



Advantages of SOLE Commercial heat pumps

- Monoblock type with integrated control board.
- **Air vent included in packaging.**
- **New eco-friendly refrigerant R290.**
- Hot water **temperature up to 78°C.**
- Warranty: 5 years for the compressor and 2 years 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 committed to environmental protection and CO₂ 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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High temperature Commercial Heat Pumps

HEATING, COOLING & HOT WATER SOLUTIONS

78°C
High temp
Water outlet



A⁺⁺⁺
Energy-Saving

R290
zero carbon

78°C

High temp
Water outlet



**Monoblock type with integrated 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

78°C
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Water outlet



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COMMERCIAL

Full DC Inverter Heat Pumps

 Heating  Cooling  Hot water



 **ZERO CARBON** Buildings
One Stop Air-to-water Heat Pump Solutions

78°C
High temp
Water outlet

 **R290**
NATURAL
REFRIGERANT

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.

Impressive Performance and Energy Efficiency

R290 refrigerant, ODP=0, low GWP(GWP=3)

Dual DC Inverter Technology: Delivers precise and efficient heating with a maximum output temperature of 78°C.

Top Efficiency Ratings: Achieves ErP Level A+++ (at 35°C) with a high COP of 5.62.

Built-in Wi-Fi Module: Provides seamless connectivity and control.

Multilingual Support: Easy operation in various languages.

SG Smart Grid Functionality: Enhances energy management and integration.

Automatic Temperature Adjustment: Ensures optimal performance.

Night Operation Mode: Convenient control during off-hours.

Cascade Control: Supports up to 8 units for flexible scaling.

Timed High-Temperature Disinfection: Ensure the safe and healthy use of hot water.

IoT Cloud Management Platform

Customizable Features: Options for built-in pumps and Refrigerant leak sensors, as well as external heat source and water tank control.

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.



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DC Inverter Compressor

THREE PHASE (380V /50-60Hz)

Commercial heat pumps, three-phase, monoblock with integrated control board and R290 refrigerant. An air eliminator is included in the package. Cooling, heating and DHW.

MODEL	HPM50KW3PHR290	HPM92KW3PHR290
DHW Condition-Ambient Temp.(DB/WB):20/15°C,Water Temp.(In/Out):15/55°C		
Heating Capacity Range (kW)	23.8~68	40.0~130
Heating Power Input Range(kW)	4.23~15.46	9.0~29.5
COP Range	4.46~5.62	4.4~5.5
Heated water output (L/H)	1462	2580
Heating Condition - Ambient Temp.(DB/WB):7/6°C,Water Temp.(In/Out):30/35°C		
Heating Capacity Range (kW)	18.4~49.25	35.2~92
Heating Power Input Range(kW)	4.23~12.96	7.0~23.8
COP Range	3.8~4.3	3.86~5.02
Cooling Condition - Ambient Temp.(DB/WB):35/24°C,Water Temp.(In/Out):12/7°C		
Cooling Capacity Range (kW)	13.8~34.5	25~66
Cooling Power Input Range (kW)	5.2~16.2	8.92~30.7
EER Range	2.12~2.65	2.15~2.8
ErP Level (35°C)	A+++	A+++
ErP Level (55°C)	A++	A++
Power supply	380V/3Ph/50-60Hz	380V/3Ph/50-60Hz
Max. power input (kW)	20	40
Max. current (A)	32	64
Fuse or circuit breaker (A)	40	80
Wire diameter (mm²)	10mm²	22mm²
Diameter of pipe	G1.5"	G2"
Sound power level (dB(A))	≤77	≤85
Sound pressure level (dB(A))	62	65
Water Flow(m3/h)	5.8	11.6
Water Pressure Drop (max) kPa	80	120
Net Weight (kg)	370	745
Body size(W*D*H) (mm)	1195×980×1900	2510×979×1882
Packing size(W*D*H)(Polywood)	1275*1060*2100	2560×1030×2000
IP Grade (Level of protection)	IPX4	IPX4
Anti-electric shock Rate	I	I
Refrigerant	R290	R290
Compressor Brand	HIGHLY	HIGHLY
Operation Ambient Temp. (°C)	-25~43°C	-25~43°C
Water outlet temperature (°C)	20~78°C(DHW)	20~78°C(DHW)
Water outlet temperature (°C)	20~78°C(Heating)	20~78°C(Heating)
Water outlet temperature (°C)	7~35°C(Cooling)	7~35°C(Cooling)

R290
zero carbon

4.69
SCOP
MAX

A+++
Energy-Saving

78°C
High temp
Water outlet

SG
Ready
Smart Heat Pumps

PV-READY

Note: In the process of continuous optimization the parameters of some products may change. Please refer to the actual products. The information contained herein is subject to change without notice. Reproducing, adaptation or translation without prior written permission is prohibited.