OMNIA LIFE M 26T-35T

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

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GAS R290 | HOT WATER UP TO 85°C | WIFI+APP AS STANDARD | CASCADE

CONFIGURATION VIA USB | SMARTGRID READY | LOW SOUND LEVEL | PHOTOVOLTAIC CONNECTION

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

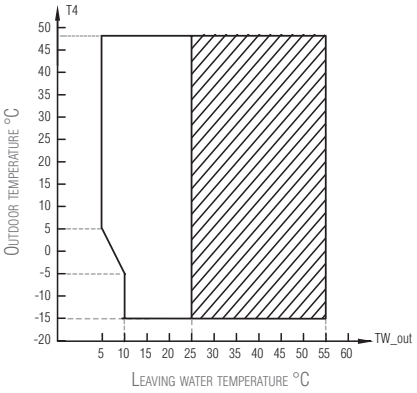
GENERAL DATA		26T	30T	35T
Power supply	V-ph-Hz	380/415-3-50		
Compressor type	-	Twin rotary DC		
N° compressors / N° refrigerant circuits	n	1 / 1		
Plant side heat exchanger type	-	Stainless steel brazed plates		
Source side heat exchanger type	-	Finned coil		
N° and type fans	-	2 x DC axial		
Expansion 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

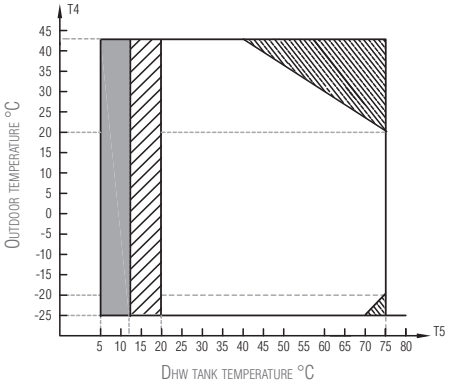
In cooling mode, product works at an outdoor temperature of -15°C to 48°C



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



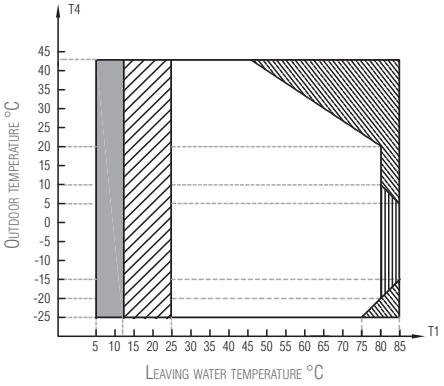
In case of valid TBH/IBH/AHS settings, only the TBH/IBH/AHS turns on

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



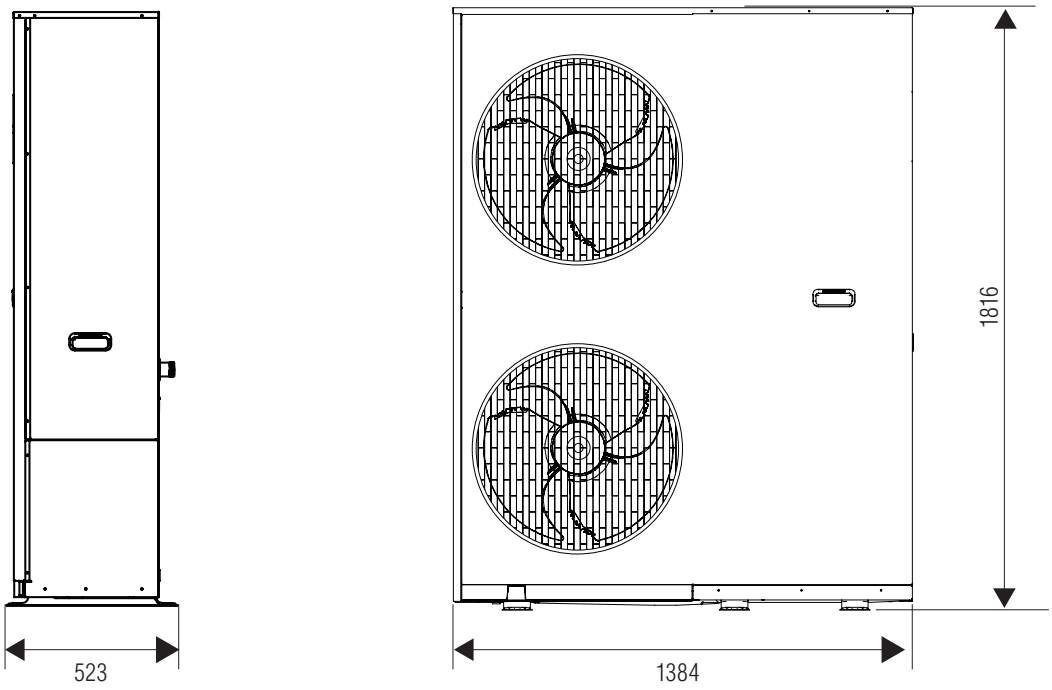
In case of valid IBH/AHS settings, only the IBH/AHS turns on

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