

CATALOGUE 2025

MONOBLOC HEAT PUMP R290 & R32





Hot Green Power leads innovation in the world of climate.

With a focus on new technologies and greener gases, Hot Green Power achieves every comfort and energy saving goal.



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HOT GREEN POWER, ENERGY EVOLVES

Innovation, efficiency and sustainability for the climate of the future

Hot Green Power is the Termal Group brand dedicated to **high-performance solutions for air-conditioning**, heating and domestic hot water production. Designed to meet the needs of **energy efficiency and sustainability**, the Hot Green Power

We design our systems for a more efficient, sustainable and technologically advanced future. range stands out for the use of ecological refrigerants R290 and R32, thus reducing environmental impact without compromising performance.

With over 40 years of experience, **Termal Group** is a reference in the sector of Climate and Comfort, sustainable construction, efficient systems and electric mobility. Hot Green Power represents a strategic evolution: a selection of **excellent products** designed to scale the peaks of energy efficiency and guarantee 360° sustainability.





Technology and versatility for every environment

The Hot Green Power range has been developed to offer flexible and cutting-edge solutions, capable of meeting the needs of residential, commercial and industrial environments. The products are distinguished by:

- **advanced energy-saving technologies,** optimised to ensure high comfort with reduced consumption;
- **use of sustainable refrigerants** (R290 and R32), with low environmental impact and compliant with the latest European regulations;
- **compact design and flexible installation**, ideal for new build projects and retrofits;
- **reliability and high performance**, to guarantee air conditioning, heating and production of domestic hot water with maximum efficiency.

The Evolution of Sustainable Air Conditioning

Choosing Hot Green Power means investing in a more efficient, sustainable and technologically advanced future. The brand embodies the philosophy of Termal Group, which has always focused on innovative solutions to improve living comfort and reduce environmental impact.

With Hot Green Power, the transition to a greener and more responsible climate is already a reality. A range developed to offer flexible and cutting-edge solutions.



REFRIGERANT GASES R290 AND R32

In recent years, the focus on more sustainable air conditioning and refrigeration solutions has grown significantly, pushing the industry to reduce the environmental impact of refrigerant gases. Two of the most popular and efficient alternatives are R290 (propane) and R32 (difluoromethane), both chosen for their **energy performance** and **lower impact** on global warming compared to older generation refrigerants such as R410A.

These two gases have distinct characteristics that make them more or less suitable for specific applications. **R290** is a **natural gas** with **almost zero environmental impact**, ideal for those looking for a highly sustainable solution. **R32**, on the other hand, offers a good compromise between **efficiency**, **safety** and **emission reduction** compared to traditional refrigerants, and is now widely used in air conditioning systems.



R290, sustainability and efficiency at its best

R290 is a **natural refrigerant gas** belonging to the hydrocarbon family. Its most distinctive feature is its very low GWP (Global Warming Potential) of only 0.02, making it one of the most environmentally friendly options available on the market.

From an energy point of view, R290 offers **excellent heat exchange capacity**, allowing air conditioning and refrigeration systems to work more efficiently and reducing energy consumption. Furthermore, having no impact on the ozone layer (ODP = 0), it fits perfectly into strategies for reducing polluting emissions.

The **A3 flammability class** requires specific precautions in the design and installation of systems. For this reason, the use of R290 is subject to very stringent charge limits and safety regulations, especially in residential air conditioning systems.

Strengths

- Almost zero environmental impact (GWP = 0.02, ODP = 0)
- High energy efficiency
- Excellent thermodynamic performance

Main applications: commercial and industrial refrigeration, small heat pumps, portable air conditioners.

R32, the standard for air conditioning

L'R32 is a **latest-generation refrigerant** that is gradually replacing R410A in air conditioning systems. Its GWP is 675, much lower than R410A (2,088), thus helping to reduce the environmental impact of modern air conditioners.

Thanks to its **excellent thermodynamic properties**, R32 allows for higher energy efficiency and a reduction in the amount of refrigerant needed in systems, thus also reducing operating costs. In addition, it has an ODP of 0, so it does not damage the ozone layer.

From a safety perspective, **R32 is classified as A2L** (slightly flammable). This means that, although it is flammable, the risk is much lower than R290, making it easier to handle and install in residential and commercial air conditioning systems.

Strengths

- Reduced GWP compared to R410A (675 vs 2,088)
- Greater energy efficiency with less refrigerant
- Does not damage the ozone layer (ODP = 0)

Main applications: residential and commercial air conditioning, heat pumps.



Line-up

Monobloc single fan R290 8-16 kW

Monobloc double fan R290 26-40 kW

Monobloc unit in air-to-water heat pump for cooling, heating and domestic hot water production for residential and commercial applications.



R290

5.35

kW)

Maximum SCOP

with flow 35°C (8

propane refrigerant gas

Energy class in heating at 35°C

A+++

7.67 Maximum SEER with flow 18°C (10 kW)

WiFi integrated as standard

85°C water temperature (for capacities 26-35 kW)

ModBus on all capacities

14.00 kW

16.00kW

GPCWSMS 1400 J

GPCWSMS 1600 J



1-PHASE 8.00 kW

14.00 kW GPCWNMS 800 J GPCWNMS 1400 J

10.00 kW 16.00kW GPCWNMS 1000 J GPCWNMS 1600 J

12.00kW GPCWNMS 1200 J GPCWSMS 800 J 10.00 kW

8.00 kW

3-PHASE

GPCWSMS 1000 J

12.00 kW

GPCWSMS 1200 J



3-PHASE

26.00 kW GPCWSMS 2600 J

30.00 kW GPCWSMS 3000 J

35.00 kW GPCWSMS 3500 J

40.00 kW GPCWSMS 4000 J -25°C heating operation

HOT GREEN POWER



Monobloc with vertical air supply R290 50-70 kW

Air-to-water heat pump monobloc for cooling and heating for commercial and industrial applications.





3-PHASE 50.00 kW GPCWSMS 5000 J

60.00 kW GPCWSMS 6000 J

70.00 kW GPCWSMS 7000 J

R290 propane refrigerant gas

4.70 Maximum SCOP with flow 35°C (50 kW)

ModBus on all capacities

A+++ energy class in heating at 35°C

6.80 Maximum SEER with 18°C flow (50 kW)

-10°C Power output at 100% up to -10°C

-25°C heating operation

85°C water temperature

up to 8 combinable units for a total of 560 kW of power

R32 22-30 kW double-fan monobloc

Monobloc air-to-water heat pump unit for cooling, heating and domestic hot water production for residential applications.



3-PHASE 22.00 kW GPCWSMS 2200 Z

26.00 kW GPCWSMS 2600 Z

30.00 kW GPCWSMS 3000 Z **R32** difluoromethane refrigerant gas

4.53 Maximum SCOP with flow 35°C (22 kW)

WiFi integrated as standard

A+++ Energy class in heating at 35°C (22-26 kW)

4.70 Maximum SEER with 7°C flow (22 kW)

ModBus

on all capacities

HOT

-25°C heating operation

60°C water temperature





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-theline 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

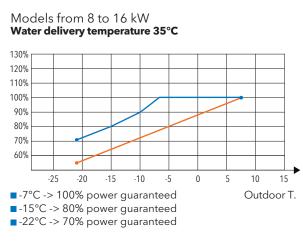
The 26-40 kW units are equipped with an R290 Inverter Scroll compressor with EVI (Enhanced Vapor Injection) technology, which allows medium pressure vapor injection into the compressor scroll.

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 26 to 40 kW Water delivery temperature 55°C



Legend

—— Hot Green Power —— Other products

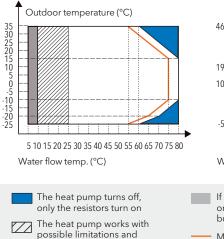


Wide operation in every mode 8-16 kW

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

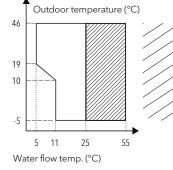
HEATING MODE

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



COOLING MODE

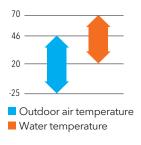
Operation from -5°C to 46°C. Delivery temp. from 5°C to 25°C.



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

DHW PRODUCTION

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



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

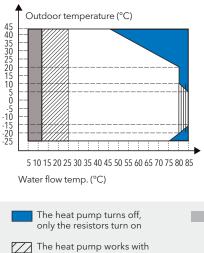
Wide operation in every mode 26-40 kW

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

HEATING MODE

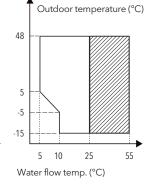
protections

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.

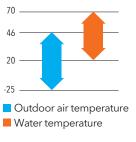


If present, only the resistors are turned on, otherwise only the heat pump works but with limitations and protections

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

DHW PRODUCTION

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



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

protections

possible limitations and

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

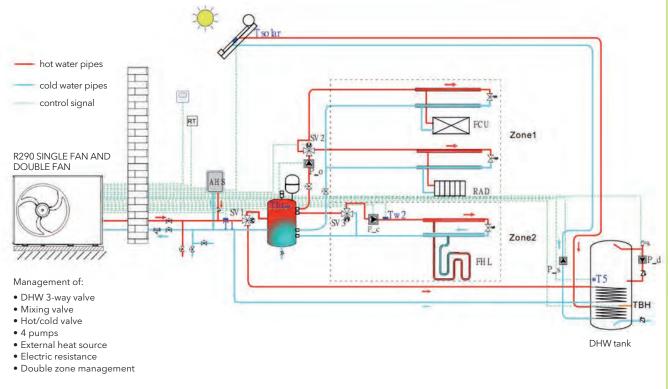
Control panel with large color display. It is characterized by:

- liquid crystal display;
- touch keys;
- integrated Wi-Fi module as standard.
- Compatible with Modbus protocol.

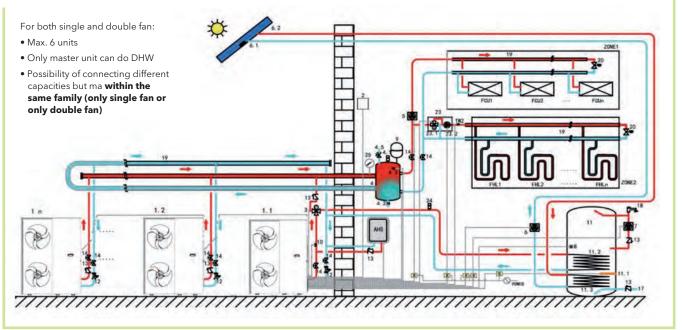
Control for both single and double fans.







Cascade systems





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
	Rated power		1147	8.00	9.50	12.10	14.00	15.50	8.00	9.50	12.10	14.00	15.50
	Electrical consumption	A7//W35	kW	1.52	1.92	2.44	2.98	3.44	1.52	1.92	2.44	2.98	3.44
11 - 2	Coefficient of performance		COP	5.25	4.95	4.95	4.70	4.50	5.25	4.95	4.95	4.70	4.50
Heating	Rated power	A7/W45	1347	8.10	9.50	12.30	14.10	15.50	8.10	9.50	12.30	14.10	15.50
	Electrical consumption		kW	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
	Rated power	A35//W18	1347	8.30	10.00	12.00	14.00	15.00	8.30	10.00	12.00	14.00	15.00
	Electrical consumption		kW	1.58	2.17	2.61	3.18	3.53	1.58	2.17	2.61	3.18	3.53
C 11	Energy efficiency		EER	5.25	4.60	4.60	4.40	4.25	5.25	4.60	4.60	4.40	4.25
Cooling	Rated power			7.45	8.10	11.50	12.40	14.00	7.45	8.10	11.50	12.40	14.00
	Electrical consumption	A35//W7	kW	2.22	2.61	3.77	4.13	5.19	2.22	2.61	3.77	4.13	5.19
	Energy efficiency	1	EER	3.35	3.10	3.05	3.00	2.70	3.35	3.10	3.05	3.00	2.70
	Theoretical load (Pdesignh) @ -10°C		kW	7.90/8.20	9.80/10.00		14.10/13.80		7.90/8.20	9.80/10.00	12.10/12.10		
Seasonal heating	Seasonal energy efficiency(ns)	-	%	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		185.6/151.5
data	Energy efficiency class	35/55	-	211/15510		\+++/A++-		10510/15115	211/10010		A+++/A++-		10010/10110
data	Annual energy consumption	-	kWh/v	3051/4168	3802/5148	5064/6312	6118/7405	6966/7862	3051/4168	3802/5148	5064/6312	6118/7405	6966/7862
	/imaar energy consumption	Heating		505171100	5002,5110	5001/0512	0110/7105	-25		5002/5110	5001/0512	0110/7103	0700/7002
	Outdoor air temperature	Cooling	°C					-5-					
	outdoor un temperature	DHW		-5~40 -25~46									
Operation range		Heating						25					
	Delivery water temperature	Cooling	°C					5~					
	beiner) mater temperature	DHW						20-					
	Refrigerant ¹		Type / kg	R290	R290 / 1.1 R290 / 1.5 R290 / 1.1 R290 / 1.5								
Refrigerant circuit	Control system		1)pc/g	11290	,		112907 113	Electronic exp		,	112507 115		
data	Compressor Type			Twin Rotary - DC Inverter									
	·	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	07~30
	Circulation pump							Inclu					
Hydraulic data	Type			Threaded									
	Water pipe connections	Dimension	inches	G1-1/4" BSP						0.7~3.0			
	Max working pressure		bar										
	Expansion vessel							Not in	cluded				
	Power supply		Ph/V/Hz		1nh+l	V / 220~240V	/ 50Hz			3nh+	N/380~415V	/ 50Hz	
Electrical data	Maximum current		A	19.50				11.00					
Electrical adta	Power cable	Recommended						11.00					
		Туре	q.ty			5/011111		DC Inve	rter x 1		572.511111		
	Fan	Air flow	m ³ /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
Product	Sound pressure level at 1 m	Max	dB(A)	40	41	43	46	49	40	41	43	46	49
specifications	Dimensions	WxDxH	mm					1330x50					
	Weight	Net	kq	14	56		176			51		176	
	Control (supplied)	1				Mir		rol with integra			i dec		

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+++ (26 kW)

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

A++ (39 kW) In heating mode with **35° 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				
	Rated power		LAM	26.00	30.00	35.00	39.00				
	Electrical consumption	A7//W35	kW –	5.45	6.67	8.40	9.75				
	Coefficient of performance		COP	4.77	4.50	4.17	4.00				
leating	Rated power	A7/W45	kW	26.00	30.00	35.00	39.00				
	Electrical consumption		KVV	6.82	8.26	10.05	11.90				
	Coefficient of performance		COP	3.81	3.63	3.48	3.28				
	Rated power		kW	26.00	30.00	35.00	39.00				
	Electrical consumption	A35//W18	KVV	5.60	6.80	8.50	9.85				
'a alta a	Energy efficiency		EER	4.64	4.41	4.12	3.96				
ooling	Rated power		kW	26.00	30.00	32.00	32.00				
	Electrical consumption	A35//W7	KVV -	8.40	10.70	11.98	11.98				
	Energy efficiency		EER	3.10	2.80	2.67	2.67				
	Theoretical load (Pdesignh) @ -10°C		kW	26/26	30/30	35/35	39/39				
easonal heating	Seasonal energy efficiency (ns)	35/55	%	194.9/150.7	193.8/148.7	176.3/142.4	169.7/135.6				
ata	Energy efficiency class		-	A+++/A+++	A+++/A++	A+++/A++	A++/A++				
	Annual energy consumption		kWh/y	10856/13984	12600/16346	16131/19899	18665/23246				
	Outdoor air temperature	Heating		-25~43							
		Cooling	°C	-15~48							
		DHW		-25~43							
peration range		Heating		25~85							
	Delivery water temperature	Cooling	°C	5~25							
	, ,	DHW		20~75							
	Refrigerant ¹ Type / kg					/ 2.9					
efrigerant circuit	Control system			Electronic expansion valve							
lata	Compressor		Type	DC Inverter EVI Scroll							
	Uset such as a set	Type		Stainless steel with brazed plates							
	Heat exchanger	Flow rate	m³/h	1.2-5.4	1.2-6.2	1.2~7.2	1.2~8.1				
	Circulation pump			Inclu	uded						
lydraulic data	14/	Type		Threaded							
/	Water pipe connections	Dimension	inches	G1" 1/4 M (DN32)							
	Working pressure	Max	bar	3							
	Expansion vessel	Volume	L	5							
	Power supply		Ph/V/Hz	3ph+N / 380~415V / 50Hz							
lectrical data	Maximum current A			35.00							
	Power cable	Recommended	Туре	53.80 5x10 mm ²							
Product		Туре	q.ty		DC Inverter x 2						
	Fan	Air flow	m ³ /h			500					
	Sound power level	ERP test	dB(A)	69	74	75	76				
	Sound pressure level at 1 m	Max	dB(A)	61	61	63	63				
pecifications	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 warrning potential (GWP) contribute less to global warrning 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 warrning 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.







HEAT PUMP MONOBLOC R290 50-70 KW

The new range of R290 modular heat pumps is ideal for cooling and heating in commercial and industrial buildings.

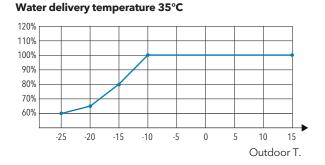
Available in capacities from 50 to 70 kW of thermal capacity, modularity is one of its most important advantages; in fact, it is possible to combine the three models up to 8 units, for a maximum of 560 kW of capacity.

Usable in single or cascade mode, it reaches up to 85°C of water flow temperature.



Maintaining power output

The unit is able to guarantee 100% of the power output in the presence of external temperatures down to -10° C.



Operation range in Cooling and Heating

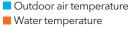
The wide operating range allows to satisfy all system requirements:

- hydronic terminals; floor heating.
- radiators;

HEATING MODE

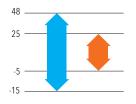
Operation from -25°C to 43°C. Delivery temp. from 25°C to 85°C.





COOLING MODE

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



Controls

Control panel equipped with daily timer, weekly timer, compatible with Modbus protocol.



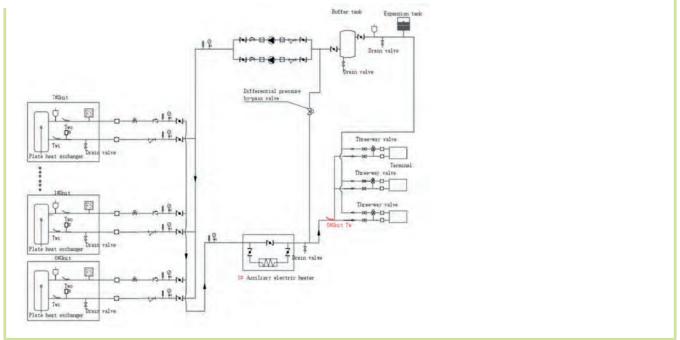


Cascade systems

The monoblocs can be connected in parallel for a maximum of 8 units and a total power of 560 kW. This makes the system ideal for commercial and industrial applications.



Example of cascade installation











Technical specifications modular monobloc

ENERGY CLASS

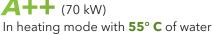
A+++

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

A+++ (50-60 kW)

A++ (70 kW)

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



temperature in delivery.



Model				GPCWSMS 5000 J	GPCWSMS 6000 J	GPCWSMS 7000 J				
Useffere	Rated power		LAM	50.00	60.00	70,00				
	Electrical consumption	A7//W35	kW	10.64	13.95	17,50				
	Coefficient of performance		COP	4.70	4.30	4,00				
Heating	Rated power	A7/W45	kW	50.00	60.00	70,00				
	Electrical consumption		KVV [13.16	17.05	20,90				
	Coefficient of performance		COP	3.80	3.52	3,35				
	Rated power	A35//W18	kW	50.00	60.00	70,00				
	Electrical consumption			10.42	13.33	16,87				
Cooling	Energy efficiency		EER	4.80	4.50	4,15				
Cooling	Rated power		kW	50.00	60.00	65,00				
	Electrical consumption	A35//W7	K V V	15.15	20.00	23,21				
	Energy efficiency		EER	3.00	3.00	2,80				
	Theoretical load (Pdesignh) @ -10°C		kW	50.00/50.000	60.00/60.00	65,00/65,00				
Seasonal heating	Seasonal energy efficiency (ns)	35/55	%	185/153	181/151	177/147,4				
data	Energy efficiency class		-	A+++/A+++	A+++/A+++	A+++/A++				
	Annual energy consumption		kWh/y	21978/26324	26948/32176	29842/35694				
	Outdoor air temperature	Heating	°C	-25~43 -15~48						
Operation range		Cooling	C							
operation range	Delivery water temperature	Heating	or							
	, ,	Cooling		5~25						
Refrigerant circuit	Refrigerant2		Type / kg	R290 / 2.8 x 2						
data	Control system				Electronic expansion valve					
uutu	Compressor		Туре	DC Inverter EVI Scroll						
	Heat exchanger	Туре		Stainless steel with brazed plates						
		Flow rate	m³/h		9.6~14.4					
	Circulation pump			NOT included						
Hydraulic data	Water pipe connections	Туре		Victaulic type grooved 2" (DN50)						
		Dimension	inches							
	Working pressure	Max	bar							
	Expansion vessel	Volume L Ph/V/Hz		Not included						
				3ph+N / 380~415V / 50Hz						
Electrical data	Maximum current			70.00						
	Power cable	Recommended Type		5x16 mm ²						
	Fan	Туре	q.ty		DC Inverter x 2					
Product		Air flow	m³/h		28670					
	Sound power level	Max	dB(A)	80	84	87				
	Sound pressure level at 1 m	Max	dB(A)	63	68	70				
-F	Dimensions	WxDxH	mm		2000x960x1880					
	Weight	Net	kg		560					
	Control (supplied)			Wired remote control with 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. In "High temperature" operating mode.

2. Refrigerant leakage contributes to climate change. Refrigerants with a lower global warming potential (GWP) contribute less to global warming when released into the atmosphere than those with a higher GWP. 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.







HEAT PUMP **JOBLOC R32** 22-30

Monobloc double-fan unit in air-to-water heat pump for cooling, heating and production of domestic hot water, for residential applications.

Available in capacities of 22, 26 and 30 kW.

The system can be installed by integrating it with additional heat sources. The monoblocs are already equipped with:

- internal pump
- 8-liter expansion vessel
- flow switch
- safety valve
- automatic air vent valve •

Smart grid

All units are SG Ready. Reading of the electrical network trend,



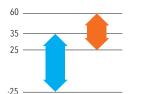
energy saving guaranteed.

Wide operation in every mode 22-30 kW

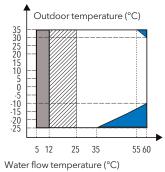
Maximum values of water flow temperature in relation to the external temperature.

HEATING MODE

Operation from -25°C to 35°C. Delivery temp. from 25°C to 60°C.





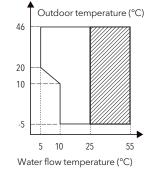


COOLING MODE

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



COOLING MODE

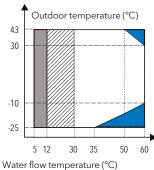


DHW PRODUCTION

Operation from -25°C to 43°C. Delivery temp. for DHW from 30°C to 60°C.



DHW PR





- 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



Easy installation to ensure optimal efficiency

The compactness of the units ensures simple installation while respecting minimum spaces.

Frost protection and floor protection

All units are equipped with frost protection and floor protection.

Frost protection

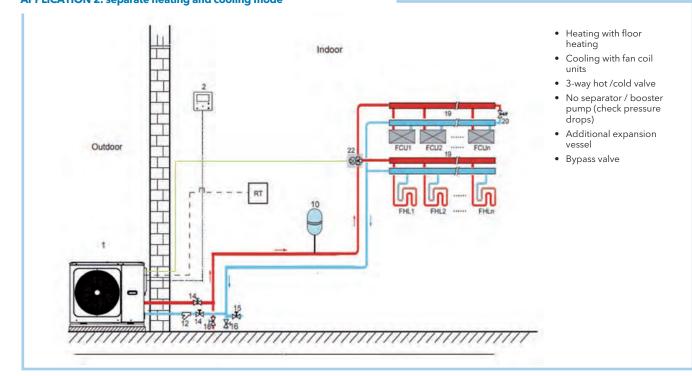
The heat pump activates the heating for low temperature or for domestic hot water, in order to protect the hydraulic system.

Floor protection

The floor drying mode and the preheating mode protect the floor from deformations and breakages.

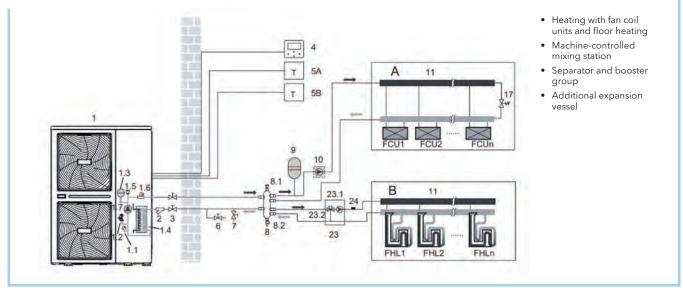
T 5 9 51 10 11 ۲ -Da 5 N 2 3 4 6 FHL2 FHL1 FHLn

APPLICATION 2: separate heating and cooling mode

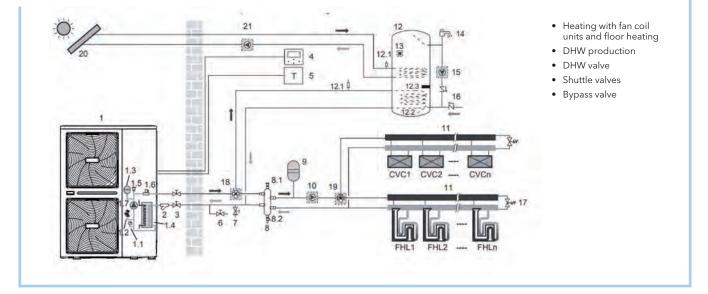


APPLICATION 1: heating only mode with floor heating

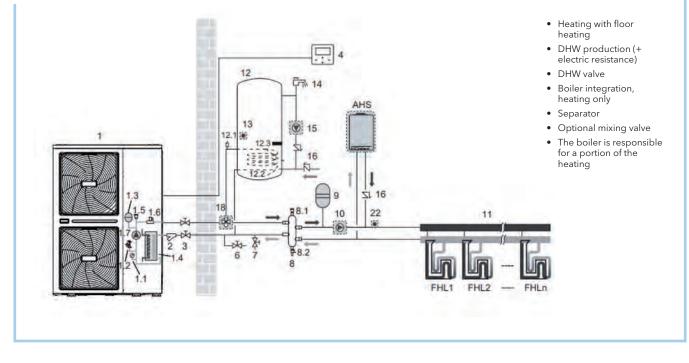
APPLICATION 3: heating mode - double temperature



APPLICATION 4: Heating mode + Cooling mode + DHW production

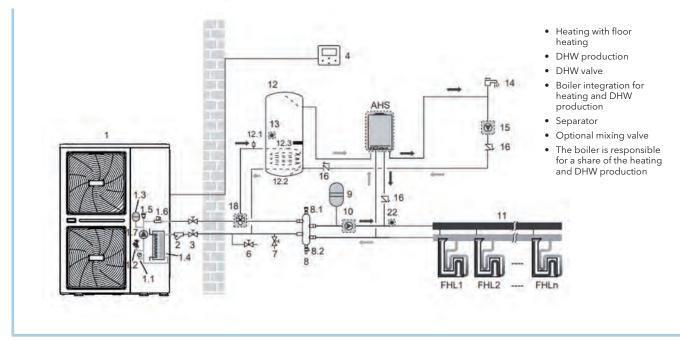


APPLICATION 5: Heating mode and DHW production with boiler integration

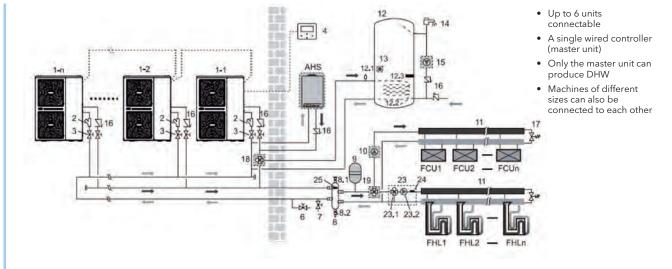




APPLICATION 5a: heating mode and DHW production with boiler integration



APPLICATION 6: cascade configuration for heating, cooling, DHW production, with boiler/solar thermal integration

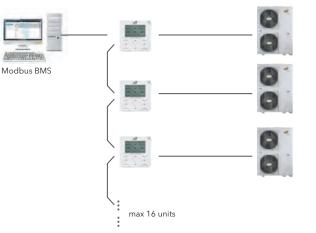


Control

All units are R32 and are equipped with wired remote control and integrated Wi-Fi module.

Modbus control

- Up to 16 controllers managed on the same line.
- Maximum line length 150 m.
- Allows construction of large centralized/ decentralized systems depending on needs.



HOT GREEN POWER



Technical specifications R32 heat pump

ENERGY CLASS

A + + + (22 - 26 kW)

In heating mode with **35° C** flow water In heating mode with **35° C** flow water temperature.

A++ (22 kW)

In heating mode with **55° C** flow water temperature.

A++ (30,1 kW)

temperature.

A+ (26-30,1 kW)

In heating mode with **55° C** flow water temperature.



Model				GPCWSMS 2200 Z	GPCWSMS 2600 Z	GPCWSMS 3000 Z				
	Rated power		1111	22.00	26.00	30.10				
	Electrical consumption	A7//W35	kW	5.00	6.37	7.70				
Heating	Coefficient of performance		COP	4.40	4.08	3.91				
	Rated power		kW -	22.00	26.00	30.00				
	Electrical consumption	A7/W45	KVV	6.47	8.39	10.35				
	Coefficient of performance		COP	3.40	3.10	2.90				
	Rated power		kW -	23.00	27.00	31.00				
	Electrical consumption	A35//W18		5.00	6.28	7.75				
ooling	Energy efficiency		EER	4.60	4.30	4.00				
Jooning	Rated power		kw –	21.00	26.00	29.50				
	Electrical consumption	A35//W7		7.12	9.63	11.57				
	Energy efficiency		EER	2.95	2.70	2.55				
	Theoretical load (Pdesignh) @ -10°C		kW	22.00/22.00	25.00/26.00	29.00/30.00				
Seasonal heating	Seasonal energy efficiency(ns)	35/55	%	178/126	177/123	165/123				
lata	Energy efficiency class		-	A+++/A++	A+++/A+	A++/A+				
	Annual energy consumption		kWh/y	10180/14390	11489/17204	14165/19316				
Operation range	Outdoor air temperature	Heating		-25~35						
		Cooling	°C	-5~46						
		DHW		-25~43 25~60						
	Delivery water temperature	Heating	- °C -	5~25						
		Cooling			<u> </u>					
	DHW Tur		Type (GWP)							
				K32 (6/5) 5.0 (3.375)						
Refrigerant circuit lata				Electronic expansion valve						
Jala	Control system Compressor Typ			Twin Rotary - DC Inverter						
		Туре	Туре	Stainless steel with brazed plates						
	Heat exchanger	Flow rate	m³/h	3.8	4.5	5.2				
	Circulation pump	TIOWTALC	111/11	5.0	Included	J.Z				
		Туре		Threaded						
lydraulic data	Water pipe connections	Dimension	inches	1-1/4" BSP						
	Max working pressure	Difficition	bar		3					
	2.	Volume		8						
	Expansion vessel	Precharge	bar		1.0					
	Power supply			3ph+N / 380~415V / 50Hz						
ectrical data			Ph/V/Hz A	28.00						
Electrical data			Туре	5x6 mm ²	5x6 mm ²	5x6 mm ²				
Product specifications	· · · · · · · · · · · · · · · · · · ·	Туре	q.ty	DC Inverter x 2	DC Inverter x 2	DC Inverter x 2				
	Fan	Air flow	m³/h	11000	11300	11300				
	Sound power level de			73	73 75					
	Sound pressure level at 1 m dB(A)			59.8	61.5 63.5					
	Dimensions	WxDxH	mm	1129x440x1558	1129x440x1558	1129x440x1558				
	Weight	Net	kg	177	177	177				
	Control (supplied)				Wired controller DHWZ CEM-Z					

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 when released into the atmosphere than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. Therefore, if 1 kg of this refrigerant were released into the atmosphere, the impact on global warming would be 675 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.





HOT GREEN POWER PRODUCT CATALOGUE 2025



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