

ferroli



Divatop D

Instantaneous wall-mounted boilers with double exchanger and preset for system solar



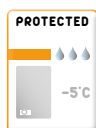
EFFICIENCY, FUNCTIONALITY, STURDINESS

DIVATOP D is the new wall-mounted boiler with double exchanger offered by Ferrol. It is designed to fully meet the requirements of a «sturdy» product under every point of view.

- > **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** of 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 with 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)



PRODUCT IN PILLS



Operation in a **partially protected area** with a minimum temperature of **-5°C as standard**



Appliance that works with **climatic adjustment** at a sliding system temperature (optional external temperature probe)



Remote control of the boiler parameters via the remote control



Appliance that can be used with **preheating** systems for **domestic hot water**



Product for extra EU markets only



Appliance specifically designed to feature a **particularly simple** installation and maintenance

THE RANGE

Seven models for heating and for production of domestic hot water

model C24 - 32

NATURAL DRAUGHT, OPEN FLUE
THERMAL OUTPUT 23.5-31.3 kW
DHW 13.5-17.9 l/min at Δt 25°C

model F24 - 32 - 37

FORCED FLUE, ROOM SEALED
THERMAL OUTPUT 24-32-37 kW
DHW 13.8-18.3-21.1 l/min at Δt 25°C

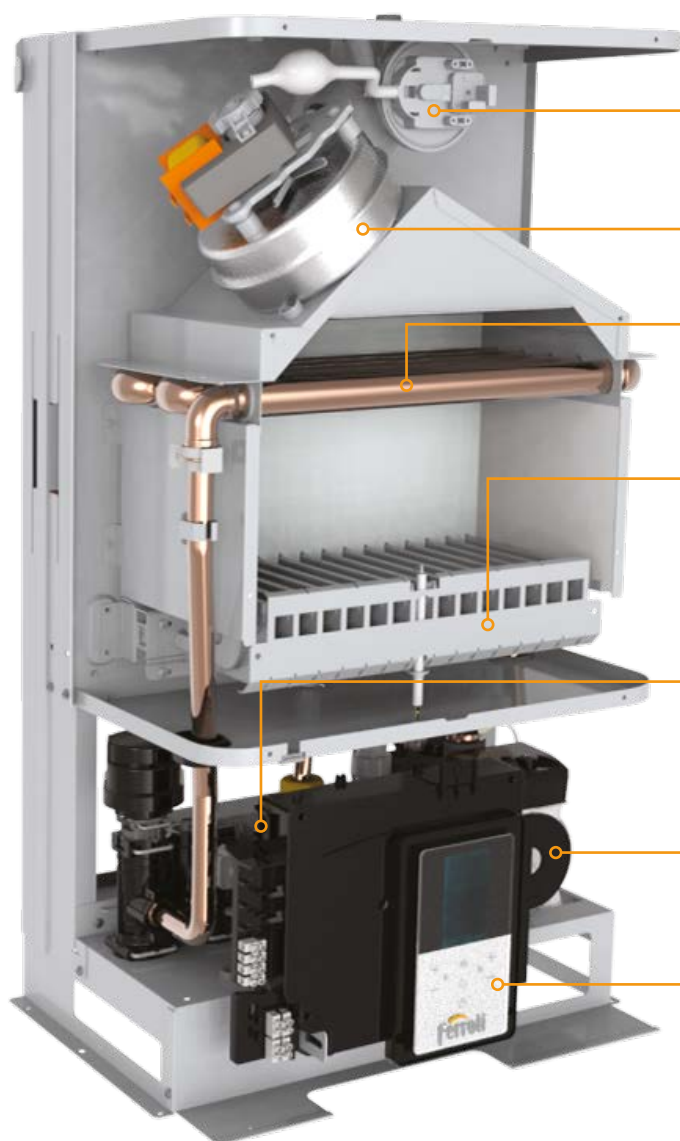
model HF24 - 32

FORCED FLUE, ROOM SEALED
THERMAL OUTPUT 24-32 kW



COMPONENTS

Product pluses



AIR PRESSURE SWITCH

With anti-condensing fitting

FAN

PRIMARY EXCHANGER

Primary central heating copper exchanger, protected by a non-toxic aluminium treatment

BURNER

Burner is made in stainless steel sections. Modulation occurs in central heating and domestic hot water mode

NEW HYDRAULIC GROUP

Specifically designed to allow quick and easy maintenance by the installer

PUMP

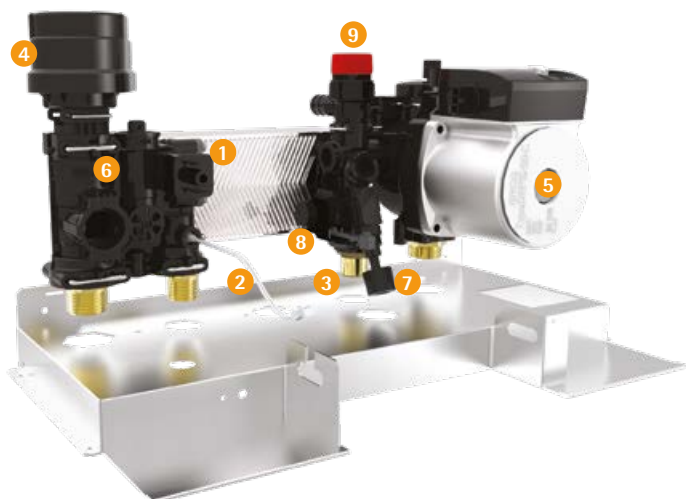
Settable on 3 speeds

CONTROL BOARD

New user interface with «capsense» technology without mechanical keys, 2.8" graphical display

FOCUS ON ...

New hydraulic group



New hydraulic group specifically designed to allow quick and easy maintenance by the installer.

The disassembly and **replacement of the plate exchanger, if required**, can only take place **by removing two allen bolts** that can be accessed from the front.

KEY 1 Water pressure switch 2 DHW sensor 3 DHW filter - flow restrictor 4 Electric diverting valve 5 Pump with automatic air vent 6 Automatic bypass 7 System filling tap 8 DHW flow meter 9 3 bar relief valve combined with drain tap

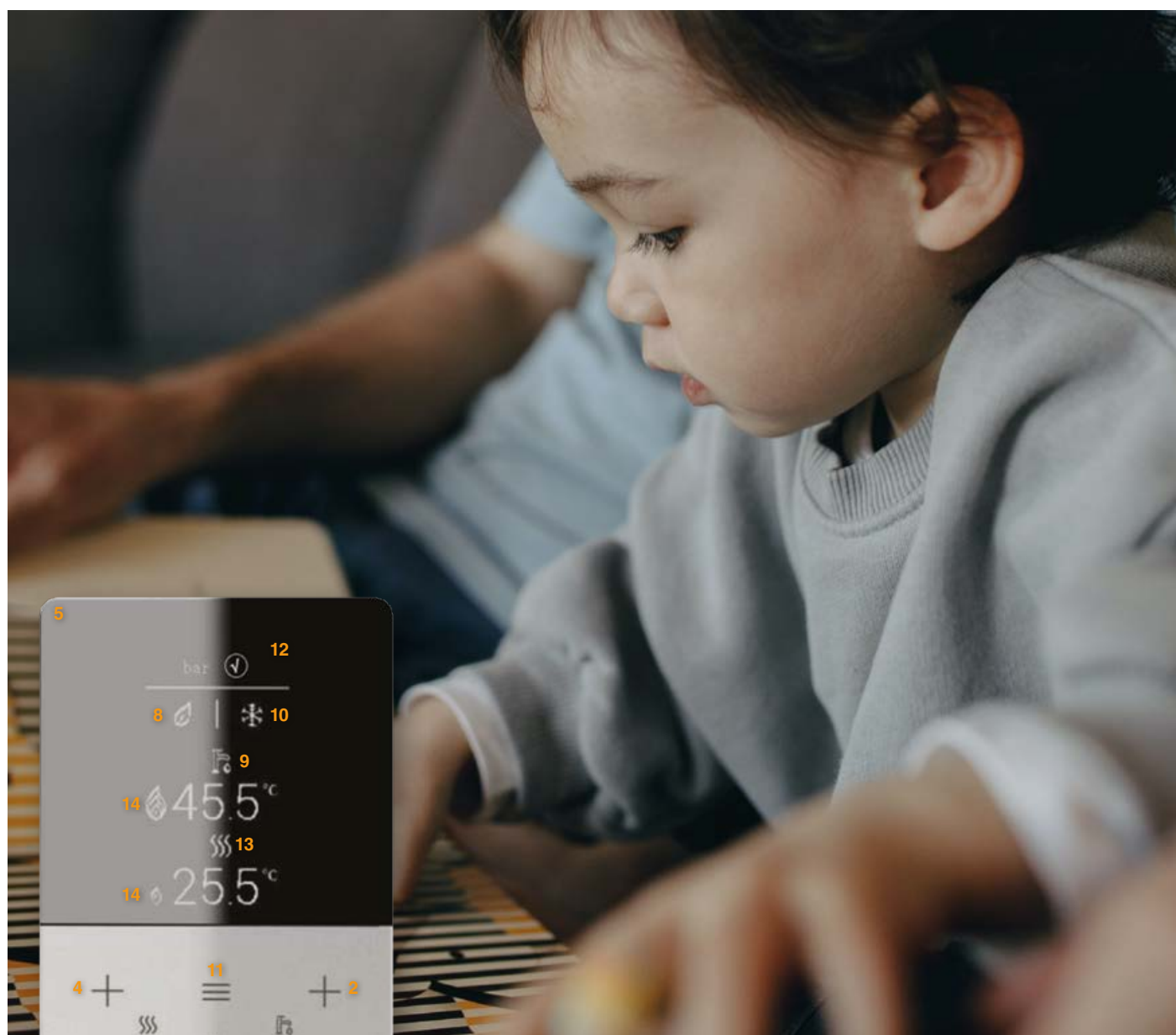


BOILER CONTROL

Control board and functions

The 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, thus customising operation of the appliance to control room comfort according to one's needs.

Thanks to the **remote connection via bus** this can even be done directly from the CONNECT remote control, also using your smartphone.

**EASY
CONTROL**

KEY 1 Key to decrease DHW temperature setting **2** Key to increase DHW temperature setting
3 Key to decrease heating system temperature setting **4** Key to increase heating system temperature setting **5** Display **6** Back key **7** "Winter", "Summer", "Appliance OFF", "ECO", "COMFORT" mode selection key **8** Eco mode indication **9** DHW mode indication **10** Summer/Winter mode indication **11** Menu / confirm key **12** Pressure status **13** Heating mode indication **14** Burner on indication



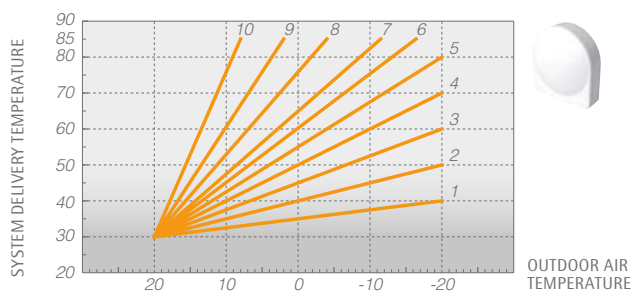
REMOTE CONTROL

Wired solution: Romeo N



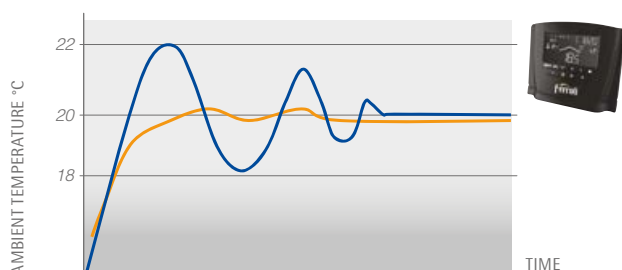
DIVATOP D can be coupled with a wide range of remote control timers for adjusting and controlling the device.

The ROMEO N range comprises several models with weekly comfort programming and the option to choose either wired or wireless connection.



EXTERNAL CLIMATIC COMPENSATION

With connection to the external probe, DIVATOP D can change the **system's temperature based on the outdoor temperature** measured according to the climatic curves set, thus ensuring greater user comfort as the outdoor climate conditions change. This function is inside the boiler's electronic board and **does not require a remote control**, thus facilitating setting operations in the event of replacement.



ENVIRONMENTAL CLIMATIC COMPENSATION

The modulating function of ROMEO N allows the boiler's **power to be modulated** as the **value of the set room temperature** is reached. This improves the quality of comfort by eliminating heat peaks with consequent energy savings.

WITH ROMEO N REMOTE CONTROL TIMER

WITH NON-MODULATING AMBIENT THERMOSTAT



REMOTE CONTROL

Wireless solution: Connect



Control

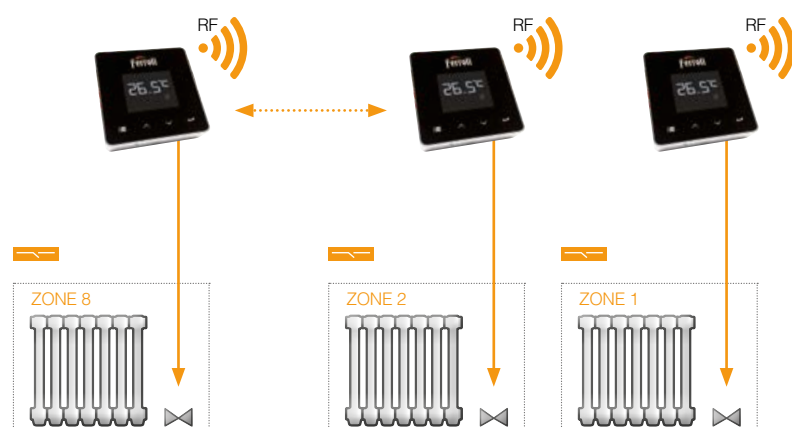


RF/Wi-Fi receiver



- It can manage **until 8 zones** by additional control units
- **Connection to the home Wi-Fi network** through the supplied RF/WiFi receiver
- CONNECT APP available for switching the boiler on and off and **managing home comfort** for heating/DHW via remote control from Smartphone (iOS and Android)
- **Maximisation of ambient comfort** with modulating regulation of the flow temperature through the **Ambient Climatic Compensation (ACC) differentiated for each zone and Outdoor Climatic Compensation (OCC)** through **outdoor temperature detected directly from the Internet** (or from an optional outdoor probe)
- **Improves ambient heating medium seasonal efficiency by +4%**
- **Weekly hourly programming in 30-minute intervals** via APP CONNECT
- **Operating mode:** Off, Holiday, Automatic, Manual
- **Three modifiable temperature levels:** Comfort, Economy, Antifrost

MULTIZONE MANAGEMENT





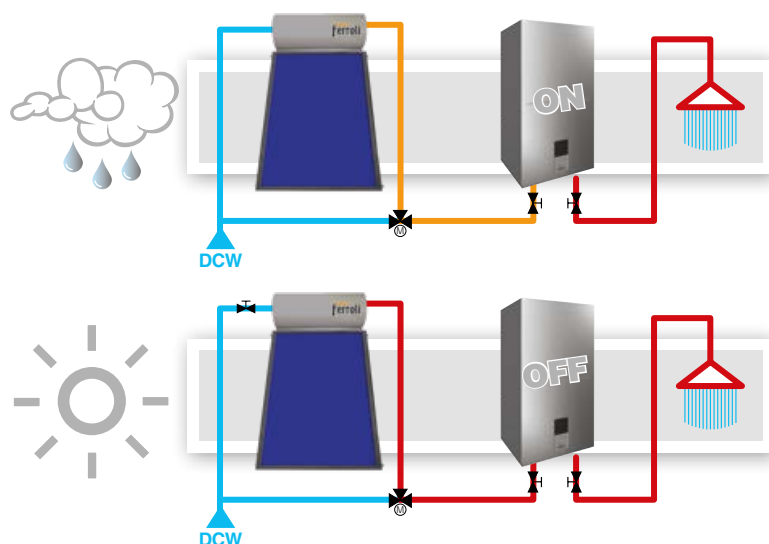
COMFORT AND SAFETY

Functions

The designers have considered a set of functions that are able to guarantee the quality of DHW, the best power supply to the heating system as well as a longer service life of the device.

SUN EASY FUNCTION

DIVATOP D was designed to be installed easily into systems built with the most innovative technologies. The SUN EASY system is equipped with electronics that **simplify operation with solar panels**, both with natural and forced circulation. A sensor situated on the DHW circuit constantly controls the pre-heated water temperature from the solar panels, providing burner ignition only if the said temperature drops below the level required to ensure optimal user comfort.



In case of insufficient irradiation and therefore the domestic hot water being modestly pre-heated, the boiler will contribute with the necessary heat to reach the required setpoint temperature.

If the sun and the solar system fulfil their "duty", no integration from the boiler will be necessary; the hot water will be conveyed to the tap, without additional devices being required, with the mixing of the thermostatic valves.

ANTIFROST

Also in standby-mode, in case the temperature in the boiler drops to 5°C (temperature detected by CH or DHW sensor), the burner is automatically ignited at the minimum output and pump is also switched on. Thereby the appliance is protected against damages caused by frost. This function is active when the boiler is gas and power supplied.

POST-CIRCULATION

This function permits to recover all heat stocked for thermal inertia in the central heating exchanger and transfer it to the heating system, and as a consequence to the rooms. It is a timed function (with customisable span) and it is active after the burner switches off in heating mode.

TEMPERATURE COMPENSATION OPERATION

The "outside probe" kit can be installed to operate the boiler with system flow temperature compensation. This means that without using the buttons on the system's temperature controller, the boiler automatically adapts to the variations in the outside temperature. As a result, this results in energy savings while still guaranteeing maximum comfort for the user.

EASY CONTROL

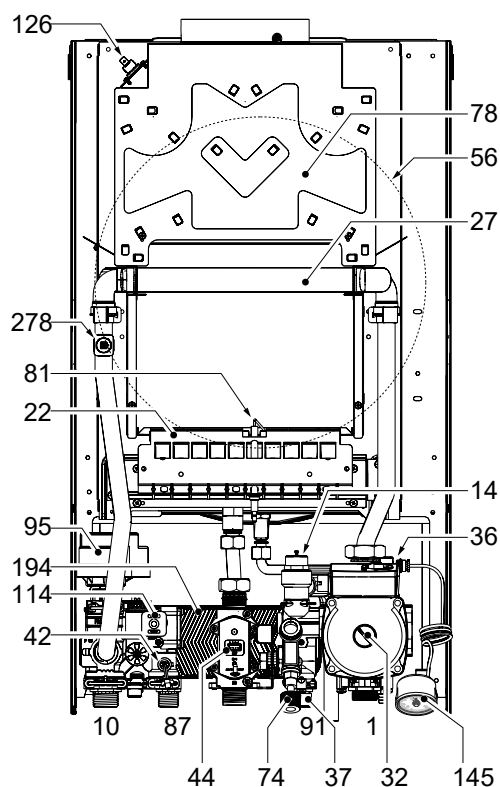
The Opentherm communication protocol is adopted in DIVATOP D control board. Opentherm allows integration of other system ancillaries, such for example, ROMEO N / CONNECT remote control, specially studied to combine with the boiler microprocessor operational logics. Opentherm, as a digital protocol, permits complete boiler-satellite integration, with full control of functions and information from the boiler and likewise from its satellite.



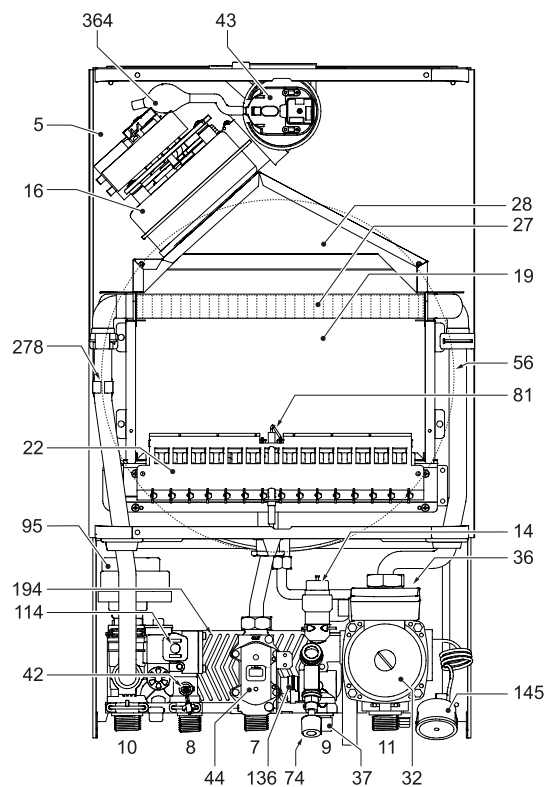
SPECIFICATIONS

Components

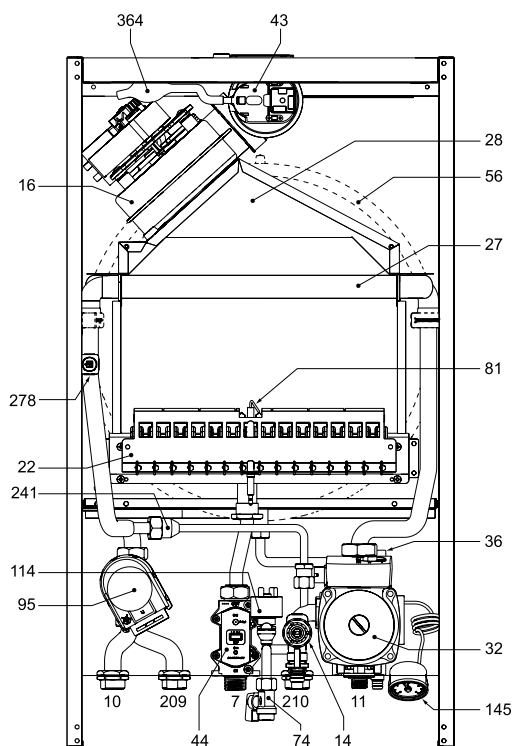
model C



model F



model HF



KEY

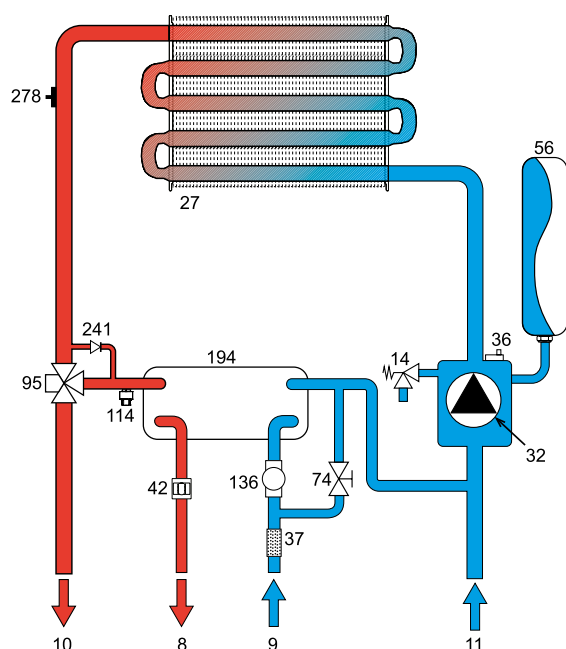
- 5 Sealed chamber
- 7 Gas inlet - Ø 3/4"
- 8 DHW outlet - Ø 1/2"
- 9 DHW inlet - Ø 1/2"
- 10 System flow - Ø 3/4"
- 11 System return - Ø 3/4"
- 14 Safety valve
- 16 Fan
- 19 Combustion chamber
- 22 Burner
- 27 Exchanger
- 28 Fume manifold
- 32 Circulating pump
- 36 Automatic air vent
- 37 Cold water inlet filter
- 42 DHW temperature sensor
- 43 Air pressure switch
- 44 Gas valve
- 56 Expansion vessel
- 74 System filling faucet
- 78 Anti-backflow device
- 81 Ignition and detection electrode
- 95 Diverter valve
- 114 Water pressure switch
- 126 Fume thermostat
- 136 Flowmeter
- 145 Pressure gauge
- 194 DHW exchanger
- 241 Automatic bypass
- 278 Double sensor (safety + heating)
- 364 Anti-condensation fitting



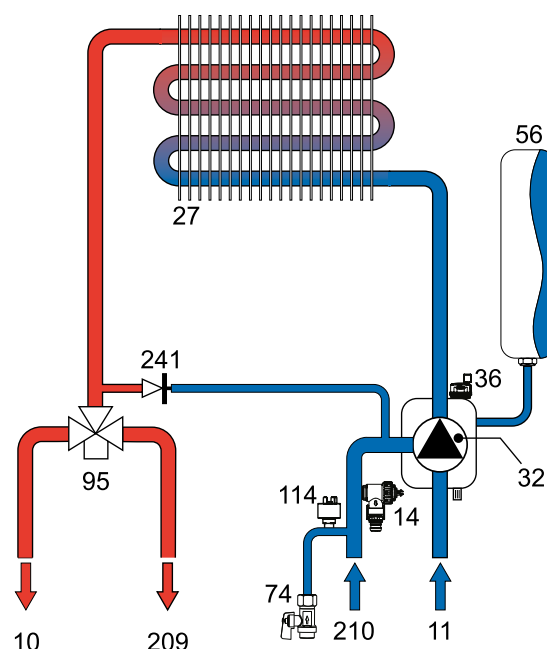
SPECIFICATIONS

Hydraulics / Summary table

model C / F



model HF



KEY 8 DHW outlet - Ø 1/2" 9 DHW inlet - Ø 1/2" 10 System flow - Ø 3/4" 11 System return - Ø 3/4" 14 Safety valve 27 Exchanger 32 Circulating pump 36 Automatic air vent 37 Cold water inlet filter 42 DHW temperature sensor 56 Expansion vessel 74 System filling faucet 95 Diverter valve 114 Water pressure switch 136 Flowmeter 194 DHW exchanger 209 Hot water tank delivery - Ø 3/4" 210 Hot water tank return - Ø 3/4" 241 Automatic bypass 278 Double sensor (safety + heating)

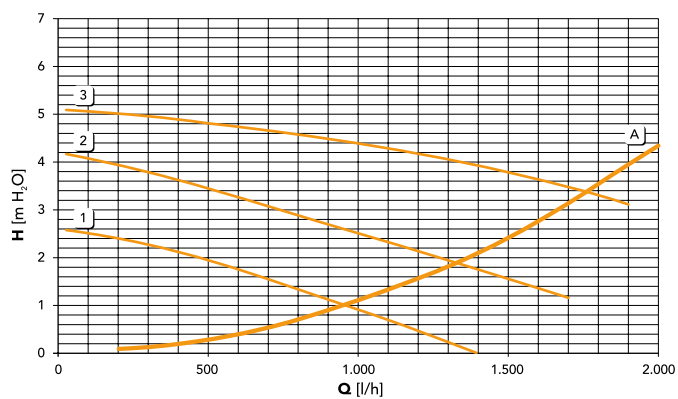
MODEL			C 24	C 32	F 24	F 32	F 37	HF 24	HF 32
Heating capacity	Max	kW	25.8	34.4	25.8	34.4	39.7	25.8	34.4
	Min	kW	8.3	11.5	8.3	11.5	14.0	8.3	11.5
Heat output in heating	Max	kW	23.5	31.3	24.0	32.0	37.0	24.0	32.0
	Min	kW	7.0	9.7	7.2	9.9	12.9	7.2	9.9
Heat output in hot water production	Max	kW	23.5	31.3	24.0	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	93	93.1
Efficiency 30%		%	89.8	89.8	90.5	91	91	90.5	91
NOx emission class		-	3	3	3	3	3	3	3
Working pressure in heating	Max	bar	3	3	3	3	3	3	3
	Min	bar	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Max heating temperature		°C	90	90	90	90	90	90	90
Heating water content		litres	0.8	1.2	1	1.2	1.5	0.7	1.1
Heating expansion tank capacity		litres	8	8	8	10	10	8	10
Heating expansion tank prefilling pressure		bar	1	1	1	1	1	1	1
Working pressure in hot water production	Max	bar	9	9	9	9	9	-	-
	Min	bar	0.3	0.3	0.3	0.3	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	X4D	X4D
Electrical power input		W	80	90	110	135	135	110	135
Electrical power input in hot water production		W	80	90	110	135	135	-	-
Empty weight		Kg	27	30	32	35	37	32	35



SPECIFICATIONS

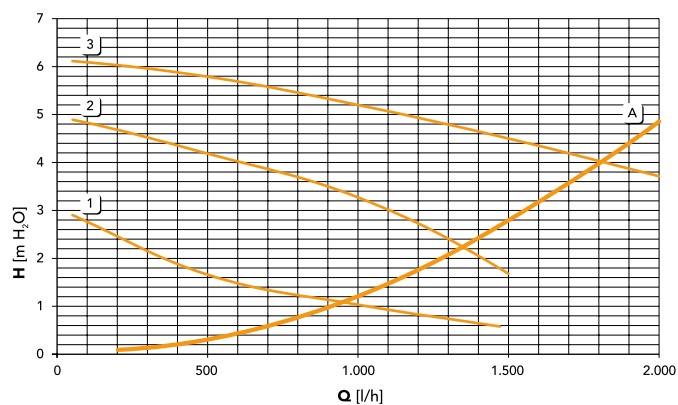
Available circulation head

MOD. C 24



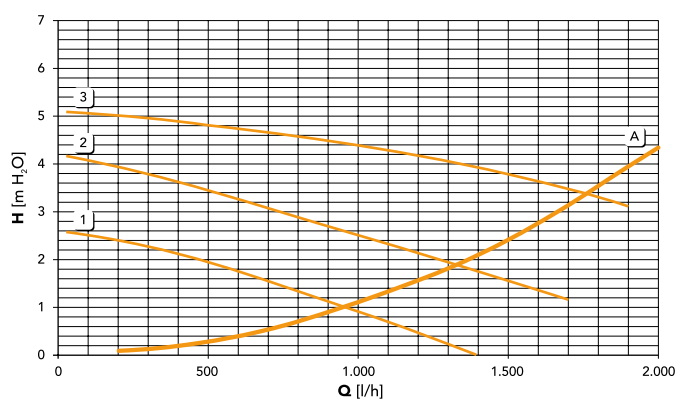
A Boiler pressure losses
1 - 2 - 3 Circulating pump speed

MOD. C 32



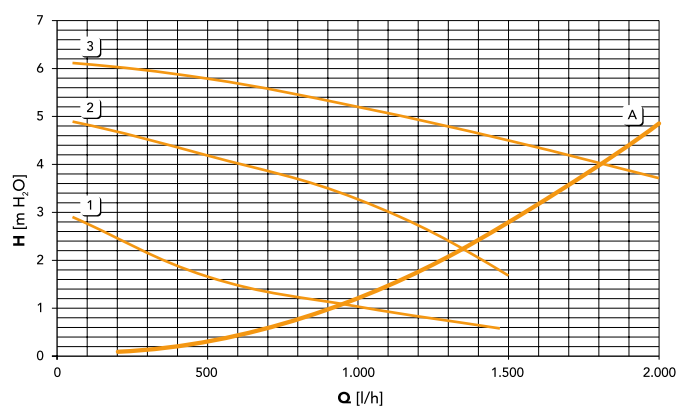
A Boiler pressure losses
1 - 2 - 3 Circulating pump speed

MOD. F 24



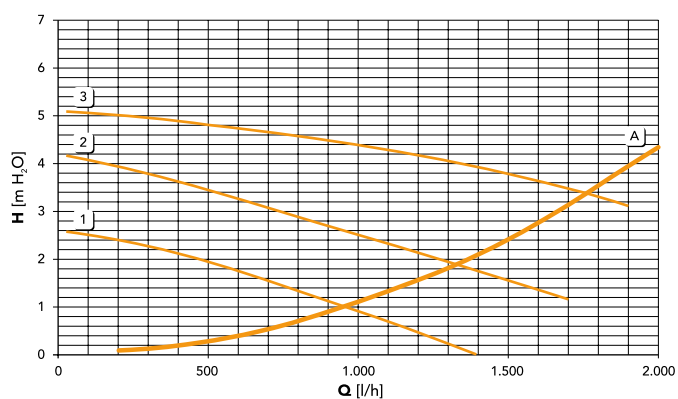
A Boiler pressure losses
1 - 2 - 3 Circulating pump speed

MOD. F 32 / F 37



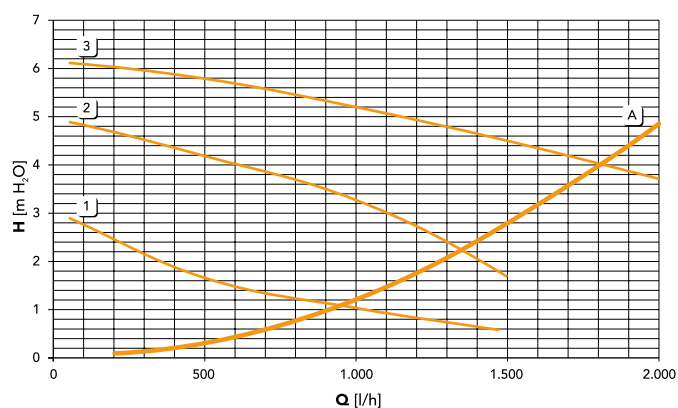
A Boiler pressure losses
1 - 2 - 3 Circulating pump speed

MOD. HF 24



A Boiler pressure losses
1 - 2 - 3 Circulating pump speed

MOD. HF 32



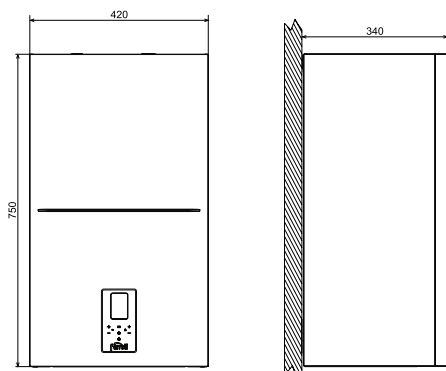
A Boiler pressure losses
1 - 2 - 3 Circulating pump speed



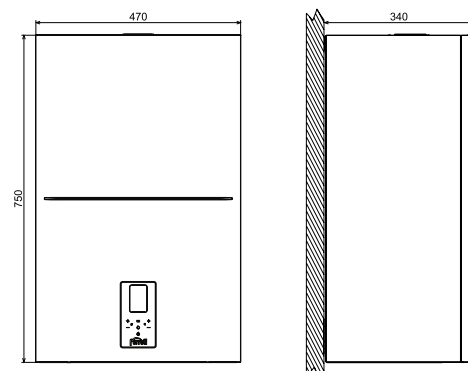
SPECIFICATIONS

Dimensions

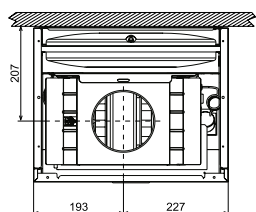
MOD. C 24 / C 32 / F 24 / F 32 / HF 24 / HF 32



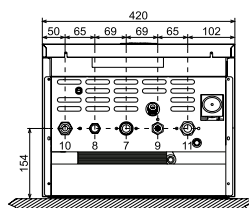
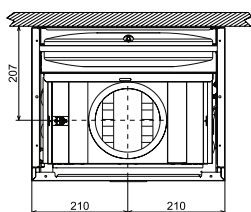
MOD. F 37



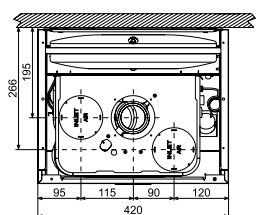
MOD. C 24



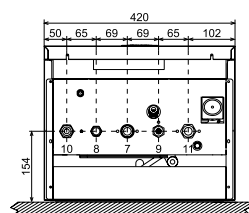
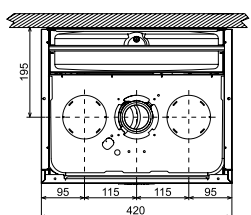
MOD. C 32



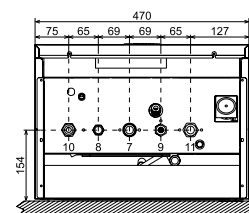
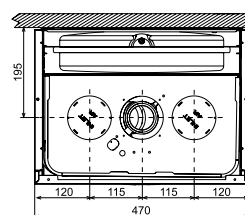
MOD. F 24



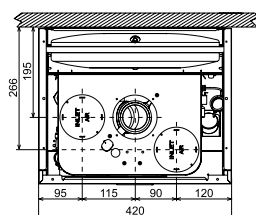
MOD. F 32



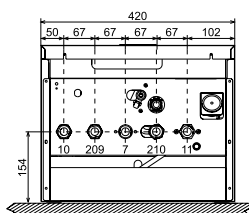
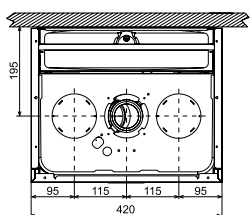
MOD. F 37



MOD. HF 24



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



NOTICE FOR SALES AGENTS:

In view to constantly improve its production range and customer satisfaction levels, the Company hereby specifies that aesthetic and/or dimensional features, specifications and accessories may be subject to changes.

Please place the utmost care to ensure all technical and/or sales documents (lists, catalogues, brochures, etc.) provided to the final Customer are updated according to the latest edition.

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