
HOT
Green Power
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MONOBLOC HEAT PUMP R290 8-40 KW

The reliable and cost-effective solution for residential and commercial applications.
The latest generation technology guarantees top-of-the-line performance and energy savings.

COMPRESSORS

Twin Rotary for 8-16 kW units

It guarantees high efficiency, reliability and silence: thanks to the double rotation, it reduces vibrations and optimizes performance, ensuring precise power regulation.

It offers stable operation even at low temperatures, maximizing energy savings.

Scroll with EVI technology for 26-40 kW models

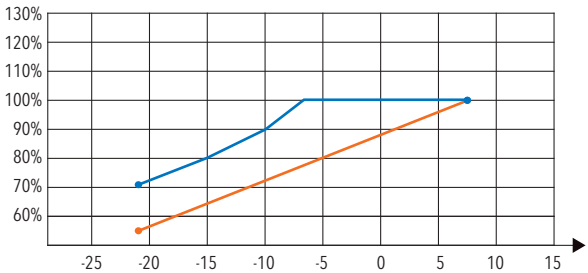
The 26-40 kW units are equipped with an R290 Inverter Scroll compressor with EVI (Enhanced Vapor Injection) technology, which allows medium pressure vapor injection into the compressor scroll.

This innovation guarantees:

- higher delivery temperatures, ideal for high efficiency applications;
- greater yield even in harsh weather conditions;
- higher efficiency at low temperatures, optimising energy consumption.

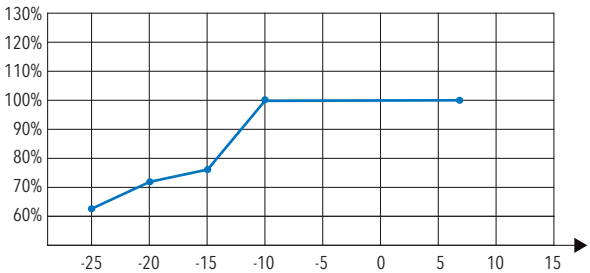
Maintaining power output

Models from 8 to 16 kW
Water delivery temperature 35°C



- -7°C -> 100% power guaranteed
- -15°C -> 80% power guaranteed
- -22°C -> 70% power guaranteed

Models from 26 to 40 kW
Water delivery temperature 55°C



- -10°C -> 100% power guaranteed
- -15°C -> 75% power guaranteed
- -20°C -> 70% power guaranteed

Legend

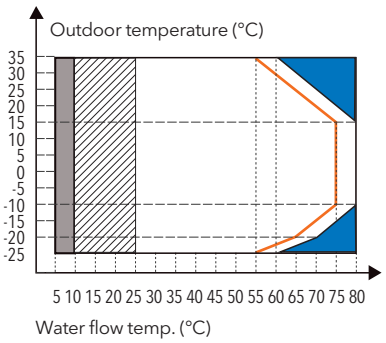
Hot Green Power — Other products

Wide operation in every mode 8-16 kW

Maximum values of water flow temperature in relation to the external temperature.

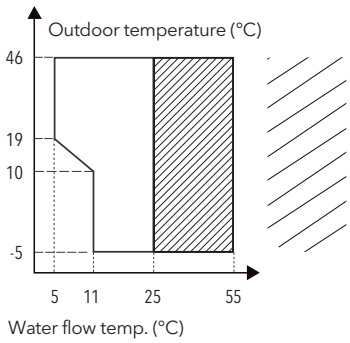
HEATING MODE

Operation from -25°C to 35°C.
Delivery temp. from 25°C to 80°C.



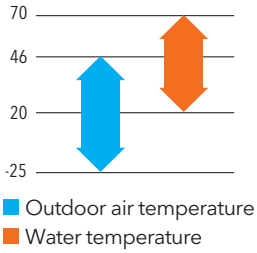
COOLING MODE

Operation from -5°C to 46°C.
Delivery temp. from 5°C to 25°C.



DHW PRODUCTION

Operation from -25°C to 46°C.
Flow temp. for DHW from 20°C to 70°C.



The heat pump turns off, only the resistors turn on

The heat pump works with possible limitations and protections

If present, only the resistors are turned on, otherwise only the heat pump works but with limitations and protections

Maximum return temperature

MAX. GUARANTEED TEMPERATURE VALUES

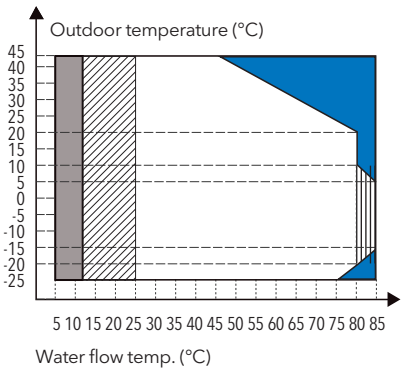
- -25/+35 -> max guaranteed flow temp. 60°C
- -20/+25 -> max guaranteed flow temp. 70°C
- -10/+15 -> max guaranteed flow temp. 80°C

Wide operation in every mode 26-40 kW

Maximum values of water flow temperature in relation to the external temperature.

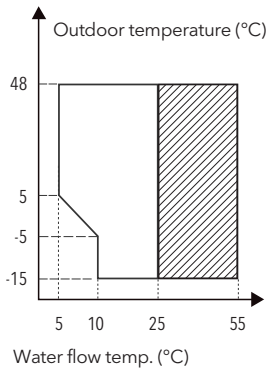
HEATING MODE

Operation from -25°C to 43°C.
Delivery temp. from 25°C to 85°C.



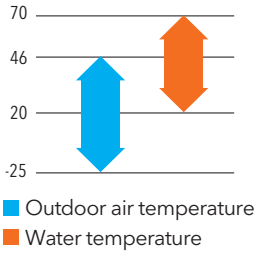
COOLING MODE

Operation from -15°C to 48°C.
Delivery temp. from 5°C to 25°C.



DHW PRODUCTION

Operation from -25°C to 43°C.
Flow temp. for DHW from 20°C to 75°C.



The heat pump turns off, only the resistors turn on

The heat pump works with possible limitations and protections

If present, only the resistors are turned on, otherwise only the heat pump works but with limitations and protections

A flow rate of 1.2 m3/h is required to operate under these conditions.

MAX. GUARANTEED TEMPERATURE VALUES

- -25/+25 -> max guaranteed flow temp. 75°C
- -20/+10 -> max guaranteed flow temp. 80°C
- -15/+5 -> max guaranteed flow temp. 85°C

HYDRAULIC ELEMENTS

Water circulation

All units are equipped with a circulator: max. **9 mca** and **12 mca** (meters of water column) respectively for single-fan and double-fan units.

They are also complete with:

- 3 bar safety valve;
- plate heat exchanger;
- threaded connections.

The 26-40 kW units are equipped with an integrated expansion vessel: 5 L volume and 8 bar pre-charge.

Controls

Control panel with large color display.

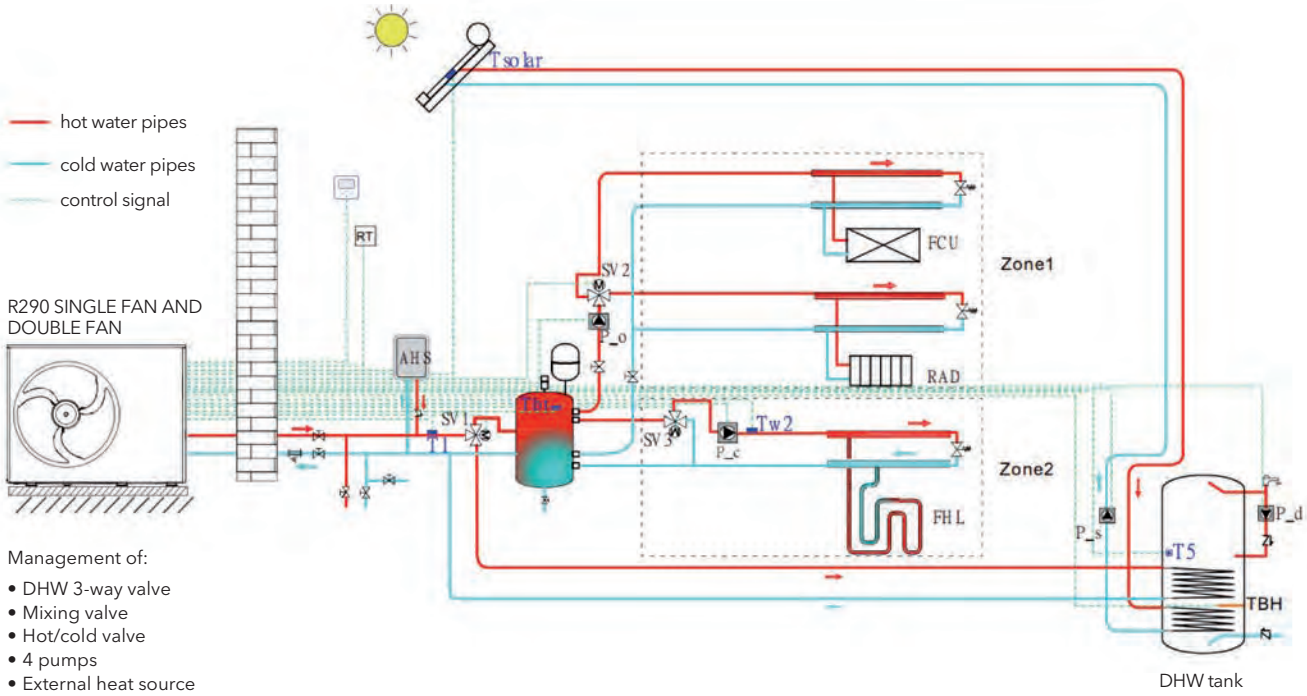
It is characterized by:

- liquid crystal display;
- touch keys;
- integrated Wi-Fi module as standard.

Compatible with Modbus protocol.

Control for both single and double fans.

System diagrams



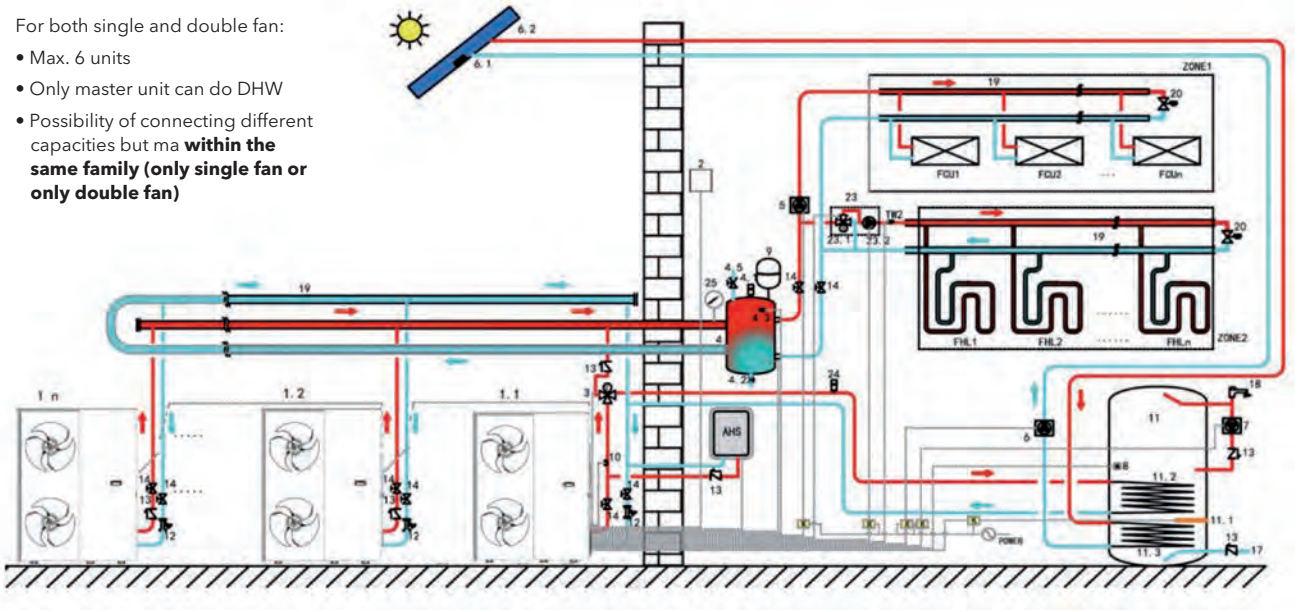
Management of:

- DHW 3-way valve
- Mixing valve
- Hot/cold valve
- 4 pumps
- External heat source
- Electric resistance
- Double zone management

Cascade systems

For both single and double fan:

- Max. 6 units
- Only master unit can do DHW
- Possibility of connecting different capacities but ma **within the same family (only single fan or only double fan)**



Technical specifications single fan monobloc

ENERGY CLASS

A+++
In heating mode with **35° C** of water temperature in delivery.

A+++
In heating mode with **55° C** of water temperature in delivery.

Model					GPCWNMS 800 J	GPCWNMS 1000 J	GPCWNMS 1200 J	GPCWNMS 1400 J	GPCWNMS 1600 J	GPCWSMS 800 J	GPCWSMS 1000 J	GPCWSMS 1200 J	GPCWSMS 1400 J	GPCWSMS 1600 J
Heating	Rated power	A7//W35		kW	8.00	9.50	12.10	14.00	15.50	8.00	9.50	12.10	14.00	15.50
	Electrical consumption				1.52	1.92	2.44	2.98	3.44	1.52	1.92	2.44	2.98	3.44
	Coefficient of performance			COP	5.25	4.95	4.95	4.70	4.50	5.25	4.95	4.95	4.70	4.50
	Rated power	A7/W45		kW	8.10	9.50	12.30	14.10	15.50	8.10	9.50	12.30	14.10	15.50
	Electrical consumption				2.03	2.44	3.15	3.76	4.25	2.03	2.44	3.15	3.76	4.25
	Coefficient of performance			COP	4.00	3.90	3.90	3.75	3.65	4.00	3.90	3.90	3.75	3.65
Cooling	Rated power	A35//W18		kW	8.30	10.00	12.00	14.00	15.00	8.30	10.00	12.00	14.00	15.00
	Electrical consumption				1.58	2.17	2.61	3.18	3.53	1.58	2.17	2.61	3.18	3.53
	Energy efficiency			EER	5.25	4.60	4.60	4.40	4.25	5.25	4.60	4.60	4.40	4.25
	Rated power	A35//W7		kW	7.45	8.10	11.50	12.40	14.00	7.45	8.10	11.50	12.40	14.00
	Electrical consumption				2.22	2.61	3.77	4.13	5.19	2.22	2.61	3.77	4.13	5.19
	Energy efficiency			EER	3.35	3.10	3.05	3.00	2.70	3.35	3.10	3.05	3.00	2.70
Seasonal heating data	Theoretical load (Pdesignh) @ -10°C	35/55		kW	7.90/8.20	9.80/10.00	12.10/12.10	14.10/13.80	15.90/14.70	7.90/8.20	9.80/10.00	12.10/12.10	14.10/13.80	15.90/14.70
	Seasonal energy efficiency(ηs)			%	211/159.6	210/157.5	194.5/155.4	187.5/151	185.6/151.5	211/159.6	210/157.5	194.5/155.4	187.5/151	185.6/151.5
	Energy efficiency class			-	A+++/A+++					A+++/A+++				
	Annual energy consumption			kWh/y	3051/4168	3802/5148	5064/6312	6118/7405	6966/7862	3051/4168	3802/5148	5064/6312	6118/7405	6966/7862
Operation range	Outdoor air temperature	Heating		°C	-25~35									
		Cooling			-5~46									
		DHW			-25~46									
	Delivery water temperature	Heating		°C	25~80									
		Cooling			5~25									
		DHW			20~70									
Refrigerant circuit data	Refrigerant[1]			Type / kg	R290 / 1.1		R290 / 1.5			R290 / 1.1		R290 / 1.5		
	Control system				Electronic expansion valve									
	Compressor			Type	Twin Rotary - DC Inverter									
Hydraulic data	Heat exchanger	Type			Stainless steel with brazed plates									
		Flow rate		m³/h	0.4~1.65	0.4~2.1	0.7~2.5	0.7~2.75	0.7~3.0	0.4~1.65	0.4~2.1	0.7~2.5	0.7~2.75	0.7~3.0
	Circulation pump				Included									
	Water pipe connections	Type			Threaded									
		Dimension		inches	G1-1/4" BSP									
	Max working pressure			bar	3									
	Expansion vessel				Not included									
Electrical data	Power supply			Ph/V/Hz	1ph+N / 220~240V / 50Hz					3ph+N / 380~415V / 50Hz				
	Maximum current			A	19.50	21.00	31.00			8.00		11.00		
	Power cable	Recommended		Type	3x6 mm²					5x2.5 mm²				
Product specifications	Fan	Type		q.ty	DC Inverter x 1									
		Air flow		m³/h	4680	4680	4780	4780	4780	4680	4680	4780	4780	4780
	Sound power level	ERP test		dB(A)	53	54	55	57	59	53	54	55	57	59
	Sound pressure level at 1 m	Max		dB(A)	40	41	43	46	49	40	41	43	46	49
	Dimensions	WxDxH		mm	1330x501x1051									
	Weight	Net		kg	156		176			161		176		
	Control (supplied)				Wired remote control with integrated WiFi and Modbus connectivity									

GENERAL NOTE:
The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

1. Refrigerant loss contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP when released into the atmosphere. This appliance contains a refrigerant with a GWP of 0.02. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 50 times greater than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user attempt to intervene on the refrigeration circuit or disassemble the product. If necessary, always contact qualified personnel.

Technical specifications double-fan monobloc

ENERGY CLASS

A+++ (26-30-35 kW)
In heating mode with **35° C** of water temperature in delivery.

A++ (39 kW)
In heating mode with **35° C** of water temperature in delivery.

A+++ (26 kW)
In heating mode with **55° C** of water temperature in delivery.

A++ (30-35-39 kW)
In heating mode with **55° C** of water temperature in delivery.

Model				GPCWSMS 2600 J	GPCWSMS 3000 J	GPCWSMS 3500 J	GPCWSMS 4000 J
Heating	Rated power	A7//W35	kW	26.00	30.00	35.00	39.00
	Electrical consumption		kW	5.45	6.67	8.40	9.75
	Coefficient of performance		COP	4.77	4.50	4.17	4.00
	Rated power	A7/W45	kW	26.00	30.00	35.00	39.00
	Electrical consumption		kW	6.82	8.26	10.05	11.90
	Coefficient of performance		COP	3.81	3.63	3.48	3.28
Cooling	Rated power	A35//W18	kW	26.00	30.00	35.00	39.00
	Electrical consumption		kW	5.60	6.80	8.50	9.85
	Energy efficiency		EER	4.64	4.41	4.12	3.96
	Rated power	A35//W7	kW	26.00	30.00	32.00	32.00
	Electrical consumption		kW	8.40	10.70	11.98	11.98
	Energy efficiency		EER	3.10	2.80	2.67	2.67
Seasonal heating data	Theoretical load (Pdesignh) @ -10°C	35/55	kW	26/26	30/30	35/35	39/39
	Seasonal energy efficiency (ηs)		%	194.9/150.7	193.8/148.7	176.3/142.4	169.7/135.6
	Energy efficiency class		-	A+++/A+++	A+++/A++	A+++/A++	A++/A++
	Annual energy consumption		kWh/y	10856/13984	12600/16346	16131/19899	18665/23246
Operation range	Outdoor air temperature	Heating	°C	-25~43			
		Cooling		-15~48			
		DHW		-25~43			
	Delivery water temperature	Heating	°C	25~85			
		Cooling		5~25			
		DHW		20~75			
Refrigerant circuit data	Refrigerant1		Type / kg	R290 / 2.9			
	Control system			Electronic expansion valve			
	Compressor		Type	DC Inverter EVI Scroll			
Hydraulic data	Heat exchanger	Type		Stainless steel with brazed plates			
		Flow rate	m³/h	1.2-5.4	1.2-6.2	1.2~7.2	1.2~8.1
	Circulation pump			Included			
	Water pipe connections	Type		Threaded			
		Dimension	inches	G1" 1/4 M (DN32)			
	Working pressure	Max	bar	3			
	Expansion vessel	Volume	L	5			
Electrical data	Power supply		Ph/V/Hz	3ph+N / 380~415V / 50Hz			
	Maximum current		A	35.00			
	Power cable	Recommended	Type	5x10 mm²			
Product specifications	Fan	Type	q.ty	DC Inverter x 2			
		Air flow	m³/h	10500			
	Sound power level	ERP test	dB(A)	69	74	75	76
	Sound pressure level at 1 m	Max	dB(A)	61	61	63	63
	Dimensions	WxDxH	mm	1384x523x1861			
	Weight	Net	kg	260			
	Control (supplied)			Wired remote control with integrated WiFi and Modbus connectivity			

GENERAL NOTE:
The above data refers to the following standards: EN 14511:2018; EN 14825:2019; EN50564:2011; EN12102-1:2018; EN12102-2:2019; (EU)No:811:2013; (EU)No:813:2013; OJ 2014/C 207/02:2014.

1. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP when released into the atmosphere. This appliance contains a refrigerant with a GWP of 0.02. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 50 times greater than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user attempt to intervene on the refrigeration circuit or disassemble the product. If necessary, always contact qualified personnel.