Quality Solar Systems

SOLE
SOLAR SYSTEMS MANUFACTURER

Advantages of SOLE heat pumps

- Monoblock type with integrated circulation pump and control board.
- **Air vent included in packaging.**
- **New eco-friendly refrigerant R290.**
- Hot water **temperature up to 75°C**.
- 2-year full product warranty.
- Function modes: Heating – Cooling – Domestic Hot Water (DHW).
- Large digital touchscreen controller.
- **Cascade configuration capability (up to 8 units).**
- Compact unit dimensions.
- Elegant anthracite color design.
- Low noise levels.

Since its foundation in **1974** **SOLE S.A.** has been commited to environmental protection and CO_2 emissions reduction.

SOLE S.A. holds numerous prizes and environmental distinctions, contributing with its products to the improvement of environment in all 5 continents.

Contact us today and invest in a more sustainable and economically efficient energy future with SOLE S.A.!

SOLE S.A.
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SOLE
HEAT PUMPS

High temperature
Heat Pumps

HEATING, COOLING & DOMESTIC HOT WATER SOLUTIONS

75°C High temp Water outlet · WIFI · A+++ Energy-Saving · R290 zero carbon

Monoblock type with integrated circulation pump and control board. Air vent included in packaging.

READY-TO-DELIVER HEAT PUMPS - SPARE PARTS STOCK AT ATHENS FACTORY

On-site & online technical support including parameterization, training & commissioning.

R290 zero carbon · 4.69 SCOP MAX · A+++ Energy-Saving · 75°C High temp Water outlet · SG Ready Smart Heat Pumps · PV-READY

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SOLE HEAT PUMPS

High Temperature **Heat Pumps**

SOLE SOLAR SYSTEMS MANUFACTURER

DC Inverter Compressor — SINGLE PHASE (230V/1Ph)

Household heat pumps, single-phase, monoblock with integrated circulation pump and R290 refrigerant. An air eliminator is included in the package.

Model		HPM08KW 1PHR290	HPM12KW 1PHR290	HPM15KW 1PHR290
Heating Condition - Ambient Temp.(DB/WB):7/6°C,Water Temp.(In/Out):30/35°C				
Heating Capacity Range (kw)		3.3~8.3	4.5~11.4	5.9~14.8
Heating Power Input Range(kw)		0.64~2.18	0.85~2.95	1.13~3.83
Cop Range		3.81~5.17	3.86~5.29	3.86~5.22
DHW Condition-Ambient Temp.(DB/WB)7/6°C,Water Temp.(In/Out):15/55°C				
Heating Capacity Range (kw)		3.7~7.4	5.2~10.2	6.6~13.2
Heating Power Input Range(kw)		0.79~2.10	1.10~2.87	1.41~3.73
Cop Range		3.52~4.69	3.55~4.71	3.54~4.67
Heated Water Output (l/h)		159	219	283
Cooling Condition - Ambient Temp.(DB/WB)35/24°C,Water Temp.(In/Out):12/7°C				
Cooling Capacity Range (kw)		2.4~5.8	3.3~8.2	4.3~10.8
Cooling Power Input Range(kw)		0.79~2.19	1.08~3.07	1.39~3.99
EER Range		2.65~3.04	2.67~3.06	2.71~3.10
Space Heating (According to EN14825:2022) Average Climate Water Outlet 35°C	Rated heat output (kW)	5.82	7.89	9.95
	ErP Level	A+++	A+++	A+++
	Sound pressure level (dB(A)) at 1 meter	44	43	45
	Sound power level (dB(A))	58	57	59
Space Heating (According to EN14825:2022) Average Climate Water Outlet 55°C	Rated heat output (kW)	5.59	8.70	9.23
	ErP Level	A++	A++	A++
	Sound pressure level (dB(A)) at 1 meter	44	47	46
	Sound power level (dB(A))	58	61	60
Power Supply		230V/1Ph/50Hz/60Hz		
Diameter Of Pipe (mm)		DN25	DN25	DN25
Max water head(m)		9	9	9
Net Weight (kg)		112	120	138
Body size(W*D*H) (mm)		1080×460×820	1080×460×960	1080×480×1060
Operation Ambient Temp. (°c)		-25~43		
Operating Water Temperature (°c)		28~65(DHW)		
Operating Water Temperature (°c)		15~70(Heating)		
Operating Water Temperature (°c)		7~35(Cooling)		

Impressive Performance and Energy Efficiency

The R290 heat pumps by SOLE S.A. stand out for their exceptional performance:

- Maximum water temperature up to **75°C,** ideal for demanding heating and domestic hot water applications.
- Energy class **A+++ at 35**°C and **A++ at 55°C,** according to ErP regulation.
- High COP (up to 5.62) and SCOP (up to 4.69), ensuring **excellent energy savings.**
- DC Inverter technology for precise control and up to 50% energy savings compared to traditional ON/OFF compressors, and **up to 75% savings** compared to conventional oil boilers.
- Reliable operation in **extreme outdoor temperatures**: hot water at **70°C even at -15°C ambient**, and **uninterrupted system performance down to -25°C.**

Advanced R290 Safety System by SOLE S.A.

SOLE integrates a multi-layer safety system specially designed for the use of R290 refrigerant:

- Refrigerant leak detection sensors.
- Automatic system shutdown in case of instability.
- Automatic ventilation system with built-in air vent — redirects gas safely outside in case of malfunction.
- Airtight enclosure of all electrical components.
- Automatic user alert system in case of detected failure.

User safety is a top priority for SOLE S.A.

R290

ZERO CARBON Buildings

One Stop Air-to-water Heat Pump Solutions

DC Inverter Compressor — THREE PHASE (380V/3Ph)

Household heat pumps, three-phase, monoblock with integrated circulation pump and R290 refrigerant. An air eliminator is included in the package.

Model		HPM12KW 3PHR290	HPM15KW 3PHR290	HPM18KW 3PHR290	HPM24KW 3PHR290
Heating Condition - Ambient Temp.(DB/WB):7/6°C,Water Temp.(In/Out):30/35°C					
Heating Capacity Range (kw)		4.5~11.4	5.9~14.8	7.2~18.2	9.6~24.0
Heating Power Input Range(kw)		0.85~2.95	1.13~3.83	1.38~4.65	1.83~6.30
Cop Range		3.86~5.29	3.86~5.22	3.91~5.22	3.81~5.24
DHW Condition-Ambient Temp.(DB/WB)7/6°C,Water Temp.(In/Out):15/55°C					
Heating Capacity Range (kw)		5.2~10.2	6.6~13.2	7.2~16.2	8.8~19.6
Heating Power Input Range(kw)		1.10~2.87	1.41~3.73	1.54~4.58	1.89~5.60
Cop Range		3.55~4.71	3.54~4.67	3.54~4.67	3.50~4.66
Heated Water Output (l/h)		219	283	348	421
Cooling Condition - Ambient Temp.(DB/WB)35/24°C,Water Temp.(In/Out):12/7°C					
Cooling Capacity Range (kw)		3.3~8.2	4.3~10.8	5.6~14.1	6.9~17.0
Cooling Power Input Range(kw)		1.08~3.07	1.39~3.99	1.80~5.38	2.21~6.49
EER Range		2.67~3.06	2.71~3.10	2.62~3.11	2.62~3.12
Space Heating (According to EN14825:2022) Average Climate Water Outlet 35°C	Rated heat output (kW)	7.61	10.27	12.17	15.96
	ErP Level	A+++	A+++	A+++	A+++
	Sound pressure level (dB(A)) at 1 meter	43	44	41	42
	Sound power level (dB(A))	58	59	56	58
Space Heating (According to EN14825:2022) Average Climate Water Outlet 55°C	Rated heat output (kW)	8.10	12.17	12.03	15.86
	ErP Level	A++	A++	A++	A++
	Sound pressure level (dB(A)) at 1 meter	42	45	43	43
	Sound power level (dB(A))	57	59	58	58
Power Supply		380V/3Ph/50-60Hz			
Diameter Of Pipe (mm)		DN25	DN25	DN25	DN32
Max water head(m)		9	9	12	12
Net Weight (kg)		120	138	165	220
Body size(W*D*H) (mm)		1080×460×960	1080×480×1060	1080×480×1372	1160×480×1580
Operation Ambient Temp. (°c)		-25~43			
Operating Water Temperature (°c)		28~65(DHW)			
Operating Water Temperature (°c)		15~70(Heating)			
Operating Water Temperature (°c)		7~35(Cooling)			

Zero Carbon

The refrigerant R290 is directly sourced from natural gas. Renowned for its exceptionally low Global Warming Potential (GWP), superior thermal exchange efficiency, and consistently stable and reliable performance, R290 stands out as the industry's most environmentally responsible refrigerant. With zero carbon emissions and minimal charge requirements, it is widely recognized as the leading eco-friendly refrigerant with unparalleled global potential.

R290 NATURAL REFRIGERANT

Since its foundation in **1974 SOLE S.A.** has been commited to environmental protection and CO_2 emissions reduction.

R290 zero carbon | 4.69 SCOP MAX | A+++ Energy-Saving | 75°C High temp Water outlet | SG Ready Smart Heat Pumps | PV-READY

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