



BENEFIT HUMAN BEINGS WITH NEW ENERGY TECHNOLOGY

Founded in 2004, stock code 870092

Power World Machinery Equipment Co., Ltd. is one of the largest air to water heat pump manufacturers and service providers in China, an innovative pioneer in the zero-carbon heat pump field, continuously honored with the top 10 leading brands in China. In the past 20 years, we have been focused on the R&D, production and sales of heat pumps, committed to providing high-quality heating and cooling solutions to users around the world.

Germany

European Service center

196000m²

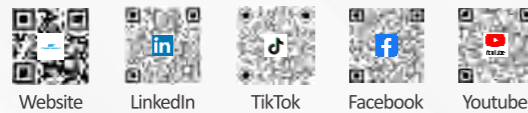
4 comprehensive Production Bases

300000+

Annual export volume

500-1000

Employees



Power World Machinery Equipment Co., Ltd.

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R290

[Full DC Inverter]

CLEANLIFE PLUS
 SERIES HYBRID HEAT PUMP

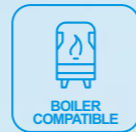
Specially designed for zero-carbon smart energy-saving homes

HEATING, COOLING AND DHW IN ONE SYSTEM

R290 Cleanlife Plus heat pump has a higher water outlet temperature, up to 75°C, it could be connected to smart grid/pv system, compatible with a variety of external heat sources, and equipped with dual-zone precise temperature control, also it could have a stable performance in extremely cold environments.



Automatically select energy supply source



WIFI



Timer setting



Noise≤47dB at 1 Meter



Languages



Max SCOP



32 climate curves



Intelligent defrost



20~70°C smart temp adjustment



Sterilization Each 7 days



Cascade control maximum 8 units



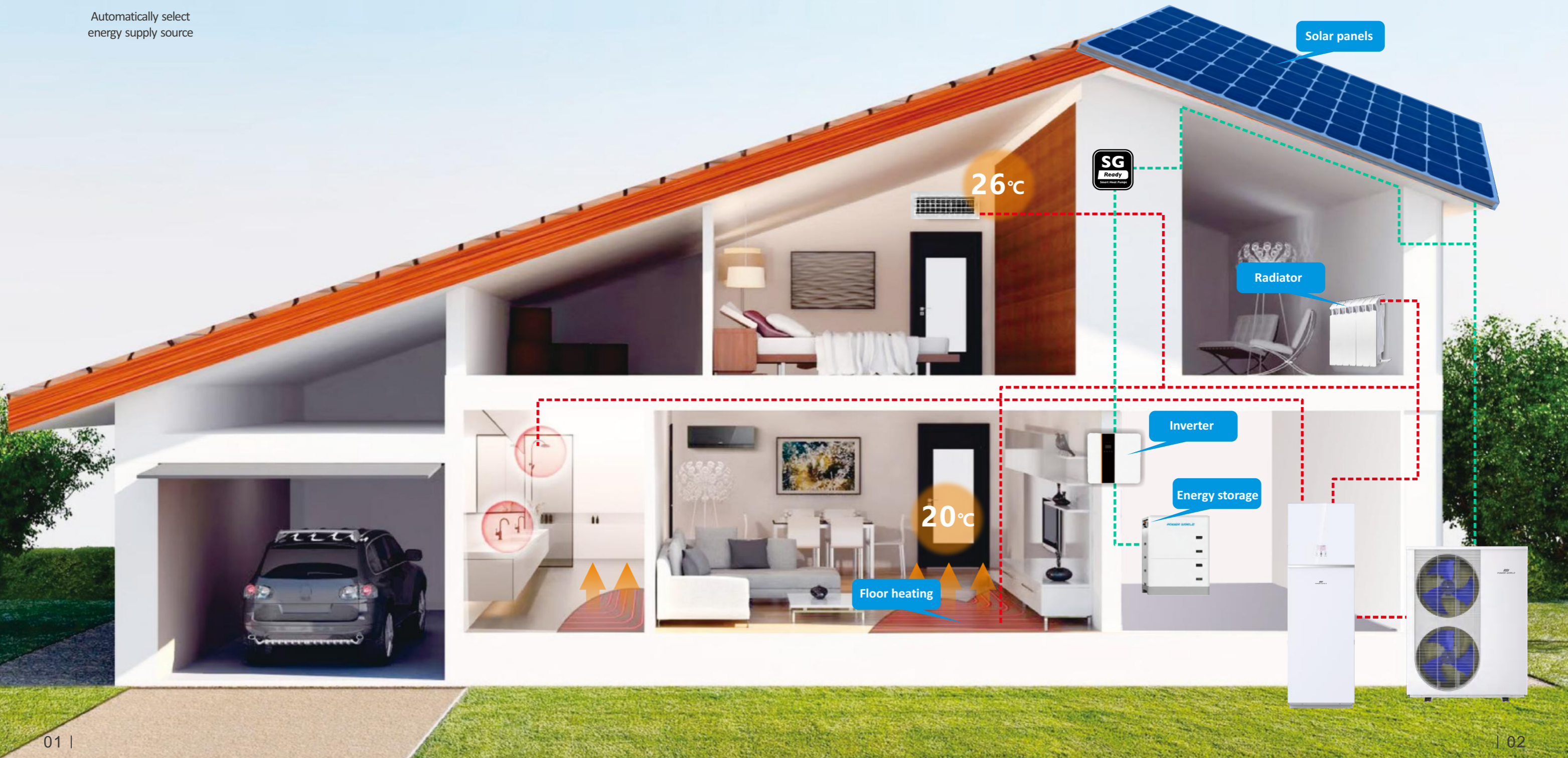
Real-time Energy monitoring



A+++ Energy class at 35°C





-25°C~43°C Ambient temp





HEAT PUMP SOLUTIONS


Two configurations: more complete functions, more efficient installation/maintenance, and can meet diverse system requirements.


 Combined supply of multiple heat sources

 Auxiliary heat source (AHS) control

 Solar energy smart control

 Tank booster heater smart control

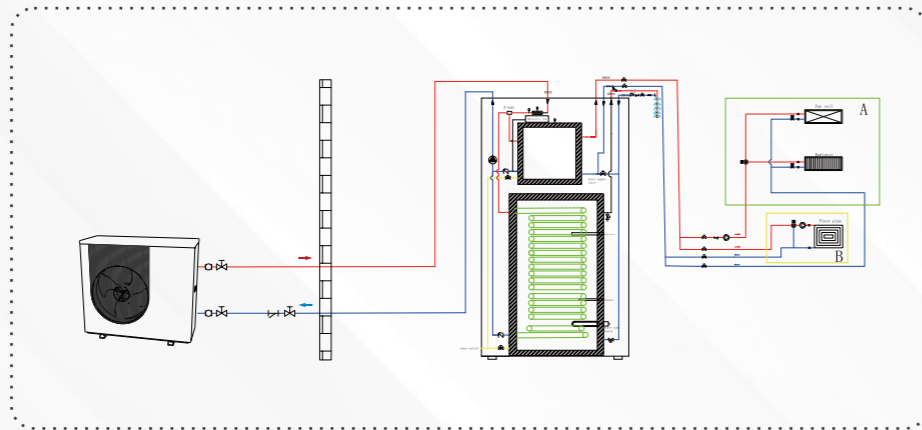
 2 Zone Temp Control

 Max Cascade 8 Units

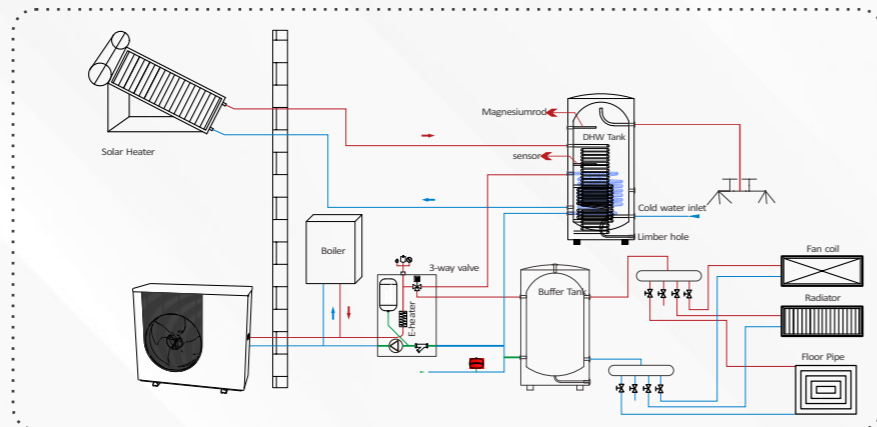
01 Outdoor Unit + Indoor Unit (Integrated DHW Tank)



Solar Coil Optional: Built-in/None



02 HEAT PUMP (OUTDOOR UNIT) + HYDRO BOX (INDOOR UNIT)



6.7-inch touch screen


- Automatic mode
- Holiday mode
- Silent mode
- Energy saving mode


- Real-time Monitoring
- Operating Status
- History Record
- Timer setting
- Languages


* Support RS485 and Modbus communication

 8 Languages


 6.7 INCH touch screen

 Built-in temperature sensor

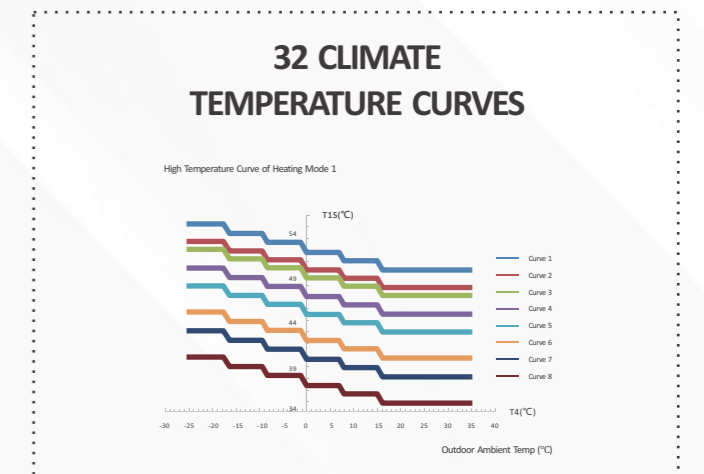
 Built-in WIFI module, APP remote control

 High-temperature sterilization

 SG-Ready/ PV-Ready control

 **AUTO** Automatic fault diagnosis

 Dual/triple zone temperature display



FLEXIBLE MODULES, SIMPLIFY YOUR INSTALLATION

Integrated system, fast installation

The terminal control and waterway system components are integrated into a compact box, and the installer can flexibly adjust the installation plan according to the site, simplifying the installation steps and reducing installation difficulty and cost.

Internationally renowned brand components

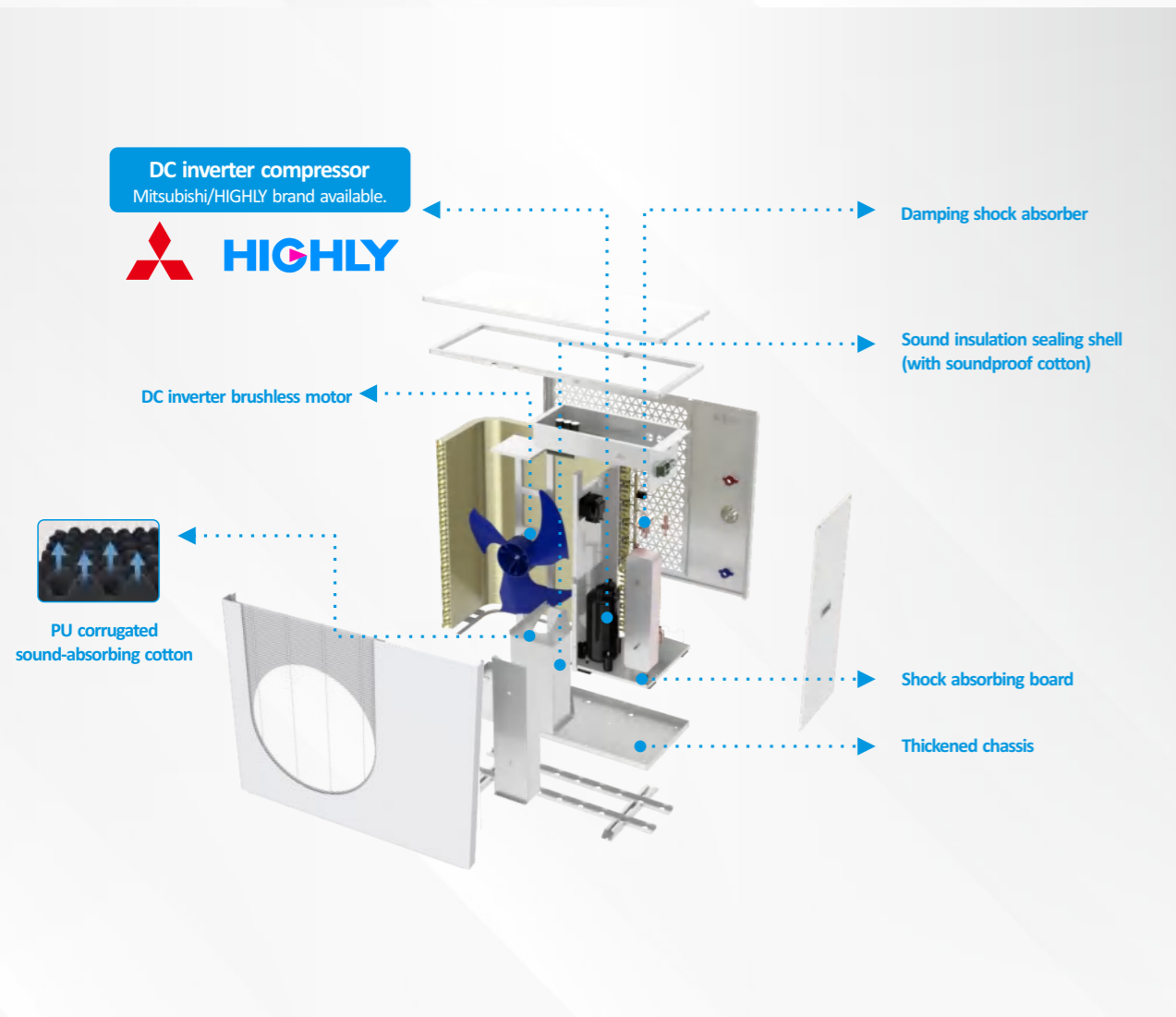
Stable performance, safe and reliable, long service life.

Appearance and specifications customizable

Tailor-made, easily create brand characteristics.

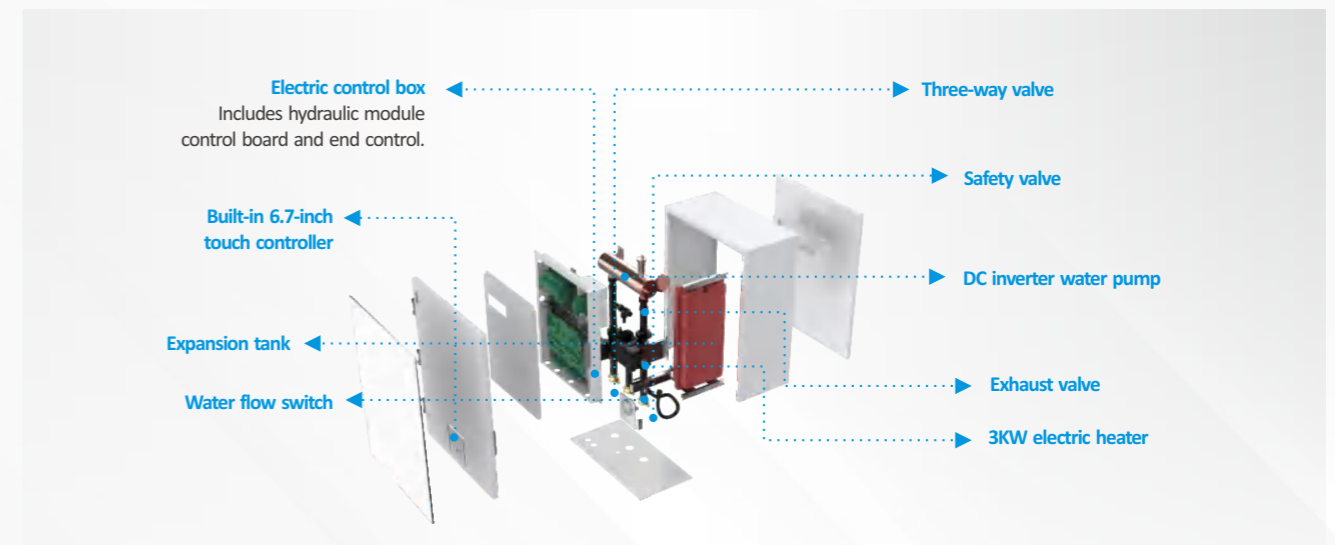
Outdoor Unit

Multiple noise reduction, noise as low as 47dB(A) at 1M



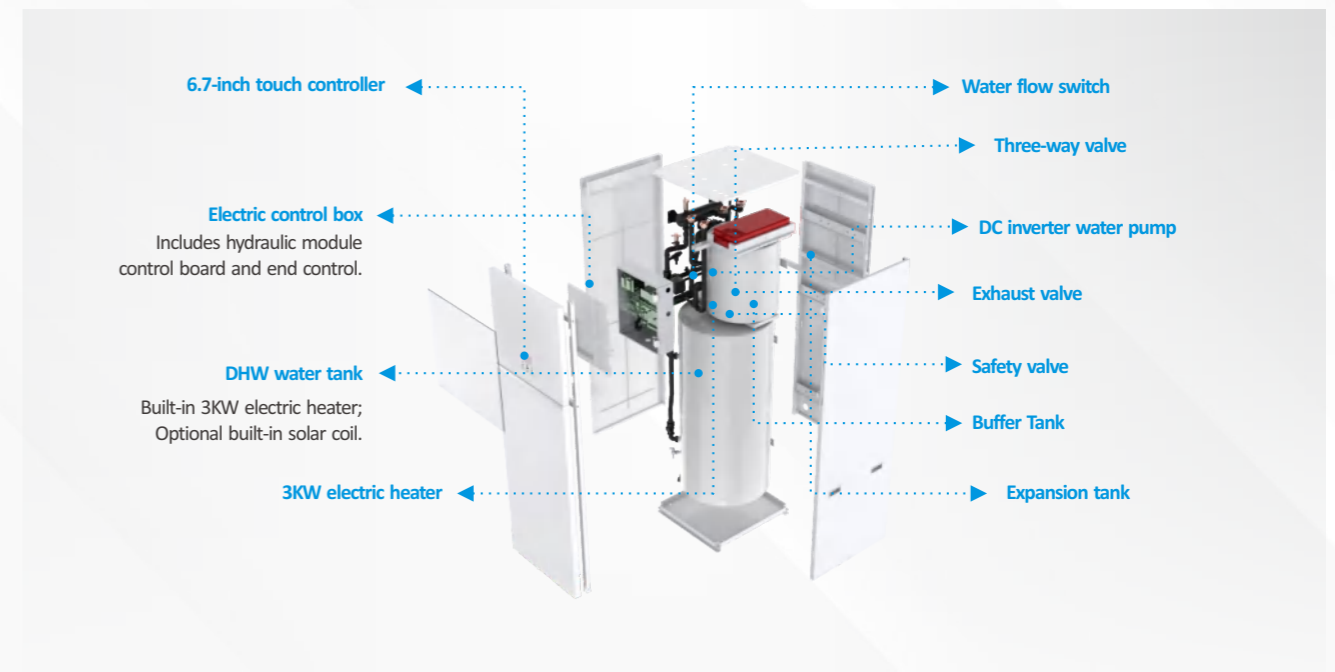
Hydro Box Unit

The best partner for heat pump systems, making installation/maintenance easier



Integrated DHW Tank

This integrated water tank system seamlessly combines hydraulic modules, DHW tanks, and buffer tanks within a compact casing, allowing for flexible installation and saving on installation space. Its carefully designed piping layout and configuration minimize heat loss during operation, enhancing the unit's performance and operational efficiency. It ensures reliable and efficient operation even in extreme environments, maintaining effectiveness down to -25°C. This system is engineered to provide year-round heating, cooling, and domestic hot water heating services with optimal efficiency for users' comfort and convenience.



Outdoor unit

(Highly Compressor)



DC INVERTER HEAT PUMP FOR COOLING HEATING AND DHW (R290)				OUTDOOR UNIT
Model	PW030-DKZLRS-E/S(ODU)	PW040-DKZLRS-E/S(ODU)	PW050-DKZLRS-E(ODU)	PW060-DKZLRS-E(ODU)
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	8.8~22.0
Heating Power Input Range(kw)	0.64~2.18	0.85~2.95	1.13~3.83	1.68~5.77
Cop Range	3.81~5.17	3.86~5.29	3.86~5.22	3.81~5.24
DHW Condition-Ambient Temp.(DB/WB)7/6°C,Water Temp.(In/Out):15/55°C				
Heating Capacity Range (kw)	3.7~7.4	5.2~10.2	6.6~13.2	7.8~17.6
Heating Power Input Range(kw)	0.79~2.10	1.10~2.87	1.41~3.73	1.67~5.01
Cop Range	3.52~4.69	3.55~4.71	3.54~4.67	3.51~4.66
Heated Water Output (l/h)	159	219	283	377
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	6.2~15.3
Cooling Power Input Range(kw)	0.79~2.19	1.08~3.07	1.39~3.99	1.99~5.60
EER Range	2.65~3.04	2.67~3.06	2.71~3.10	2.73~3.12
ERP Level (35°C)	A+++	A+++	A+++	A+++
Refrigerant	R290			
Power Supply	230V/1Ph/50Hz/60Hz		380V/3Ph/50-60Hz	
Diameter Of Pipe (mm)	DN25	DN25	DN25	DN25
Noise dB(a)	≤47	≤50	≤52	≤53
Net Weight (kg)	105	116	130	166
Net Dimension (L/W/H) mm	1080×460×820	1080×460×960	1080×480×1060	1080×480×1372
Compressor Brand	HIGHLY			
Operation Ambient Temp. (°c)	-25~43			
Operating Water Temperature (°c)	20~65(DHW)			
Operating Water Temperature (°c)	20~70(Heating)			
Operating Water Temperature (°c)	7~35(Cooling)			

Note:
The data above is for reference only,please refer to the nameplate on the unit if for more specific data.

Outdoor unit

(Mitsubishi Compressor)



DC INVERTER HEAT PUMP FOR COOLING HEATING AND DHW (R290)				OUTDOOR UNIT
Model	PW030-DKZLRS-E1/S(ODU)	PW040-DKZLRS-E1/S(ODU)	PW050-DKZLRS-E1(ODU)	PW055-DKZLRS-E1(ODU)
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	7.2~18.2
Heating Power Input Range(kw)	0.64~2.07	0.85~2.85	1.13~3.69	1.38~4.54
Cop Range	4.01~5.17	4.00~5.29	4.01~5.22	4.01~5.22
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	7.5~16.8
Heating Power Input Range(kw)	0.79~2.10	1.10~2.87	1.41~3.73	1.61~4.79
Cop Range	3.52~4.69	3.55~4.71	3.54~4.67	3.51~4.66
Heated Water Output (l/h)	159	219	283	361
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	5.6~14.1
Cooling Power Input Range(kw)	0.79~2.19	1.08~3.28	1.39~4.15	1.80~5.38
EER Range	2.65~3.04	2.50~3.06	2.60~3.10	2.62~3.11
ERP Level (35°C)	A+++	A+++	A+++	A+++
Refrigerant	R290			
Power Supply	230V/1Ph/50Hz/60Hz		380V/3Ph/50-60Hz	
Diameter Of Pipe (mm)	DN25	DN25	DN25	DN25
Noise dB(a)	≤47	≤50	≤52	≤53
Net Weight (kg)	105	116	130	166
Net Dimension (L/W/H) mm	1080×460×820	1080×460×960	1080×480×1060	1080×480×1372
Compressor Brand	MITSUBISHI			
Operation Ambient Temp. (°c)	-25~43			
Operating Water Temperature (°c)	20~65(DHW)			
Operating Water Temperature (°c)	20~70(Heating)			
Operating Water Temperature (°c)	7~35(Cooling)			

Note:
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Hydro Module



HYDRO MODULE		INDOOR UNIT	
Model	PW030/040-E/S(IDU)	PW050/060-E(IDU)	
3-Way Valve	ACOL/DN25	ACOL/DN25	
Electric Heater	3kW/220V	3kW/220V	
DC Inverter Water Pump	Shimge/APM25-9	Shimge/APF25-12	
Max water head(m)	9	12	
Expansion Tank(L)	8L	8L	
Diameter of pipe (mm)	DN25	DN25	
Safety valve(MPa)	0.3	0.3	
Leakage Switch(A)	Schneider/40A	Schneider/32A	
Cabinet	Galvanized powder coated steel		
Package	Splint/Carton		
Power Supply	230V/1Ph/50-60Hz	380V/3Ph/50-60Hz	
Net Weight(kg)	43		
Gross Weight(kg)	55		
Net Dimension(mm)	740*520*300	740*520*300	
Applicable Models	PW030/PW040(Single phase)	PW050/PW060(Three-phase)	



Note:
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Integrated DHW Tank



INTEGRATED DHW TANK (STANDARD VERSION)		INDOOR UNIT	
Model	PW030/040-E/S(IDU)	PW050/060-E(IDU)	
3-Way Valve	ACOL/DN25	ACOL/DN25	
Hot water tank	200L	250L	
Electric Heater	3kW+3kW/220V		
DC Inverter Water Pump	Shimge/APM25-9	Shimge/APF25-12	
Max water head(m)	9	12	
Expansion Tank(L)	8L	8L	
Diameter of pipe (mm)	DN25	DN25	
Safety valve(MPa)	0.3	0.3	
Leakage Switch(A)	Schneider/40A	Schneider/32A	
Cabinet	Galvanized powder coated steel		
Package	Splint/Carton		
Power Supply	230V/1Ph/50-60Hz	380V/3Ph/50-60Hz	
Net Weight(kg)	150	185	
Gross Weight(kg)	175	215	
Net Dimension(mm)	645*645*1745	645*645*2035	
Packing Dimension(mm)	710*710*1880	710*710*2170	
Applicable Models	PW030/PW040(Single phase)	PW050/PW060(Three-phase)	

INTEGRATED DHW TANK (BUILT-IN SOLAR COIL)		INDOOR UNIT	
Model	PW030/040-E/S(IDU)	PW050/060-E(IDU)	
3-Way Valve	ACOL/DN25	ACOL/DN25	
Hot water tank	300L	500L	
Electric Heater	3kW+3kW/220V		
Solar coil	φ 25mm*10m	φ 25mm*10m	
DC Inverter Water Pump	Shimge/APM25-9	Shimge/APF25-12	
Max water head(m)	9	12	
Expansion Tank(L)	8L	8L	
Diameter of pipe (mm)	DN25	DN25	
Safety valve(MPa)	0.3	0.3	
Leakage Switch(A)	Schneider/40A	Schneider/32A	
Cabinet	Galvanized powder coated steel		
Package	Splint/Carton		
Power Supply	230V/1Ph/50-60Hz	380V/3Ph/50-60Hz	
Net Weight(kg)	220	280	
Gross Weight(kg)	250	320	
Net Dimension(mm)	735*735*2035	885*885*1935	
Packing Dimension(mm)	800*800*2170	950*950*2070	
Applicable Models	PW030/PW040(Single phase)	PW050/PW060(Three-phase)	

Note:
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