



MR. HYBRID

R290 AIR TO WATER HYBRID HEAT PUMP



A⁺⁺



What is a hybrid heat pump?
A hybrid heat pump is a heating and cooling system that combines a heat pump with an additional heating source, such as a gas boiler or electric resistance heater.

It operates by using the heat pump for most of the heating or cooling, leveraging its high efficiency, and switches to the secondary heating source during extremely cold conditions or when greater heat output is needed. This combination ensures optimal energy efficiency, cost savings, and reliable performance throughout varying weather conditions.



Next Generation Technology



R290 refrigerant is eco-friendly with a low Global Warming Potential (GWP) and zero Ozone Depletion Potential (ODP). It offers high energy efficiency, excellent thermodynamic properties, and compliance with strict environmental regulations.

Features & Benefits



Efficient Hybrid Operation

Switches between gas, electricity, and hybrid modes for optimal efficiency and reduced costs.



Energy-Saving Performance

Reduces energy consumption for cost-effective, efficient heating, cooling, and hot water.



Extreme Weather Capability

Operates efficiently in freezing temperatures and hot climates with A++ energy efficiency.



Compact Design, Big Impact

Space-saving design fits perfectly even in homes with limited outdoor space, such as narrow balcony.



Long-Lasting & Low Maintenance

Lasts over 10 years with minimal annual maintenance for reliable, long-term performance.



Flexible and Adaptable

Works with various thermostats and heating systems for ultimate control and convenience.



Whisper-Quiet Comfort

Whisper-quiet operation ensures peaceful living without disturbing neighbors or sacrificing performance.



Sustainable & Green

Reduces emissions, especially when paired with renewable energy sources, for eco-friendly operation.



Discover more applications

Attic Floor

The attic space of the pitched roof is usually very small and low. For this kind of attic space, our solution is a wall-mounted hybrid heat pump with a horizontal hydraulic system.



Basement

Basements are usually a good place to place large appliances and heating equipment. We can provide two solutions: outdoor mono heat pump with hydraulic system, or indoor wall-mounted heat pump with hydraulic system, which can save a lot of space.



Apartment Balcony

The balconies of apartments are usually very narrow, so we can install the hydronic system on the balcony and connect it to the wall-mounted hybrid heat pump.



+ SPECIFICATIONS

Model	/	HWHRHP05SR3-A
Power Supply	V/Ph/Hz	220-240V~ 50Hz
Heating(A7/6°C,W30/35°C)		
Heating Capacity	kw	5.09
Power Input	kw	1.27
COP	W/W	4.01
Heating(A7/6°C,W47/55°C)		
Heating Capacity	kw	4.58
Power Input	kw	1.52
COP	W/W	3.01
Cooling(A35/24°C,W12/7°C)		
Cooling Capacity	kw	4.5
Power Input	kw	1.44
EER	W/W	3.13
ERP Level(35°C)	/	A ⁺⁺
Rated water flow	m3/h	1.10
MAX input power	kw	2.5
MAX input current	A	10.87
Motor type of outdoor unit	/	DC motor
Type of fan	/	Centrigugal
Air flow	m3/h	1000
Static pressure	pa	80.00
Compressor	/	Hai Li/Rotary
Water Pump	/	Inverter/Built-in
Refrigerant	/	R290
Charge volume	/	600g
Pump head	/	6m
Air side heat exchanger	/	Finned tube
Water side heat exchanger		Plate type
Defrost	/	Auto defrost with 4 way valve
Heat recovery box	/	Mixed air type
Fresh air flow	%	10%~100%
Waterproof grade	/	IPX4
Sound pressure	dB(A)	54.00
Max water outlet temperature	°C	75
Cooling ambient temperature	°C	-5 ~43
Heating ambient temperature	°C	-25 ~ 35
DHW ambient temperature	°C	-25 ~43
Cooling Outlet water temperature	°C	5 ~ 30
Heating Outlet water temperature	°C	12 ~ 65
DHW (tank) Outlet water temperature	°C	10 ~ 60
Water side connection	/	R5/4"
Air side connection	mm	2*250
Controller	/	4 inch touch screen
Body & Panel	/	Galvanized steel with coating
Unit dimension	mm	760x620x465
Net weight	kg	75



Hi-end Heat Pump Solution Provider

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