.080	DN65	094605X0	094609X0	094583X0
BOOSTER 200/PR L	OUEPQBXA	35	500	GAS TRAIN VGD 40.080	DN65	094605X0	094609X0	094583X0
BOOSTER 200/PR	OUEPQAXA	23	500	GAS TRAIN VGD 40.080	DN80	094606X0	094610X0	094582X0
BOOSTER 200/PR L	OUEPQBXA	23	500	GAS TRAIN VGD 40.080	DN80	094606X0	094610X0	094582X0

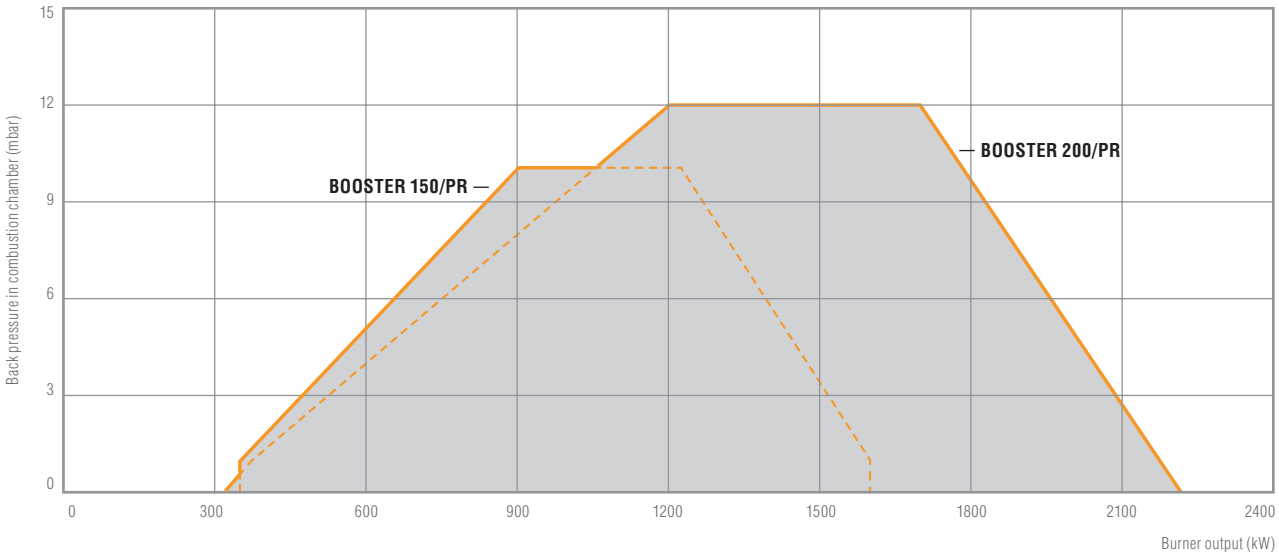
** For the correct selection of the gas train, the backpressure in the combustion chamber must be subtracted from the values indicated in the table (which refer to the minimum and maximum working pressure of the gas trains).*

LPG						
Burner		Gas train (LPG)				
Description	Code	Description	Connection	Code	Kit LPG code	Adapter kit code
BOOSTER 50/PR - E	OUEPIAXA	MB-DLE 407	3/4	094576X0	094586X0	
BOOSTER 50/PR L - E	OUEPIBXA	MB-DLE 407	3/4	094576X0	094586X0	
BOOSTER 70/PR	OUEPKAXA	MB-DLE 407	3/4	094576X0	094589X0	
BOOSTER 70/PR L	OUEPKBXA	MB-DLE 407	3/4	094576X0	094589X0	
BOOSTER 100/PR	OUEPLAXA	MB-DLE 412	1 1/4	094569X0	094587X0	
BOOSTER 100/PR L	OUEPLBXA	MB-DLE 412	1 1/4	094569X0	094587X0	
BOOSTER 120/PR	OUEPNAXA	MB-DLE 412	1 1/4	094569X0	094587X0	
BOOSTER 120/PR L	OUEPNBXA	MB-DLE 412	1 1/4	094569X0	094587X0	
BOOSTER 150/PR	OUEPPAXA	VGD 20.503	2	094604X0	094611X0	
BOOSTER 150/PR L	OUEPPBXA	VGD 20.503	2	094604X0	094611X0	
BOOSTER 200/PR	OUEPQAXA	VGD 20.503	2	094604X0	094588X0	094608X0
BOOSTER 200/PR L	OUEPQBXA	VGD 20.503	2	094604X0	094588X0	094608X0

WORKING DIAGRAM

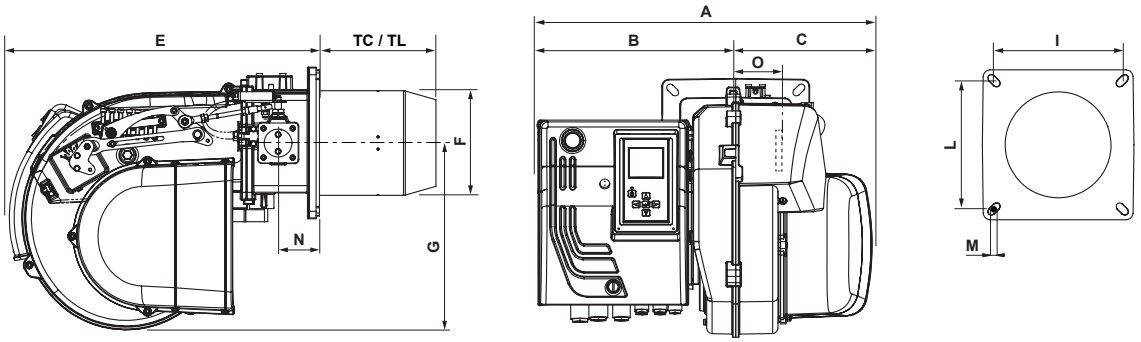






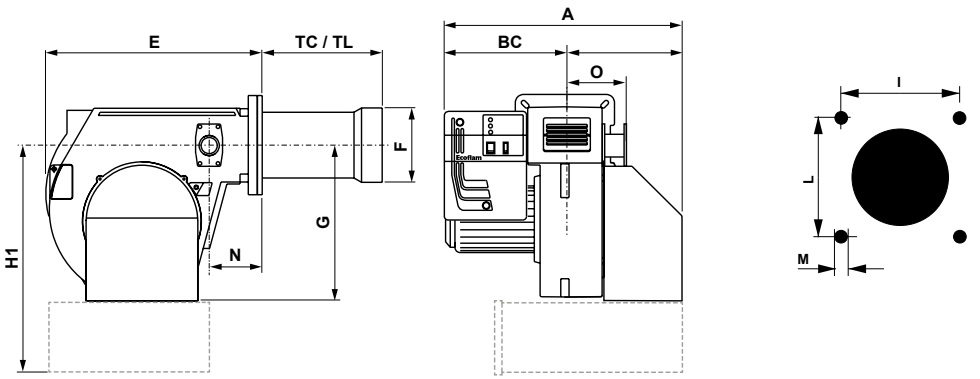
DIMENSIONS

BOOSTER 50/PR | BOOSTER 50 L/PR | BOOSTER 70/PR | BOOSTER 70 L/PR



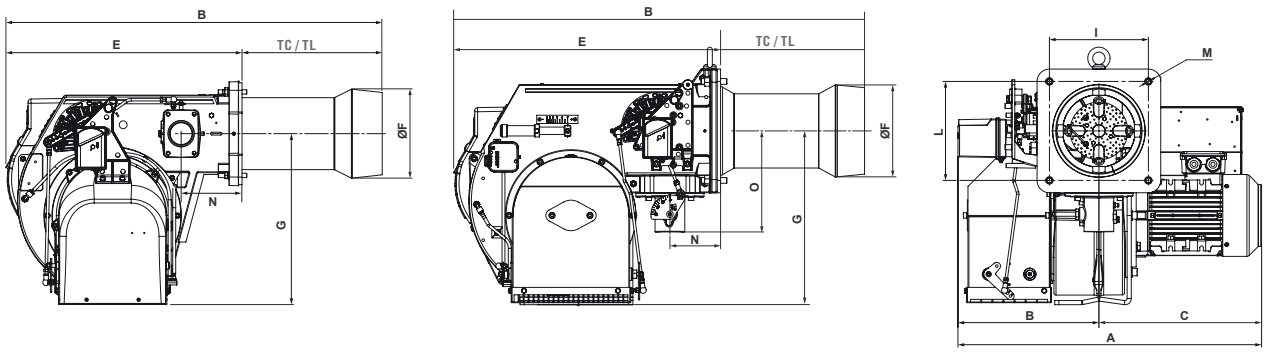
Model	A	B	C	TC	TL	E	F	G	I	L	M	N	O
BOOSTER 50/PR	510	302	208	175	-	510	157	280	185/200	185/200	M8	62	101
BOOSTER 50 L/PR	510	302	208	-	335	510	157	280	185/200	185/200	M8	62	101
BOOSTER 70/PR	510	302	208	250	-	500	157	280	185/200	185/200	M8	62	101
BOOSTER 70 L/PR	510	302	208	-	390	500	157	280	185/200	185/200	M8	62	101

BOOSTER 100/PR | BOOSTER 100 L/PR | BOOSTER 120/PR | BOOSTER 120 L/PR



Model	A	B	C	TC	TL	E	F	G	H1	I	L	M	N	O
BOOSTER 100/PR	650	330	320	175	-	555	190	390	600	190	190	M10	140	165
BOOSTER 100 L/PR	670	350	320	-	460	555	200	390	600	190	190	M10	140	165
BOOSTER 120/PR	670	350	320	310	-	555	200	390	600	190	190	M10	140	165
BOOSTER 120 L/PR	670	350	320	-	460	555	200	390	600	190	190	M10	140	165

BOOSTER 150/PR | BOOSTER 150 L/PR | BOOSTER 200/PR | BOOSTER 200 L/PR



Model	A	B	C	TC	TL	E	Ø F	G	I	L	M	N	O
BOOSTER 150/PR	677	313	364	345	-	543	205	401	185/200	185/200	M10	138	-
BOOSTER 150 L/PR	677	313	364	-	545	543	205	401	185/200	185/200	M10	138	-
BOOSTER 200/PR	728	331	397	345	-	647	224	420	240	240	M14	125	245
BOOSTER 200 L/PR	728	331	397	-	545	647	224	420	240	240	M14	125	245

BOOSTER SERIES

GAS BURNER
ACCESSORIES

KIT MODUL RWF 50

Power modulation regulator (depending on the temperature or pressure) to transform BOOSTER series burners from Progressive to Modulating operation.



Code	Description	Burners
094590X0	**Kit modul RWF 50**	BOOSTER 50/PR - E; BOOSTER 50/PR L - E
094613X0	**Kit modul RWF 50**	BOOSTER 70/PR - E; BOOSTER 70/PR L - E; BOOSTER 100/PR - E; BOOSTER 100/PR L - E; BOOSTER 120/PR - E; BOOSTER 120/PR L - E; BOOSTER 150/PR - E; BOOSTER 150/PR L - E; BOOSTER 200/PR - E; BOOSTER 200/PR L - E
094592X0	**Temperature probe -** Range: 0 - 130° C	Kit Modul RWF 50 and BOOSTER series progressive type
094593X0	**Pressure probe -** Range: 0 - 4 bar	Kit Modul RWF 50 and BOOSTER series progressive type
094594X0	**Pressure probe -** Range: 0 - 10 bar	Kit Modul RWF 50 and BOOSTER series progressive type
094595X0	**Pressure probe -** Range: 0 - 16 bar	Kit Modul RWF 50 and BOOSTER series progressive type

KIT VPS504 NG / LPG

Natural gas / LPG valve proving system



Code	Description	Burners
094601X0	**KIT VPS504 NG** Natural gas valve proving system	BOOSTER Series
094602X0	**KIT VPS504 LPG** LPG valve proving system	BOOSTER Series
094603X0	**VPS adapter**	kit VPS504 and BOOSTER 10/2 - E; BOOSTER 17/2 - E; BOOSTER 25/2 - E

ANTIVIBRATION JOINT



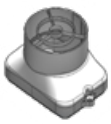
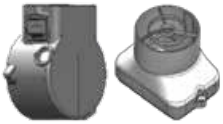
Code	Description	Burners
094596X0	**Antivibration joint** - Size 1 1/4"	BOOSTER Series
094597X0	**Antivibration joint** - Size 1 1/2"	BOOSTER Series
094598X0	**Antivibration joint** - Size 2"	BOOSTER Series
094599X0	**Antivibration joint** - Size DN65	BOOSTER Series
094600X0	**Antivibration joint** - Size DN80	BOOSTER Series

GAS FILTER



Code	Description	Burners
094581X0	**Gas filter** - Size 2"	BOOSTER Series
094582X0	**Gas filter** - Size DN80	BOOSTER Series
094583X0	**Gas filter** - Size DN65	BOOSTER Series

EXTERNAL AIR INTAKE KIT

	KIT SNORKEL		BURNER	
	Code	Description	Description	Code
	**094643X0**	External air intake kit D. 60 mm (starting accesory)	BOOSTER 7 - E	0UEM9AXA
			BOOSTER 7 L - E	0UEM9BXA
			BOOSTER 10 - E	0UEMBAXA
			BOOSTER 10 L - E	0UEMBBXA
			BOOSTER 12 - E	0UEMCAXA
			BOOSTER 12 L - E	0UEMCBXA
	**094645X0**	External air intake kit D. 60 mm (starting accesory)	BOOSTER 4 - E	0UEM7AXA
			BOOSTER 4 L - E	0UEM7BXA
	**094644X0**	External air intake kit D. 80 mm (starting accesory)	BOOSTER 7 - E	0UEM9AXA
			BOOSTER 7 L - E	0UEM9BXA
			BOOSTER 10 - E	0UEMBAXA
			BOOSTER 10 L - E	0UEMBBXA
			BOOSTER 12 - E	0UEMCAXA
			BOOSTER 12 L - E	0UEMCBXA
	**094646X0**	External air intake kit D. 80 mm (starting accesory)	BOOSTER 4 - E	0UEM7AXA
			BOOSTER 4 L - E	0UEM7BXA

BOOSTER SERIES

BOILER AND GAS BURNER MATCHING

Boiler				Gas burner		
Model	**Code**	**Output - kW**	**Back pressure - mbar**	**Model**	**Code**	**Operating**
PREXTHERM RSW 92N	**0QIJ3AXA**	99,5	0,5	BOOSTER 10 L - E	**0UEMBBXA**	One stage
				BOOSTER 10/2 L - E	**0UEBBBXA**	Two stage
PREXTHERM RSW 107N	**0QIJ4AXA**	116	0,7	BOOSTER 12 L - E	**0UEMCBXA**	One stage
				BOOSTER 17/2 L - E	**0UEBEBXA**	Two stage
PREXTHERM RSW 152N	**0QIJ6AXA**	165	1,2	BOOSTER 25 L - E	**0UEMFBXA**	One stage
				BOOSTER 25/2 L - E	**0UEBFBXA**	Two stage
PREXTHERM RSW 190N	**0QIJ7AXA**	206	1,2	BOOSTER 25 L - E	**0UEMFBXA**	One stage
				BOOSTER 25/2 L - E	**0UEBFBXA**	Two stage
PREXTHERM RSW 240N	**0QIJ8AXA**	261	2,3	BOOSTER 35 L - E	**0UEMGBXA**	One stage
				BOOSTER 40/2 L - E	**0UEBHBXA**	Two stage
PREXTHERM RSW 300N	**0QIJ9AXA**	326	3,3	BOOSTER 40/2 L - E	**0UEBHBXA**	Two stage
				BOOSTER 50/PR L - E	**0UEPIBXA**	Progressive
PREXTHERM RSW 350N	**0QIJAAXA**	378	3,5	BOOSTER 50/2 L - E	**0UEBIBXA**	Two stage
				BOOSTER 50/PR L - E	**0UEPIBXA**	Progressive
PREXTHERM RSW 401N (WN)	**0QIJBAXA**	434	4,4	BOOSTER 50/2 L - E	**0UEBIBXA**	Two stage
				BOOSTER 50/PR L - E	**0UEPIBXA**	Progressive
PREXTHERM RSW 525N (WN)	**0QIJEAXA**	567	4,3	BOOSTER 70/2 L	**0UEBKBXA**	Two stage
				BOOSTER 70/PR L	**0UEPKBXA**	Progressive
PREXTHERM RSW 600N (WN)	**0QIJFAXA**	648	4,8	BOOSTER 100/PR L	**0UEPLBXA**	Progressive
PREXTHERM RSW 720N (WN)	**0QIJHBXA**	777	4,5	BOOSTER 100/PR L	**0UEPLBXA**	Progressive
PREXTHERM RSW 820N (WN)	**0QIJIBXA**	881	5,6	BOOSTER 120/PR L	**0UEPNBXA**	Progressive
PREXTHERM RSW 940N (WN)	**0QIJJBXA**	1011	5,4	BOOSTER 150/PR L	**0UEPPBXA**	Progressive
PREXTHERM RSW 1060N (WN)	**0QIJKBXA**	1075	6	BOOSTER 150/PR L	**0UEPPBXA**	Progressive
TP3 COND 65	**0RGZ3AXA**	61,3	0,4	BOOSTER 7 L - E	**0UEM9BXA**	One stage
				BOOSTER 10/2 L - E	**0UEBBBXA**	Two stage
TP3 COND 100	**0RGZ4AXA**	94,3	0,65	BOOSTER 10 L - E	**0UEMBBXA**	One stage
				BOOSTER 10/2 L - E	**0UEBBBXA**	Two stage
TP3 COND 150	**0RGZ5AXA**	141,5	1,7	BOOSTER 17 - E	**0UEMEAXA**	One stage
				BOOSTER 17/2 - E	**0UEBEAXA**	Two stage
TP3 COND 230	**0RGZ8AXA**	217	1,7	BOOSTER 25 - E	**0UEMFAXA**	One stage
				BOOSTER 25/2 - E	**0UEBFAXA**	Two stage
TP3 COND 370	**0RGZBAXA**	349,1	2	BOOSTER 40/2 - E	**0UEBHAXA**	Two stage
				BOOSTER 50/PR - E	**0UEPIAXA**	Progressive
TP3 COND 500	**0RGZDAXA**	471,7	3,5	BOOSTER 70/2	**0UEBKAXA**	Two stage
				BOOSTER 70/PR	**0UEPKAXA**	Progressive
TP3 COND 650	**0RGZGAXA**	613,2	4,2	BOOSTER 70/2	**0UEBKAXA**	Two stage
				BOOSTER 70/PR	**0UEPKAXA**	Progressive
TP3 COND 820	**0RGE01XA**	767	6	BOOSTER 100/PR L	**0UEPLBXA**	Progressive
TP3 COND 1000	**0RGF02XA**	935	6,4	BOOSTER 120/PR	**0UEPNAXA**	Progressive

BIOMASS

AVANA N

SEALED PELLET STOVE
MADE OF STEEL AND CAST IRON



> STRENGTHS:

- Sealed pellet stove: Certified as sealed, ensuring total safety even when installed in bedrooms. These models are perfectly airtight and insulated from the room, meaning they do not consume indoor oxygen
- High efficiency: With a power output of 8.7 kW and an efficiency rating of up to 95%, pellet consumption is extremely low, allowing it to heat rooms up to 67 m^2
- Modern design: A sleek, completely round aesthetic that fits perfectly into any setting.
- Double glass door: The outer door is made entirely of glass, offering a premium look while providing complete safety against burn risks from accidental contact
- Space-saving top flue outlet: Features a top gas outlet that significantly reduces the clearance needed at the rear. A coaxial tube accessory is also available for top outlet installation
- Flexible combustion air intake: Combustion air can be drawn directly from outside via a suction tube, or through a coaxial system
- Durability: Equipped with a cast iron burner for a long service life
- Advanced control: Includes a built-in remote control for full management of the stove
- Smart connectivity: Comes with built-in Wi-Fi as standard; no external accessories are required
- Color options: Available in 2 finishes: black and bronze



Remote control included

MODEL			AVANA N
ErP Class			A+
Nominal thermal power		kW	8.7
Maximum surface area to be heated *		m^2	67
Performance max / min power outout		%	92.2 / 95
Maximum pellet consumption **		kg/h	1.81
Pellet tank capacity		kg	17
Recommended pellets UNE-EN ISO 17225-2	Heat capacity	kW/kg	4.8
	Humidity	%	< 10 weight
	Diameter	mm	6
	Lenght	mm	25
Maximum flue gas temperature		°C	135
Diameter of exhaust pipe		Ø	80
CO emissions (13% O_2) * max / min power		mg/N	61 / 106
Minimum chimney draft required		Pa	12
Electrical supply		V/Hz	230 / 50
Power consumption (ignition / normal operation)		W	370 / 87
Weight		kg	110
Dimensions (height / width / depth)		mm	1225 / 580 / 580
CODE		**BRONZE**	**0SS118XA**
		BLACK	**0SS119XA**
COAXIAL TUBE ACCESSORY			**L90UA1HA**

(*) Considering a height of 2.7 m. The heating requirements of the building may vary depending on insulation, type of construction, and climate zone

(**) Pellet consumption may vary depending on the type of pellet and how it is stored.

BIOPELLET COMBI

STEEL BOILERS
FOR PELLET/WOOD OPERATION



> STRENGTHS:

- High-efficiency steel boilers operating on pellet and wood, designed for central heating and domestic hot water production via connection to an external storage tank
- Fully automated combustion ensures optimal fuel consumption, thanks to intelligent control of the balance between the combustion chamber, heat exchanger, and flue gas ducts
- Dual-fuel operation with easy switching between pellet and wood
- Option to connect to an external boiler for domestic hot water production
- Compatible with room thermostat
- Digital control panel with buttons
- Installation of the boiler in living spaces, including corridors, is prohibited



CONTROL PANEL

The control panel displays information about the stove's operating status: clock, room-water temperature, boiler status, set power level, and operating mode. By accessing the menu, you can obtain various types of displays and make the settings available depending on your access level

MODEL		25	35	50	60
ErP Class		A	A	A	A
Fuel type		Wood pellet - EN ISO 17225-2_A1 / Wood logs - EN ISO 17225-5			
Nominal heat output *	kW	25 - 20	35.3 - 30.3	50 - 45.2	65.5 - 62.2
Minimun heat output *	kW	7.6 - 6	10.6 - 9.1	15.1 - 13.5	19.8 - 18.6
Maximum fuel consumption *	kg/h	5.58-4.4	7.85-6.55	11.3-9.8	14.9-13.5
Pellet storage capacity	kg	125	135	155	180
Water content	litres	75	85	120	158
Electrical supply	V/Hz	230/50	230/50	230/50	230/50
Water inlet/outlet	"	1	1 1/4	1 1/4	1 1/2
Smoke outlet	mm	120	120	120	120
Dimensions (H x L x A)	mm	1300x810x950	1350x870x950	1350x980x1010	1590x980x1060
Weight	kg	310	330	380	430
CODE		**0SRC01XA**	**0SRC02XA**	**0SRC03XA**	**0SRC04XA**

** Pellet-wood fuel*

BIOPELLET PRO

STEEL PELLET BOILERS FOR CENTRAL HEATING



> STRENGTHS:

- Biopellet Pro is one of the most efficient central heating boilers that uses automated pellet combustion
- The operating principle of this boiler is based on using a vacuum combustion chamber, which is completely sealed so that the airflow is controlled by the exhaust fan mounted on the rear side of the boiler
- Combustion is optimized using a modulation algorithm that automatically reduces the pellet and air feed as the boiler approaches the desired temperature.
- The boiler must not be installed in living areas (including hallways)
- Fully equipped boiler - includes expansion tank, safety valve, and built-in circulation pump
- High efficiency of up to 94% - flue gas temperature below 160°C
- Exhaust fan - ensures the necessary airflow for combustion and proper evacuation of flue gases
- Low NOx levels in compliance with European Standards EN 303-5
- Fully automated ignition / startup / shutdown of the boiler
- Efficient operation - modulating burner and sealed combustion chamber with airflow controlled by a fan
- Compact dimensions - easy to transport and install thanks to its small footprint (pellet tank mounted on top)
- Effective combustion - simplified cleaning and maintenance compared to traditional solid fuel boilers



CONTROL PANEL

The control panel with LCD display is equipped with a multilingual menu and allows you to constantly monitor all the parameters relating to the management of the heating/sanitary systems

MODEL		8	12	18	24	30	40
ErP Class		A	A	A	A	A	A
Fuel type		Wood pellet - EN ISO 17225-2_A1					
Heat output *	kW	9 - 2.2	12 - 3.2	18 - 5.1	24.2 - 6.8	30.8 - 8.7	44 - 12
Thermal efficiency *	%	92.1 - 90.7	94 - 96	95 - 96	93 - 96	93 - 96	92.7 - 93
Maximum fuel consumption **	kg/h	1.9	2.6	2.4	5.3	6.7	9.4
Pellet storage capacity	Kg	105	105	105	105	105	105
Water content	litres	30	30	48	48	65	65
Electrical supply	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Power consumption (ignition / normal operation)	W	310/60	310/60	310/60	310/60	310/60	380/60
Water inlet/outlet	"	1	1	1	1	1	1
Smoke outlet	mm	80	80	80	80	80	100
Dimensions (H x L x A)	mm	1490x600x750	1490x638x750	1564x638x772	1564x638x772	1650x700x790	1650x700x790
Weight	kg	230	230	270	270	310	320
Heatable volume ***	m^3	257 - 180	342 - 240	514 - 360	691 - 484	880 - 616	1257 - 880
CODE		**LSBBP08T**	**LSBBP12T**	**LSBBP18T**	**LSBBP24T**	**LSBBP30T**	**LSBBP40T**

* *at Nominal and Minimum power*

** *Fuel consumption may vary depending on the type of pellet used*

*** *Depending on the insulation status of the home and calculated on 35 - 50 W/m³*

BIOPELLET UNO

STEEL PELLET BOILERS FOR CENTRAL HEATING



> STRENGTHS:

- Biopellet Uno are fully automated steel boilers designed for centralized residential heating
- They are delivered fully equipped and ready for installation, including: heating pump, expansion vessel, safety valve, safety thermostat, digital control panel, high-airflow self-cleaning system, integrated pellet hopper, and removable ash tray
- The combustion process is optimized using a dynamic modulation algorithm that automatically adjusts pellet dosage and airflow based on deviation from the set temperature. This proportional control strategy ensures stable combustion, minimal fuel consumption, and increased energy efficiency
- Installing the boiler in living areas (including hallways) is strictly prohibited!
- Fully automated operation with daily, weekly, and weekend scheduling
- Option to connect an external boiler for domestic hot water production
- Option to connect a room thermostat
- Digital control panel with buttons
- Control capability of a mixed heating circuit



CONTROL PANEL

This control panel implements all the functions while maintaining a compact size, making it possible to:

- View information on the appliance's operation
- View and modify operating parameters
- View the system's operating temperatures
- Set on and off programs in both normal operation and in chronothermostat mode

MODEL		12	18	24	30
ErP Class		A+	A+	A+	A+
Fuel type		Wood pellet - EN ISO 17225-2_A1			
Heat output *	kW	12.1 - 3.5	18.2 - 4.8	24.2 - 6.8	30.1 - 7.3
Thermal efficiency *	%	91.9 - 90.7	92.6 - 91.7	92.7 - 91.9	92.8 - 92.0
Maximum fuel consumption **	kg/h	2.8	3.9	5.2	6.5
Pellet storage capacity	Kg	100	108	108	118
Water content	litres	42	45	45	65
Electrical supply	V/Hz	230/50	230/50	230/50	230/50
Water inlet/outlet	"	1	1	1	1
Smoke outlet	mm	80	80	80	80
Dimensions (H x L x A)	mm	1420x630x800	1460x630x840	1460x630x840	1560x640x840
Weight	kg	260	275	275	292
Heatable volume ***	m^3	345 - 242	520 - 364	691 - 484	860 - 602
CODE		**0SRC06XA**	**0SRC07XA**	**0SRC08XA**	**0SRC09XA**

* *at Nominal and Minimum power*

** *Fuel consumption may vary depending on the type of pellet used*

*** *Depending on the insulation status of the home and calculated on 35 - 50 W/m³*

BIOPELLET TOP

STEEL PELLET BOILERS FOR CENTRAL HEATING



> STRENGTHS:

- Biopellet Top are fully automated steel boilers designed for centralized residential heating
- They are delivered fully equipped and ready for installation, including: heating pump, expansion vessel, safety valve, safety thermostat, digital control panel, integrated pellet hopper, and removable ash tray
- The boilers feature three cleaning systems: automatic cleaning with increased air flow, mechanical self-cleaning of the combustion grate (rotating burner), manual cleaning of the flue paths
- The combustion process is optimized using a dynamic modulation algorithm, which automatically adjusts pellet dosage and fan speed based on the deviation from the set temperature and the intake air flow
- This proportional control strategy ensures complete and stable combustion, minimal fuel consumption, increased energy efficiency, and low emissions.
- The boiler must not be installed in living areas (including hallways)



CONTROL PANEL

This innovative colormulti-touch capacitive display with intuitive graphics and smooth animations lets you view the operation of the appliance's hydraulic systems, motors, and other components. The device is also designed to support future firmware and feature updates

MODEL		8	12	18	24	30
ErP Class		A	A	A	A	A
Fuel type		Wood pellet - EN ISO 17225-2_A1				
Nominal heat output	kW	9.1 - 2.6	12.2 - 3.4	18.3 - 4.9	24.3 - 6.1	30.3 - 7.3
Thermal efficiency *	%	92.9 - 90.2	91.9 - 90.7	92.6 - 91.7	92.7 - 91.9	92.8 - 92.0
Maximum fuel consumption	kg/h	2.1	2.8	4.2	5.6	7
Pellet storage capacity	Kg	100	100	100	100	110
Water content	litres	42	42	45	45	65
Electrical supply	V/Hz	230/50	230/50	230/50	230/50	230/50
Water inlet/outlet	"	1	1	1	1	1
Smoke outlet	mm	80	80	80	80	80
Dimensions (H x L x A)	mm	1420x630x800	1460x630x840	1460x630x840	1460x630x840	1560x640x840
Weight	kg	260	260	275	275	292
Heatable volume ***	m^3	260 - 182	348 - 244	522 - 366	694 - 486	865 - 606
CODE		**0SRC10XA**	**0SRC11XA**	**0SRC12XA**	**0SRC13XA**	**0SRC14XA**

* *at Nominal and Minimum power*

** *Fuel consumption may vary depending on the type of pellet used*

*** *Depending on the insulation status of the home and calculated on 35 - 50 W/m³*

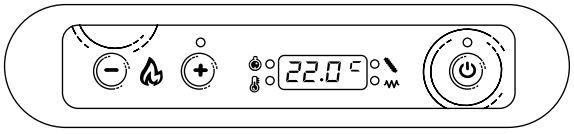
LIRA SLIM PLUS

MODULATING PELLET COOKER
STEEL AND CAST IRON



> STRENGTHS:
- Elegant design and high energy efficiency, with up to 89.9% efficiency
- 12 kg pellet hopper for long operating autonomy
- Thermal power up to 5.7 kW
- Extended autonomy with 12 kg hopper; refill every 3 days
- Suitable for heating rooms up to 50 m²
- Long-lasting cast iron burner and specially designed steel combustion chamber
- Available in two colors: bordeaux and black

> INTEGRATED CONTROL PANEL
- Set your desired room temperature
- Automatic modulation of pellet consumption based on the selected or reached temperature
- Alerts in case of system faults or blockages
- Weekly programmable thermostat (chronothermostat)



CONTROL PANEL

This compact control panel contains all the functions needed to manage the appliance, in particular:
- view information during operation
- view and modify operating parameters
- view the operating status and various settings
- switch on and off, including setting the appliance to chronothermostat mode

MODEL		LIRA SLIM PLUS
ErP Class		A
Fuel type		Wood pellet - EN ISO 17225-2_A1
Heat output *	kW	5.7 - 2.3
Thermal efficiency *	%	88.5 - 89.9
CO emissions (13% O_2) *	mg/m³	83 - 172
Pellet consumption **	kg/h	1.33 - 0.53
Pellet storage capacity	kg	12
Maximum flue gas temperature	°C	179.4
Flue gas outlet	mm	Ø 80
Minimum chimney draft required	Pa	10
Combustion air inlet	mm	Ø 32
Electrical supply	V/Hz	230 / 50
Power consumption (ignition / normal operation)	W	370 / 45
Weight	kg	40
Dimensions (height / width / depth)	mm	760 / 400 / 430
Heatable volume ***	m³	162 - 114
CODE	**BORDEAUX**	**0SS013XA**
	BLACK	**0SS019XA**
WI-FI ACCESSORY		**083000X0**

* *at Nominal and Minimum power*

** *Fuel consumption may vary depending on the type of pellet used*

*** *Depending on the insulation status of the home and calculated on 35 - 50 W/m³*

CORONA

MODULATING PELLET STOVE
STEEL BODY WITH CAST IRON BASE



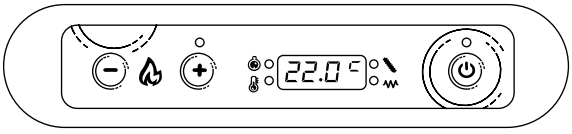
> STRENGTHS:
- Elegant and refined design with high energy efficiency, reaching up to 94.3%
- Thermal power up to 9.4 kW
- Long-lasting performance thanks to a 15 or 22 kg pellet hopper (depending on the model)
- Suitable for heating rooms up to 82 m²
- Durable cast iron burner for extended lifespan
- Maximum safety: safety thermostat (prevents backflow), anti-deflagration valve, pressure switch
- Wi-Fi ready with optional accessory
- Available in two colors: bordeaux and black

> INTEGRATED DIGITAL CONTROL PANEL
- Set your desired room temperature
- Automatic modulation of pellet consumption based on the selected or reached temperature
- Alerts in case of system faults or blockages
- Weekly programmable thermostat (chronothermostat)





NEW AESTHETICS WITH ROUNDED EDGES



CONTROL PANEL

This compact control panel contains all the functions needed to manage the appliance, in particular:
- view information during operation
- view and modify operating parameters
- view the operating status and various settings
- switch on and off, including setting the appliance to chronothermostat mode

MODEL		7	9	12
ErP Class		A+	A+	A+
Fuel type		Wood pellet - EN ISO 17225-2_A1		
Heat output *	kW	5.9 - 2.2	7.9 - 3.0	9.4- 3.0
Thermal efficiency *	%	87 - 90.4	90.2 - 94.3	88.6 - 94.3
CO emissions (13% O_2) *	mg/m³	246 - 188	33 - 96	46 - 96
Pellet consumption **	kg/h	1.41 - 0.5	1.81 - 0.67	2.2 - 0.67
Pellet storage capacity	kg	15	22	22
Maximum flue gas temperature	°C	182.6	145.8	171.2
Flue gas outlet	mm	Ø 80	Ø 80	Ø 80
Minimum chimney draft required	Pa	12	12	12
Combustion air inlet	mm	Ø 50	Ø 50	Ø 50
Electrical supply	V/Hz	230 / 50	230 / 50	230 / 50
Power consumption (ignition / normal operation)	W	370 / 52	370 / 87	370 / 89
Weight	kg	49	79	79
Dimensions (height / width / depth)	mm	890 / 430 / 503	953 / 460 / 540	953 / 460 / 540
Heatable volume ***	m³	168 - 118	225 - 158	268 - 188
CODE	**BORDEAUX**	**0SS023XA**	**0SS043XA**	**0SS063XA**
	BLACK	**0SS029XA**	**0SS049XA**	**0SS069XA**
WI-FI ACCESSORY		**083000X0**		

(*) at Nominal and Minimum power

(**) Fuel consumption may vary depending on the type of pellet used

(***) Depending on the insulation status of the home and calculated on 35 W/m³

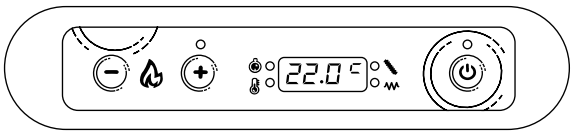
ELDA

SEALED PELLET STOVE
STEEL AND CAST IRON CONSTRUCTION



> STRENGTHS:
- Sealed combustion: operates in an airtight chamber without using room air - certified safe even for bedroom installation
- Fully airtight and isolated from the environment: does not consume indoor oxygen
- Thermal power up to 9.7 kW
- Efficiency up to 95%
- Large-capacity pellet hopper (15 or 22 kg), requiring refilling every 3 days (model-dependent)
- Suitable for heating rooms up to 82 m²
- Uses external air for combustion via intake duct
- Long lifespan thanks to its cast iron burner
- Available in two colors: bordeaux and black

> INTEGRATED DIGITAL CONTROL PANEL
- Set your desired room temperature
- Automatic modulation of pellet consumption based on the selected or reached temperature
- Alerts in case of system faults or blockages
- Weekly programmable thermostat (chronothermostat)







NEW AESTHETICS WITH ROUNDED EDGES

CONTROL PANEL

This compact control panel contains all the functions needed to manage the appliance, in particular:
- view information during operation
- view and modify operating parameters
- view the operating status and various settings
- switch on and off, including setting the appliance to chronothermostat mode

MODEL		7	9	11
ErP Class		A	A	A
Fuel type		Wood pellet - EN ISO 17225-2_A1		
Heat output *	kW	5.9 - 2.2	7.9 - 3.0	9.4- 3.0
Thermal efficiency *	%	87 - 90.4	90.2 - 94.3	88.6 - 94.3
CO emissions (13% O_2) *	mg/m³	246 - 188	33 - 96	46 - 96
Pellet consumption **	kg/h	1.41 - 0.5	1.81 - 0.67	2.2 - 0.67
Pellet storage capacity	kg	15	22	22
Maximum flue gas temperature	°C	182.6	145.8	171.2
Flue gas outlet	mm	Ø 80	Ø 80	Ø 80
Minimum chimney draft required	Pa	12	12	12
Combustion air inlet	mm	Ø 50	Ø 50	Ø 50
Electrical supply	V/Hz	230 / 50	230 / 50	230 / 50
Power consumption (ignition / normal operation)	W	370 / 52	370 / 87	370 / 89
Weight	kg	49	79	79
Dimensions (height / width / depth)	mm	890 / 430 / 503	953 / 460 / 540	953 / 460 / 540
Heatable volume ***	m³	168 - 118	225 - 158	268 - 188
CODE	**BORDEAUX**	**0SS033XA**	**0SS053XA**	**0SS073XA**
	BLACK	**0SS039XA**	**0SS059XA**	**0SS079XA**
WI-FI ACCESSORY		**083000X0**		

(*) at Nominal and Minimum power

(**) Fuel consumption may vary depending on the type of pellet used

(***) Depending on the insulation status of the home and calculated on 35 W/m³

PENELOPE HRN

MODULATING PELLET COOKER IN STEEL



REMOTE CONTROL INCLUDED



> STRENGTHS:

- Featuring a refined design and high energy efficiency, with a thermal efficiency of 95%
- Thermal power up to 12.7 kW
- Offers excellent autonomy
- Suitable for heating spaces up to 102 m²
- Integrated digital control panel
- Maximum safety: safety thermostat (prevents backflow), anti-deflagration valve, pressure switch
- Built to last, with a cast iron burner and a combustion chamber lined with vermiculite
- Wi-Fi ready with optional accessory
- Available in two colours: bordeaux and black

> INTEGRATED DIGITAL CONTROL PANEL

- Desired room temperature selection
- Automatic modulation of pellet consumption based on the set and detected temperature
- Blockage or error alerts
- Weekly chronothermostat (programmable timer)
- Fan speed adjustment

CONTROL PANEL

This intuitive and compact control panel contains all the functions needed to manage the appliance, in particular:

- view information during operation
- view and modify operating parameters
- view the operating status and various settings
- switch on and off, including setting the appliance to chronothermostat mode

MODEL		PENELOPE HRN
ErP Class		A
Fuel type		Wood pellet - EN ISO 17225-2_A1
Heat output *	kW	12.7 - 3.1
Thermal efficiency *	%	90 - 95
CO emissions (13% O_2) *	mg/m³	247 - 265
Pellet consumption **	kg/h	2.9 - 0.69
Pellet storage capacity	kg	20
Maximum flue gas temperature	°C	218
Flue gas outlet	mm	Ø 80
Minimum chimney draft required	Pa	12
Combustion air inlet	mm	Ø 50
Electrical supply	V/Hz	230 / 50
Power consumption (ignition / normal operation)	W	420 / 130
Weight	kg	109
Dimensions (height / width / depth)	mm	1032 / 629 / 535
Heatable volume ***	m³	362 - 254
CODE	**BORDEAUX**	**0SS083XA**
	BLACK	**0SS089XA**
WI-FI ACCESSORY		**L90F820A**

(*) at Nominal and Minimum power

(**) Fuel consumption may vary depending on the type of pellet used

(***) Depending on the insulation status of the home and calculated on 35 W/m³

BRETA PELLET PRO

PELLET-BURNING THERMO-FIREPLACES FOR CENTRAL HEATING SYSTEMS



> STRENGTHS:

- Breta Pellet Pro are automated thermal fireplaces designed for central heating
- They come fully equipped with a heating pump, expansion vessel, safety valve, safety thermostat, digital control panel, self-cleaning via increased air flow, pellet hopper, and a removable ash tray
- The combustion control is optimized through a modulation algorithm that automatically reduces the pellet and air supply as the boiler nears the desired temperature



CONTROL PANEL

This control panel implements all the functions while maintaining a compact size, making it possible to:

- View information on the appliance's operation
- View and modify operating parameters
- View the system's operating temperatures
- Set on and off programs in both normal operation and in chronothermostat mode

MODEL		8	12	18	24	30
ErP Class		A	A	A	A	A
Fuel type		Wood pellet - EN ISO 17225-2_A1				
Heat output *	kW	8.3 - 5.0	12.1 - 5.0	18.1 - 7.8	24.3 - 9.4	30.3 - 11
Heat output of water *	kW	7.4 - 4.5	10.3 - 4.5	16.0 - 6.9	21.2 - 7.8	26.2 - 8.71
Space Heat output *	kW	0.9 - 0.5	1.8 - 0.5	2.1 - 0.9	3.1 - 1.6	4.1 - 2.26
Thermal efficiency *	%	93.0 - 94.2	93.1 - 93.5	93.4 - 94.3	93.6 - 94	93.9 - 93.9
CO emissions (13% O_2) *	mg/m³	246 - 433	234 - 441	65 - 252	91.6 - 232.1	117 - 213
Pellet consumption **	kg/h	1.8 - 1.1	2.7 - 1.1	4.0 - 1.7	5.34 - 2.06	6.66 - 2.41
Pellet storage capacity	kg	22	30	39	39	45
Maximum flue gas temperature	°C	96.5	100	101.1	101.8	102.4
Flue gas outlet	mm	Ø 80	Ø 80	Ø 80	Ø 80	Ø 80
Minimum chimney draft required	Pa	12	12	12	12	12
Combustion air inlet	mm	Ø 60	Ø 60	Ø 60	Ø 60	Ø 76
Electrical supply	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Power consumption (ignition / normal operation)	W	400 / 60	400 / 60	400 / 60	400 / 60	400 / 60
Weight	kg	145	160	170	170	188
Dimensions (height / width / depth)	mm	970 / 525 / 580	1050 / 535 / 600	1130 / 585 / 615	1130 /585/615	1180 / 625 / 660
Heatable volume ***	m³	212 - 148	295 - 206	458 -320	606 - 425	750 - 525
CODE	**IVORY**	**0SR010XA**	**0SR020XA**	**0SR030XA**	**0SR040XA**	**0SR050XA**

(*) at Nominal and Minimum power

(**) Fuel consumption may vary depending on the type of pellet used

(***) Depending on the insulation status of the home and calculated on 35 W/m³

MIRANO PELLET PRO

PELLET-BURNING THERMO-FIREPLACES FOR CENTRAL HEATING SYSTEMS



> STRENGTHS:

- Mirano Pellet Pro are automated thermal fireplaces designed for central heating
- They come fully equipped with a heating pump, expansion vessel, safety valve, safety thermostat, digital control panel, self-cleaning via increased air flow, pellet hopper, and a removable ash tray.
- The combustion control is optimized through a modulation algorithm that automatically reduces the pellet and air supply as the boiler nears the desired temperature



CONTROL PANEL

This control panel implements all the functions while maintaining a compact size, making it possible to:

- View information on the appliance's operation
- View and modify operating parameters
- View the system's operating temperatures
- Set on and off programs in both normal operation and in chronothermostat mode

MODEL		8	12	18	24	30
ErP Class		A+	A+	A+	A+	A
Fuel type		Wood pellet - EN ISO 17225-2_A1				
Heat output *	kW	8.3 - 5.0	12.1 - 5.0	18.1 - 7.8	24.3 - 9.4	30.3 - 11
Heat output of water *	kW	7.4 - 4.5	10.3 - 4.5	16.0 - 6.9	21.2 - 7.8	26.2 - 8.71
Space Heat output *	kW	0.9 - 0.5	1.8 - 0.5	2.1 - 0.9	3.1 - 1.6	4.1 - 2.26
Thermal efficiency *	%	93.0 - 94.2	93.1 - 93.5	93.4 - 94.3	93.6 - 94	93.9 - 93.9
CO emissions (13% O_2) *	mg/m³	246 - 433	234 - 441	65 - 252	91.6 - 232.1	117 - 213
Pellet consumption **	kg/h	1.8 - 1.1	2.7 - 1.1	4.0 - 1.7	5.34 - 2.06	6.66 - 2.41
Pellet storage capacity	kg	22	30	39	39	45
Maximum flue gas temperature	°C	96.5	100	101.1	101.8	102.4
Flue gas outlet	mm	Ø 80	Ø 80	Ø 80	Ø 80	Ø 80
Minimum chimney draft required	Pa	12	12	12	12	12
Combustion air inlet	mm	Ø 60	Ø 60	Ø 60	Ø 60	Ø 76
Electrical supply	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
Power consumption (ignition / normal operation)	W	400 / 60	400 / 60	400 / 60	400 / 60	400 / 60
Weight	kg	145	160	170	170	188
Dimensions (height / width / depth)	mm	970 / 525 / 580	1050 / 535 / 600	1130 / 585 / 615	1130 /585/615	1180 / 625 / 660
Heatable volume ***	m³	212 - 148	295 - 206	458 -320	606 - 425	750 - 525
CODE	**IVORY**	**0SR060XA**	**0SR070XA**	**0SR080XA**	**0SR090XA**	**0SR100XA**

(*) at Nominal and Minimum power

(**) Fuel consumption may vary depending on the type of pellet used

(***) Depending on the insulation status of the home and calculated on 35 W/m³

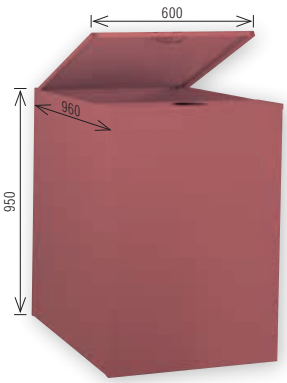
SUN P N PELLET BURNER



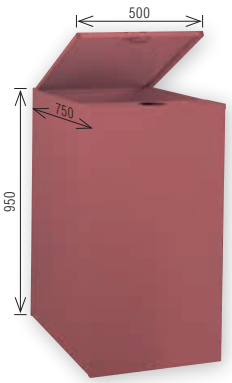
> STRENGTHS:

- **Ultra-compact pellet burner** supplied complete with automatic loading system consisting of motor and feed screw
- **The electronic board on the machine** offers perfect control of the boiler/burner system, pellet loading and the main elements of a domestic heating system (system circulator, circulator and/or three-way DHW valve, system flow sensor and storage tank, room thermostat or remote programmable thermostat)
- The card's microprocessor recognises what system elements are connected and **configures automatically**
- **The user interface** is characterised by a large display with adjustment keys on the top back of the cover hood, for easy reading and/or adjusting.
- The burner can be adjusted to operate in **single-stage** or with two type of **flame modulation** with 5 power levels.
- As per standard it comes with a flame return safety thermostat calibrated at 85°C
- **Flame ignition** with electrical heating element and **detection** with photo-resistor
- Two different types of optional storage boxes are available: **180 kg and 280 kg**

STORAGE BOX



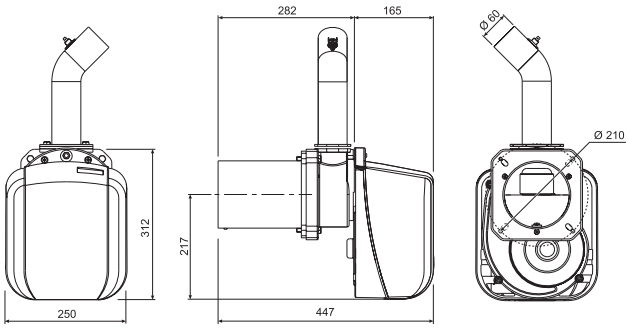
code 096004X0
pellet container of
350 dm³ - approx 280 kg
(provided as a kit requiring assembly)



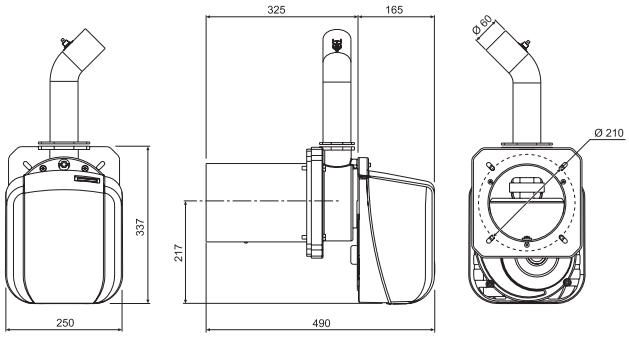
code 096002X0
pellet container of
195 dm³ - approx. 180 kg
(provided as a kit requiring assembly)

EXTRA UE

SUN P7 N



SUN P12 N



MODEL			7 N	12 N
Heat input	Max Min	kW kW	34.1 13.7	55.0 30.0
Combustible capacity	Max Min	kg/h kg/h	7.2 2.9	11.6 6.3
Max pellet dimension	diameter length	mm mm	6 35	6 35
Power supply		V/Hz	230/50	230/50
CODE			**0U2F6DXA** *	**0U2F8DXA** *

> TABLE OF BOILER/BURNER COMBINATIONS

GENERATOR		BURNER	
MODEL	CODE	MODEL	CODE
SFL 3	0ICJ3TWA	**SUN P7 N**	0U2F6DXA
SFL 4	0ICJ4TWA		
SFL 5	0ICJ5TWA	**SUN P12 N**	0U2F8DXA
SFL 6	0ICJ6TWA		
SFL 7	0ICJ7TWA		

* CODE REFERRING ONLY TO THE BURNER, THE FEED SCREW AND THE MOTOR FOR PELLET LOADING

> ACCESSORIES

CODE	DESCRIPTION
096002X0	PELLET STORAGE BOX (UNASSEMBLED) UP TO 195 dm³
096004X0	PELLET STORAGE BOX (UNASSEMBLED) UP TO 350 dm³

SOLAR THERMAL

SOLAREVO NAT NATURAL CIRCULATION SYSTEM



> PRODUCT CHARACTERISTICS

- **System complete with:**
  * flat-plate collector SOLAREVO 2.1 (mod. 160 lt and 200 lt) or SOLAREVO 2.6 (mod. 300 lt)
  * boiler, hydraulic fittings, connecting pipes
  * concentrated glycol for mixing
  * non-return valve and 10-bar safety at domestic cold water inlet
  * safety valve 2.5 bar solar primary circuit
  * frames for flat roof **(mod. ''TP'')** or pitched roof **(mod. ''TI'')** supplied in the kit
- **New SOLAREVO flat-plate solar collector** with self-supporting aluminum frame
- **3.2 mm high-transparency toughened solar glass**
- Highly selective **absorber** (AL-Tinox)
- Mineral wool collector **insulation** 40 mm
- Optional 1.5 kW supplementary electric heater
- No need for electrical components such as temperature control or circulators
- "Keymark" quality certification for **"Factory Made"** systems (solar kits) (EN 12976-1/2)

SOLAREVO NAT	MAX NO. PERSONS
160	2 - 3
200	3 - 4
300	4 - 6

N.B.: The data shown are indicative and refer to correctly oriented and inclined collectors. The optimal system should be chosen taking into account the actual domestic hot water consumption of the dwelling unit served

MODEL		160 / 2.1		200 / 2.1		300 / 5.2		
		TP 45°	TI	TP 45°	TI	TP 45°	TP 30°	TI
Floor plan dimensions (WxD) pitched roof	mm	-	1240x1600	-	1240x2000	-	-	2000x2000
Dimensions (WxDxH) of flat roof	mm	1230x1684x1700	-	1520x1684x1700	-	2553x1973x1989	2553x2247x1531	-
Overall gross/useful surface area	m^2	2.09/1.99		2.09/1.99		5.20/4.96		
Weight of empty system	kg	92,5		107,5		178,4		
Weight of full system	kg	245,1		301,1		477		
Number of collectors	no.	1 (mod. 2.1)		1 (mod. 2.1)		2 (mod. 2.6)		
Boiler volume	L	151		192		295		
Hot water circuit connections	Ø	1/2"						
Max operating pressure of solar circuit	bar	2,5						
Max operating pressure of domestic water circuit	bar	10						
Boiler cathodic protection		magnesium anode						
CODE		**0XGN12XA**	**0XGN15XA**	**0XGN13XA**	**0XGN16XA**	**0XGN54XA**	**0XGN58XA**	**0XGN57XA**

The installation of an expansion vessel on the domestic water circuit is recommended.

> COMPLEMENTARY ACCESSORIES

	DESCRIPTION	CODE
	Kit 4 brackets for pantiles/tiles	076242X0
	Kit 4 universal brackets	076241X0
	Kit 1.5 kW electric heaters with thermostat	073109X0
	Thermostatic mixer connections 1/2"	13002X0

SOLAR COMPACT KIT

PRE-ASSEMBLED SOLAR PACKAGE





> PRODUCT CHARACTERISTICS

- Pre-assembled circulation unit with: 1/2" safety valve, flow meter with flow regulator, system fill and drain valves, shut-off valve and pressure gauge set, solar circulator, shut-off valve, solar electronic controller, expansion tank for 18-lt solar circuit
- The solar controller manages solar circuit temperature through tank and collector probes (1 PT1000 probe + 1 NTC) and features autodiagnostics
- Double coil storage tank, 200 or 300 litres
- SOLAREVO V 2.1 flat solar collector included with Models ST 200 H / ST 300 H. Solar-keymark certification (EN 12975). 22 mm diameter connection, compression type
- Models BL 200 / BL 300 are without solar collectors (omoboblock only)
- Lodging for electrical heating element, 1" 1/2 fitting

MODEL		ST 200 H	BL 200	ST 300 H	BL 300
Storage tank: ERP Class		C	C	C	C
Storage tank: useful volume	lt	196	196	273	273
Storage tank: thermal dispersion	W	67	67	85	85
Solar control unit ECOTRONIC TECH	n	1	1	1	1
Collector: SOLAREVO V 2.1	n	1	not provided	2	not provided
Collector: overall gross surface	m^2	2.09	-	4.18	-
Collector: overall effective surface	m^2	1.96	-	3.92	-
CODE		**0XGU1MXA**	**0XDT0MXA**	**0XGU2NXA**	**0XDT0NXA**

> COMPLEMENTARY ACCESSORIES

ASSEMBLY FRAMES FOR SLOPED ROOF		CODE
	**COMPLETE FRAME** for no. **1 collector** (*)	076239X0
	COMPLETE FRAME for no. **2 collectors** (*)	076240X0

(*) In case of more than two collectors, use several kits in combination

FASTENING BRACKETS FOR SLOPED ROOF		CODE
	Kit 4 brackets for pantiles/tiles (**)	076242X0
	Kit 4 universal brackets (**)	076241X0

(**) Use 1 "Bracket kit" for each "Complete frame kit for pitched roof"

ASSEMBLY FRAMES FOR FLAT ROOF		CODE
	**BASE KIT** to be used for 1 collector mod. 2.1 V	076235X0
	**EXTENSION KIT** to be us ed for each **collector (mod. 2.1 V)** additional to the first one	076237X0

HYDRAULIC ACCESSORIES			CODE
	Premixed solar fluid PROSUN TP -15°C	2x5 kg	Z308904000
	PREMIXED SOLAR FLUID PROSUN -15°C	25 kg	Z308904010
	Premixed solar fluid PROSUN PLUS -27°C	25 kg	0YDI0KX0
	Thermostatic mixer connections 1/2"		013002X0
	Purge valve (de-aerator) for the solar circuit		072293X0

SOLAREVO V FORCED CIRCULATION FLAT SOLAR COLLECTOR





> PRODUCT CHARACTERISTICS

- **High efficiency** flat solar collector with **forced circulation** (max 10 for each battery)
- **Solar-keymark (EN 12875) certified** as one of the most efficient solar thermal collectors in the market (η0= 80%)
- **Highly selective aluminum absorber** with titanium oxide treatment
- **Sturdy frame** allows supported by two aluminum sticks offering a **neat and versatile installation**
- **Double-wall aluminum profile** 2,4mm offers increased durability and enhanced insulation
- High transparency, **prismatic tempered glass** (thickness 3,2 mm)
- **High performing absorber** made of a harp with laser-welded copper risers, and 0,5mm full plate ultra-selective surface.
- **Integrated support attachments** for ease of installation and universal compatibility
- The collector can easily and safely be adjusted on different types of **sloping or flat roof** supports
- ø 22 mm **compression** connecting/interconnecting fittings

MODEL		V 2.1	V 2.6
Dimensions (LxHxD)	mm	1230 x 1696 x 86	1230 x 2111 x 86
Gross surface area	m^2	2,09	2,60
Effective surface area	m^2	1,99	2,48
Empty weight	kg	34,5	41,2
Closed circuit volume	l	1,6	1,8
Stagnation temperature	°C	175,2	175,2
Absorption factor	%	95	
Emission factor	%	4	
Thermal collector insulation		40 mm HD mineral wool	
Heat transfer circuit fittings	Ø	22 mm	
Maximum primary circuit operating pressure	bar	10	
Fittings for collector	no.	4	
No. of pieces/pallets	no.	12	12
CODE		**0XGF1VWA**	**0XGF2VWA**

> COMPLEMENTARY ACCESSORIES

ASSEMBLY FRAMES FOR SLOPED ROOF		CODE
	**COMPLETE FRAME** for no. **1 collector** (*)	076239X0
	COMPLETE FRAME for no. **2 collectors** (*)	076240X0

(*) In case of more than two collectors, use several kits in combination

FASTENING BRACKETS FOR SLOPED ROOF		CODE
	Kit 4 brackets for pantiles/tiles (**)	076242X0
	Kit 4 universal brackets (**)	076241X0

(**) Use 1 "Bracket kit" for each "Complete frame kit for pitched roof"

ASSEMBLY FRAMES FOR FLAT ROOF		CODE
	**BASE KIT** to be used for 1 collector mod. 2.1 V	076235X0
	BASE KIT to be used for 1 collector mod. 2.6 V	076236X0
	**EXTENSION KIT** to be used for each **collector (mod. 2.1 V)** additional to the first one	076237X0
	EXTENSION KIT to be used for each **collector (mod. 2.6 V)** additional to the first one	076238X0

HYDRAULIC ACCESSORIES			CODE
	Premixed solar fluid PROSUN TP -15°C	2 x 5 kg	Z308904000
	PREMIXED SOLAR FLUID PROSUN -15°C	25 kg	Z308904010
	Premixed solar fluid PROSUN PLUS -27°C	25 kg	0YDI0KX0
	Thermostatic mixer connections 1/2"		013002X0
	Hydraulic connections (start set) for first/ last collector **(BASE)**		072291X0
	Hydraulic connections (interconnection set) **(EXTENSION)**		072292X0
	Purge valve (de-aerator) for the solar circuit		072293X0

WATER TREATMENT

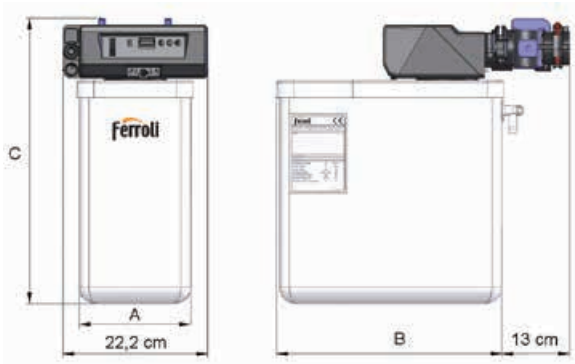
MICRO COMPACT, RELIABLE, AND HIGH-PERFORMANCE CABINET WATER SOFTENER FOR CONTROLLED WATER HARDNESS MANAGEMENT



- Made in Europe
- Compact softener with combined volume/time regeneration, suitable also for residential applications
- Automatic control valve, complete with accessories for correct installation
- System equipped with a blending device for residual hardness adjustment
- Valve supplied with by-pass
- Highly reliable and efficient softener with 4 liters of high-capacity exchange resin
- Electronic control ensures complete management of regeneration phases while keeping power, water, and salt consumption low
- The softener can be used for domestic and technological purposes. Its compact size allows installation in confined spaces
- Compact design suitable for under-sink installation

Note: Install a filter at the inlet to retain suspended particles (see Water Filters section)

Dimensions (mm)



MODEL		MICRO
Operating pressure min/max	bar	1.5 - 8
Power supply	V/Hz	220-50/60Hz
Salt consumption per regeneration	kg	0.42
Salt tank	kg	6
A	mm	178
B	mm	357
C	mm	435
Connections	-	3/4"
Weight	kg	5
Maximum cycle capacity / Liters of resin	m^3 °f / lt	5.25
Maximum cycle capacity	m^3 °f	21
Minimum flow rate	l/h	140
Maximum flow rate	l/h	1000
Power consumption	W	6
CODE		**0YARAEX0**

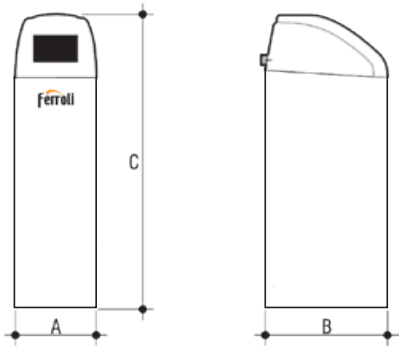
SWEET WATER

CABINET WATER SOFTENERS, RELIABLE AND HIGH-PERFORMANCE, FOR CONTROLLED WATER HARDNESS MANAGEMENT



- Made in Europe
- Softener with combined volume/time regeneration
- Electromechanical valve with automatic management, complete with accessories for correct installation
- System equipped with a blending device for residual hardness adjustment
- Valve supplied with by-pass
- Electronic control ensures complete management of regeneration phases while keeping power, water, and salt consumption low
- Constant display of treated water volume
- The SWEET WATER series softeners, reliable and compact, guarantee maximum efficiency thanks to 8, 15, and 30 liters of high-capacity exchange resin
- Easy valve installation and programming make SWEET WATER suitable for various contexts, both residential and technological
- Simple and compact design minimizes installation costs
- The softener can be used for domestic and technological purposes

NOTE: Install a mechanical filter at the softener inlet to retain suspended particles (see Water Filters section)



MODEL		SWEET WATER 8	SWEET WATER 15	SWEET WATER 30
Operating pressure min/max	bar	1.5 - 6	1.5 - 6	1.5 - 6
Power supply	V/Hz	230/50	230/50	230/50
Salt consumption per regeneration	kg	1.20	2.25	4.5
Salt tank	kg	25	50	50
A	mm	310	310	310
B	mm	435	435	435
C	mm	680	1135	1135
Connections	-	3/4" M	3/4" M	3/4" M
Weight	lt	8	16	30
Maximum cycle capacity / Liters of resin	kg	16	27	40
Maximum cycle capacity	m^3 °f	48	90	180
Minimum flow rate	l/h	320	600	1200
Maximum flow rate	l/h	1200	1500	3400
Power consumption	W	6	6	6
CODE		**0YARABXA**	**0YARACXA**	**0YARADXA**

DOUBLE SVT N

DUAL-BODY WATER SOFTENERS WITH SMART ELECTRONICS FOR WATER AND SALT SAVINGS

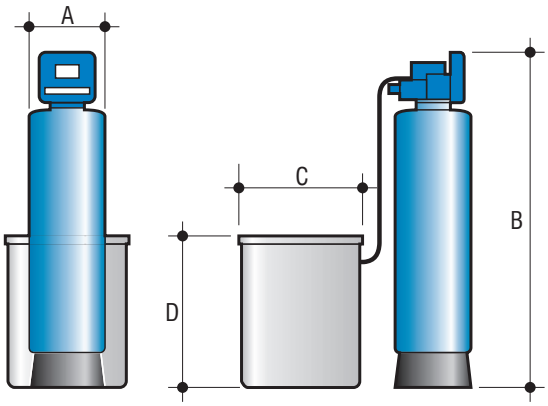


- Softener with combined volume/time regeneration
- Automatic control valve, complete with volumetric meter
- System equipped with blending device for residual hardness adjustment
- Separate polyethylene salt tank of small dimensions, facilitating installation in boiler rooms
- Electronic control ensures complete management of regeneration phases while keeping energy, water, and salt consumption low
- Display of treated water volume
- The softener can be used for domestic and technological purposes
- Models in the "Double" range are not pre-loaded
- Models DOUBLE SVT N 50 and 75 are supplied with proportional by-pass
- Model DOUBLE SVT N 125 is supplied with remote by-pass

Note: Install a filter at the inlet to retain suspended particles (see Water Filters section)

SMART TECHNOLOGY - HIGH ENVIRONMENTAL SUSTAINABILITY

WATER SAVING – SALT SAVING – IMPROVED WATER QUALITY



REASONS TO CHOOSE IT:

- Salt absence indication
- High outlet water quality after regeneration
- Regeneration and discharge water quality control through conductivity parameter monitoring
- Innovative quick brine preparation system
- Salt consumption reduction over 30%
- Ready for home automation management

MODEL		DOUBLE SVT N 50	DOUBLE SVT N 75	DOUBLE SVT N 125
Operating pressure min/max	bar	1.4 - 6	1.4 - 6	1.4 - 6
Power supply	V/Hz	230/50	230/50	230/50
Standard salt consumption per regeneration	kg	< 5.25	< 7.88	< 13.13
Salt consumption per regeneration*	kg	7.5	11.25	18.75
Salt tank	kg	150	200	300
A	mm	315	341	406
B	mm	1446	1586	2069
C	mm	530	500	710
D	mm	800	1050	1060
Inlet/outlet connections	-	1" 1/4	1" 1/4	1" 1/2
Weight	kg	85	150	175
Resin volume (liters)	lt	50	75	125
Maximum cycle capacity	m^3 °f	275	412	687
Minimum flow rate	l/h	2400	4800	7500
Maximum flow rate	l/h	3000	7500	10000
Power absorption	W	8	8	8
CODE		**0YADCMX0**	**0YADEMX0**	**0YADGMX0**

* The indicated salt consumption does not include the positive reduction effect due to the electronic system. Consumption values are calculated considering inlet water at 30°f. Data may vary depending on inlet water quality and daily consumption.
** The indicated salt consumption includes the positive reduction effect due to electronics, average consumption, and discharge conductivity parameter control.

DOUBLE PLUS SVT N

DUAL-BODY WATER SOFTENERS WITH SMART ELECTRONICS FOR WATER AND SALT SAVINGS

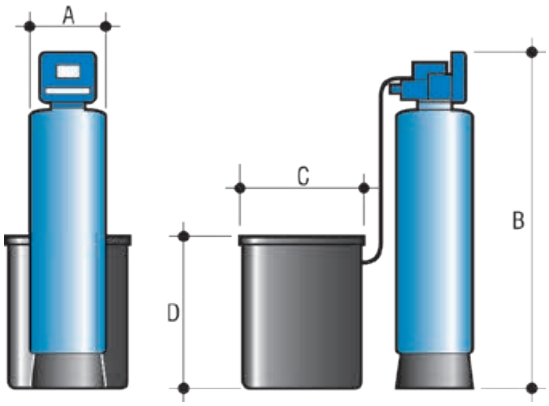


- Softener with combined volume/time regeneration
- Automatic control valve, complete with volumetric meter
- Heavy-duty valve for high-flow management (models 250, 300). Ensures service quality even during peak flow periods
- Separate polyethylene salt tank of small dimensions, facilitating installation in boiler rooms
- New and advanced electronic management guarantees complete control of regeneration phases while maintaining low energy, water, and salt consumption
- Display of treated water volume
- The softener can be used for domestic and technological purposes
- Models in the "Plus" range are not pre-loaded
- Model DOUBLE PLUS SVT N 175 is supplied with remote by-pass

Note: Install a filter at the inlet to retain suspended particles (see Water Filters section)

SMART TECHNOLOGY - HIGH ENVIRONMENTAL SUSTAINABILITY

WATER SAVING – SALT SAVING – IMPROVED WATER QUALITY



REASONS TO CHOOSE IT:

- Salt absence indication
- High outlet water quality after regeneration
- Regeneration and discharge water quality control through conductivity parameter monitoring
- Innovative quick brine preparation system
- Salt consumption reduction over 30%
- Ready for home automation management

MODEL		DOUBLE PLUS SVT N 175	DOUBLE PLUS SVT N 250
Operating pressure min/max	bar	1.4 - 6	1.4 - 6
Power supply	V/Hz	230/50	230/50
Standard salt consumption per regeneration	kg	< 15.75	< 26.25
Salt consumption per regeneration*	kg	22.5	37.5
Salt tank	kg	300	500
A	mm	539	610
B	mm	2129	2407
C	mm	710	1160
D	mm	1060	1350
Inlet/outlet connections	-	1" 1/2	2"
Weight	kg	246	387
Resin volume (liters)	lt	175	225
Maximum cycle capacity	m^3 °f	962	1375
Minimum flow rate	l/h	9000	13000
Maximum flow rate	l/h	15000	18000
Power absorption	W	8	8
CODE		**0YADIMX0**	**0YADKMX0**

* The indicated salt consumption does not include the positive reduction effect due to the electronic system. Consumption values are calculated considering inlet water at 30°f. Data may vary depending on inlet water quality and daily consumption.
** The indicated salt consumption includes the positive reduction effect due to electronics, average consumption, and discharge conductivity parameter control.

DOSACOMPACT

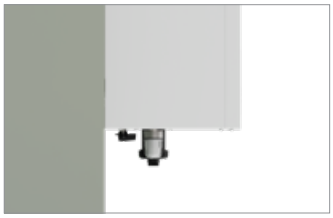
COMPACT DOSING UNIT FOR INSTALLATION UNDER BOILER/WATER HEATER



- Fully Made in Italy product
- Ultra-compact volumetric proportional polyphosphate dosing unit for domestic water use
- Needle valve for dosage adjustment with by-pass function
- Supplied with 2 long-life crystallized cartridge refills
- Can be installed either horizontally or vertically with 90° fittings
- Chrome-plated brass head and high-strength Tritan plastic bowl
- Replacement cartridges available as accessories







MODEL		DOSACOMPACT
Connections		1/2"
Max flow rate	m^3/h	1.5
Operating pressure	bar	max 8
Pressure drop	bar	0.2
Refill autonomy	mc	up to 19
Refill type		polyphosphate cartridge
Head		chrome-plated brass
Operating temperature	°C	max 45
CODE		**0YBSGTX0**

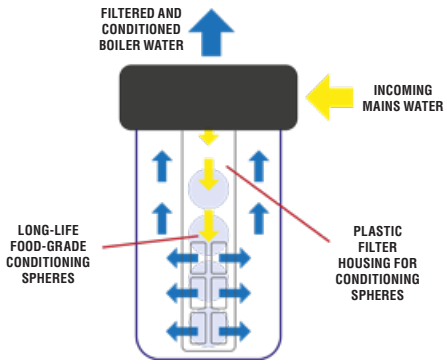
> ACCESSORIES

CODE	DESCRIPTION
0YBSKTX0	RECHARGE KIT: 4 crystallized polyphosphate cartridge refills

DOSAPLUS POLYPHOSPHATE/SILICATE DOSING FILTER DOUBLE ACTION



- Performs a dual function: mechanical filtration and phosphate/silicate dosing
- Protects pipes, fittings, boilers, water heaters, and other hot-water system components
- Removable and cleanable synthetic filter cartridge with housing for conditioning spheres
- Long-life phosphate/silicate conditioning spheres with high sequestering, dispersing, and stabilizing power
- Anti-scale and anti-limescale protection provided by phosphates, and anti-corrosion protection provided by silicates
- Treated water can be heated up to 55°C, with maximum hardness of 35°f, beyond which the conditioning agent loses its effectiveness
- Technopolymer head with inlet shut-off and vent
- High-strength Grilamid plastic bowl
- 1/2" connections
- Replacement cartridges (filter + conditioning spheres) available as accessories
- Colored glass sphere acts as a cartridge depletion indicator











INSTALLATION WITH DEFENDER





MODEL		DOSAPLUS
Pressure drop	bar	0.25
Flow rate	lt/h	1500
Maximum operating pressure	bar	8
Width	mm	70
Height	mm	150
Connections	-	1/2"
CODE		**0YBD0QX0**

> ACCESSORIES

CODE	DESCRIPTION
0YDS0KX0	DOSAPLUS RECHARGE KIT: 2 filter-doser cartridges with conditioning agent included

DEFENDER MAGNETIC SLUDGE SEPARATOR WITH FILTER

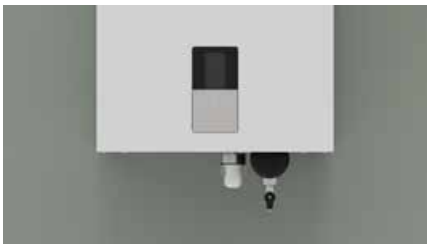


- Magnetic sludge separator filter made of glass-fiber reinforced nylon with stainless-steel mesh, capable of retaining dirt, sludge, and ferrous residues from system water, ensuring correct boiler operation. Made in Italy
- Encapsulated high-power magnet (12,900 Gauss)
- Double-stage stainless-steel mesh (300 – 800 µm)
- Drain valve included
- The magnet can be removed without opening the separator, allowing cleaning and flushing even while closed. Cleanable in both co-current and counter-current flow.
- Brass adapter 3/4" F x 3/8" M
- Drain valve 3/8" F
- Two fittings 3/4" (2 cm and 4 cm)











MODEL		DEFENDER 3/4"
Flow rate	m^3/h	1.6
Operating pressure	bar	6
Connections	-	3/4"
CODE		**0YBSHTX0**

> ACCESSORIES

CODE	DESCRIPTION
Z308903760	MOLY PACK WITH 12 SACHETS
Z308903940	MOLY K – 1 KG

SYSTEM CONTROL COMPONENTS

ADVANCED TEMPERATURE CONTROL

ONLY FOR BOILERS THAT CAN BE COMBINED WITH REMOTE CONTROL



CONNECT Wi-Fi modulating remote control with timed thermostat function

- Remote control for **home comfort management, even via Smartphone**.
- Possibility to manage **up to 8 zones** through the use of additional environmental units
- Connection to home Wi-Fi network for internet access via supplied RF/Wi-Fi receiver.
- **CONNECT APP available** for boiler on/off and home comfort management remote heating/hot domestic water via Smartphone (iOS and Android)
- Boilers can be remotely controlled via the APP in “advanced” mode by means of the OpenTherm connection and in “basic” mode by means of the ON/OFF connection.
- Modulating flow temperature control with room climate correction, for boilers connected via OpenTherm (“advanced”).
- Modulating flow temperature control with climatic correction via outdoor temperature (detected by internet or optional outdoor sensor), for boilers connected via OpenTherm (“advanced”)
- **Improves the average seasonal efficiency in space heating by +4%** when combined with boilers via the OpenTherm connection.
- Room control with operation as ON/OFF timed thermostat, for boilers connected via on/off (“basic”)
- Weekly hourly programming in 30-minute intervals (via the CONNECT APP).
- **Outdoor temperature reading from the Internet** (via CONNECT APP) or from optional outdoor probe (if available)
- Alarm display, even via CONNECT APP
- Operating mode: Off, Holiday, Automatic, Manual
- Three modifiable temperature levels: Comfort, Economy, Antifreeze
- Battery status indicator (even via CONNECT APP)
- Material supplied: 2 batteries 1.5V TYPE AAA, table stand, 230 VAC power supply, USB cable boiler connection, set of screws for wall mounting, user manual.
- **Advanced modulating temperature control** in Class VI in accordance with ErP directive (when combined with boilers via OpenTherm connection)
- SYSTEM : in combination (via OpenTherm connection) with a Ferroli boiler with seasonal efficiency ηs 94%, constitutes a heating system with rating A+
- **Connection to the home WiFi** network for internet access via the included RF/WiFi receiver. **Wi-Fi:** 802.11 b/g/n standard – 2.4 GHz frequency. Check that a 2.4 GHz band is available or can be enabled in the Wi-Fi router settings



RF/Wifi Receiver

Google Play

App Store



CODE	DESCRIPTION
013011XA	**WI-FI MODULATING REMOTE CONTROL WITH TIMED THERMOSTAT FUNCTION** (room control + RF/Wi-Fi receiver)
013051X0	**ROOM UNITS FOR ADDITIONAL ZONES** (room control only, maximum 8 zones. Example: No. 1 cod. 013011XA + maximum No. 7 cod. 013051X0)



> FZ4 B ZONE BOARD

- board for zone systems (max. 3) of which two mixed and one direct operating in combination with both modulating and ON/OFF timed thermostats
- manages sliding and differentiated delivery temperatures between zones

* Cannot be combined with Romeo N (cod. 013032XA) and Cronorem (cod. 013114XA)

CODE	DESCRIPTION
013013X0	**BOARD FOR FZ4 B ZONE SYSTEMS**

ADVANCED TEMPERATURE CONTROL

ONLY FOR BOILERS THAT CAN BE COMBINED WITH REMOTE CONTROL



Receiver
for Wireless version



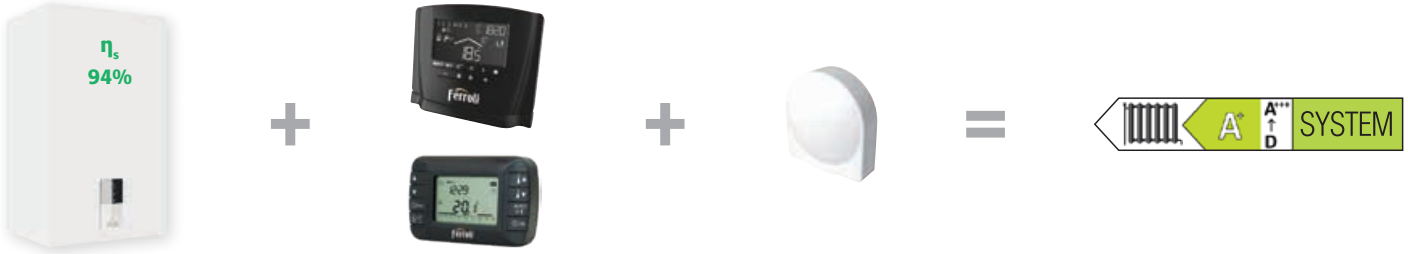
Table stand x Wireless version

> ROMEO N (MODULATING REMOTE CONTROL)

- Connection with boiler via **OpenTherm** bus
- **3" display**
- Setting of heating and domestic hot water flow temperature and viewing of errors
- **Holiday function:** possibility to switch the heating/DHW off for a settable period from 1 hour to 45 days
- **Pre-heating function:** anticipates the start of heating in order that the set room temperature is reached at the start of the programmed period
- **Weekly heating programming** with 6 separate daily time slots
- **Weekly domestic hot water programming** ECONOMY/COMFORT (for boilers with cylinder)
- **Sliding temperature** operation with **outdoor climate correction** using outdoor probe (optional) to be connected to the boiler
- **Sliding temperature** mode with **room temperature compensation**, adjustment of flow temperature depending on the room temperature
- **System filling:** possibility to activate the filling unit in automatic/manual mode (only in combination with MAXIMA)
- Input for control with **telephone on/off contact**
- **Models:** N wired - N RF with Wireless transmitter
- **Advanced modulating temperature control** (Class V in accordance with ErP directive, Class VI when outdoor sensor is connected to boiler)
- SYSTEM : Romeo N together with the external probe, combined with a Ferroli boiler with seasonal efficiency η_s 94%, constitute a heating system with an A+ energy efficiency rating

CODE	DESCRIPTION
013032XA (*)	**ROMEO N - WIRED TIMED THERMOSTAT**
013033XA	**ROMEO N RF - WIRELESS TIMED THERMOSTAT**

(*) *ROMEO N cannot be combined with oil-fired boilers in the ATLAS D ECO or SILENT D ECO family*



Ferroli Boiler	Romeo N / Cronorem	External probe	Energy class of system A+



> CRONOREM (MODULATING REMOTE CONTROL)

- Connection with boiler via **OpenTherm** bus
- **3" display**
- Setting of heating and domestic hot water flow temperature and viewing of errors
- **Holiday function:** possibility to switch the heating/DHW off for a settable period from 10 minutes to 45 days
- **Weekly heating programming** with 4 separate daily time slots
- **Sliding temperature** operation with **outdoor climate correction** using outdoor probe (optional) to be connected to the boiler
- **Sliding temperature** mode with **room temperature compensation**, adjustment of flow temperature depending on the room temperature
- **System filling:** possibility to activate the filling unit in automatic/manual mode (only in combination with MAXIMA)
- **Advanced modulating temperature control** (Class V in accordance with ErP directive, Class VI when outdoor sensor is connected to boiler)
- SYSTEM : Cronorem together with the external probe, combined with a Ferroli boiler with seasonal efficiency η_s 94%, constitute a heating system with an A+ energy efficiency rating

CODE	DESCRIPTION
013114XA	**CRONOREM - WIRED TIMED THERMOSTAT**

ADVANCED TEMPERATURE CONTROL

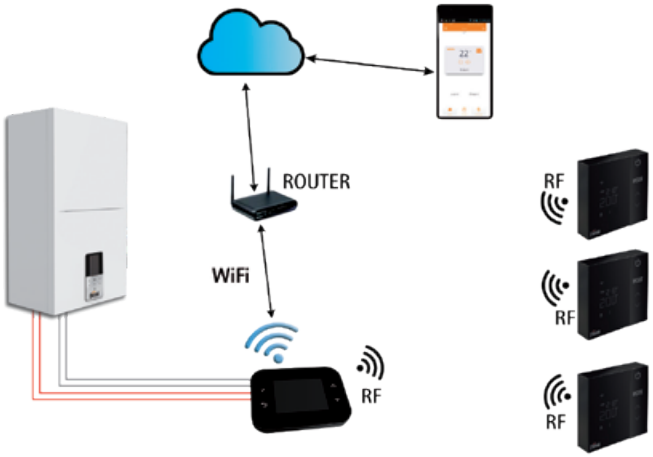
CAN BE COMBINED WITH HEAT PUMPS AND HYBRIDS IN THE OMNIA S / ST RANGE



CONNECT CRP (ADVANCED REMOTE CONTROL)

- 3.2" dot matrix colour display with 4 Capsense buttons
- Communication with generator via Modbus RTU
- Weekly programming
- System management in heating, cooling, DHW
- Silent, ECO, Fast DHW and OPTIMUM START & STOP functions
- Alarm display
- RF connection of up to an additional 7 Connect CRP Zones (up to 8 zones, one of which is managed by the CRP itself)
- Possibility of management via "Ferroli CRP" APP, available for Android and IOS
- **Connection to the home WiFi** network for internet access. **Wi-Fi:** 802.11 b/g/n standard – 2.4 GHz frequency. Check that a 2.4 GHz band is available or can be enabled in the Wi-Fi router settings





CODE	DESCRIPTION
013069XA	CONNECT CRP



CONNECT CRP ZONES (ZONE CONTROL TO BE CONNECTED VIA RF TO CONNECT CRP)

- Zone setpoint temperature editing
- Operating modes for both heating and cooling: automatic, timed manual, permanent manual or off
- Hourly zone programming from APP or CRP
- Fault display
- Battery power supply (2 x AA)
- RF connection
- Contact for zone valve management
- Wall or table-top installation (freestanding base)
- CONNECT CRP manages up to 7 additional CONNECT CRP ZONES



BASE FOR FREE-STANDING INSTALLATION INCLUDED

CODE	DESCRIPTION
013055XA	CONNECT CRP ZONES

THETA+ THERMO-CONTROL FOR HEATING SYSTEM AND CASCADE MANAGER



Climatic thermo-unit control for heating systems, active management of heating generators cascade and direct control of one stage, two stage and modulating burners.

Every single unit control THETA+ can manage a heating system with:
- 2 Low temperature mixed zones
- 1 High temperature direct zone
- 1 Hot domestic water tank
- Thermal solar system or biomass generator or multy-energy puffer, via two variable output
- Cascade of heating generators up to 8 units.

The unit control THETA+ is supplied complete as standard with:
- Connection terminal block
- 1 External probe
- 1 Immersion probe (2 meters)
- 1 Immersion probe (5 meters)
- 2 Contact probes (4 meters)

The thermoregulation system, in addition to the unit control THETA+, is accompanied with other accessories to complete the heating system control:



Room unit RS-L
- Manages temperature of dedicated zone
- It can manage from remote system setting
- Two-wire bus

Room sensor RFF
- Manages room temperature
- Two-wire bus

Installation wall kit WG 500
- On/Off switch
- Totally wired
- 6,3 A safety fuse

Kit cascade management ZM KM-OT
- Install one kit ZM KM-OT in each boiler of the cascade
- Up to 8 boiler in cascade

For the heating system with more three zones, is possible to make a cascade of THETA+ unit control (max 5 units). THETA+ system can manages directly a one-stage, two stage or modulating burner.

> THETA+ SYSTEM COMPONENTS

	DESCRIPTION	CODE
	**THETA+ SET** Central unit control for the thermoregolation of the heating system and cascade manager. Supplied as standard complete of: - Connection terminal block - 1 External probe - 1 Immersion probe (2 meters) - 1 Immersion probe (5 meters) - 2 Contact probes (4 meters)	013060X0
	**THETA+ RS-L** Room unit per temperature control and parameters setting, from remote, of the heating system	013061X0
	**THETA RFF** Room sensor	013062X0
	**WG 500** Kit for wall installation	013064X0

	DESCRIPTION	CODE
	**THETA ZM KM-OT** Kit for boiler cascade management via Opentherm	013063X0
	**TF A20-50-03** Immersion probe (DHW tank) 5 meters	013065X0
	**VF 204 B** Contact probe (Mixed zone) 4 meters	013066X0
	**PT 1000** Immersion probe (Solar thermal) 2,5 meters	043007X0
	**AF 200** External probe	013068X0

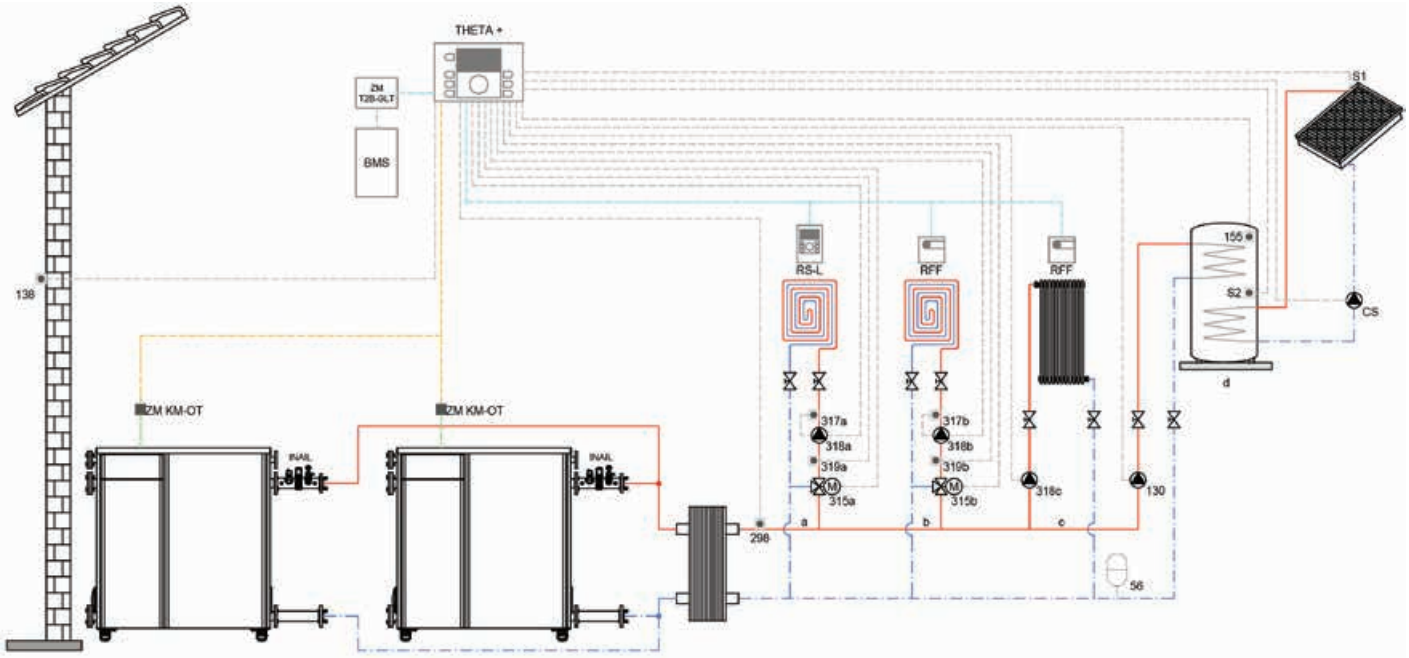
THETA+ THERMO-CONTROL FOR HEATING SYSTEM AND CASCADE MANAGER

THETA+ SYSTEM APPLICATION EXAMPLE OF DIAGRAM

The first ring was designed with a cascade of two MACH controlled by a central unit THETA+ via Open Therm (1 ZM KM-OT for each boiler of cascade). The central unit can manage up to 8 boilers in cascade. For installation with more of 8 boilers will have to install two or more THETA+ (max 5).

The second ring consist in three heating circuits (two mixed at low temperature and one direct at high temperature), a storage with double exchanger for the DHW and a thermal solar system.

The central unit THETA+ in combination with room units/sensors can manage each component of the heating system included the thermal solar system.
In case of heating system with several zones and systems is possible manage all with a cascade of THETA+ (max 5), up to 10 mixed zones and 5 direct zones.
The heating zone can be managed by three remote room unit (RS-L) or by three room sensors (RFF) or a mix of the two.



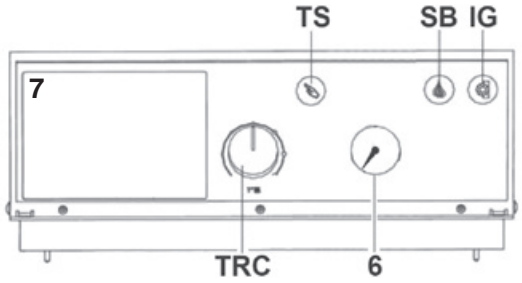
THETA+ Central unit control for the thermoregulation and cascade manager **ZM KM-OT** Accessories for the cascade management via Open-Therm **RS-L** Remote room unit **RFF** Room sensor **ZM T2B-GLT** Interface for Building Management System (BMS) **BMS** Building Management System **S1** Flow probe for solar system (PT 1000) **S2** Temperature probe for DHW tank (supplied as standard with THETA+) **155** Temperature probe for DHW tank (supplied as standard with THETA+) **130** DHW circulator **CS** Solar system circulator **a** Low temperature mixed zone **b** Low temperature mixed zone **c** High temperature direct zone **d** DHW circuit with tank, double exchanger type **315 a/b** Motorized mixing valve **318 a/b/c** Heating system circulator **317 a/b** Safety thermostat **319 a/b** Flow probe for mixed zone (supplied as standard with THETA+) **298** Probe for flow heating system collector (supplied as standard with THETA+) **138** External sensor (supplied as standard with THETA+) *- - - ZM KM-OT *- - - RS-L/RFF/ZM T2B-GLT *- - - OpenTherm

THERMOSTATIC CONTROL BOARD FOR STEEL PRESSURISED GENERATORS



> THE ADVANTAGES:

- Can be combined with single-stage and two-stage jet burners
- Double contact regulation thermostat
- Anticondensation function with minimum threshold for starting the adjustable pump
- Set-up for the installation of a temperature control



> KEY

IG Main switch
SB Blocked burner light
TRC Adjustment thermostat
TS Safety Reset / Thermostat
6 Thermometer
7 Temperature control set-up (not supplied)

CODE	DESCRIPTION
0Q2K10XA	THERMOSTATIC CONTROL BOARD

NOTES

NOTES

NOTES

Ferroli



In accordance with the constant efforts to improve its range of products and thus raise the level of customer satisfaction, the Company stresses that the appearance and/or size, technical specifications and accessories may be subject to variation.

cod. 89CG0015/01 - ed. 05.2026

Ferroli SpA
37047 San Bonifacio (VR) Italy - Via Ritonda 78/A
Customer Service +39.045.6179111 - fax +39.045.6100233
export@ferroli.com - www.ferroli.com

