

# POWER WORLD

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.



### Factory 01

Founded in 2004,  
Area 30,000m²



### Factory 02

Founded in 2022,  
Area 20,000m²



### Factory 03

Officially operational in 2024,  
Area 140,000m²



### Factory 04

Founded in 2022,  
Area 6000m²  
Sheet metal and Fin  
heat exchanger production  
base Annual output value  
50 million CNY



500-1000  
employees



400+  
Patents



the Netherlands & Germany  
European Center

## POWER WORLD MACHINERY EQUIPMENT CO.,LTD.

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Ver.20231226 MCEExpo



EXCELLENT COMPATIBILITY  
AND FLEXIBILITY



Full DC Inverter

## CLEANLIFE PLUS SERIES 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



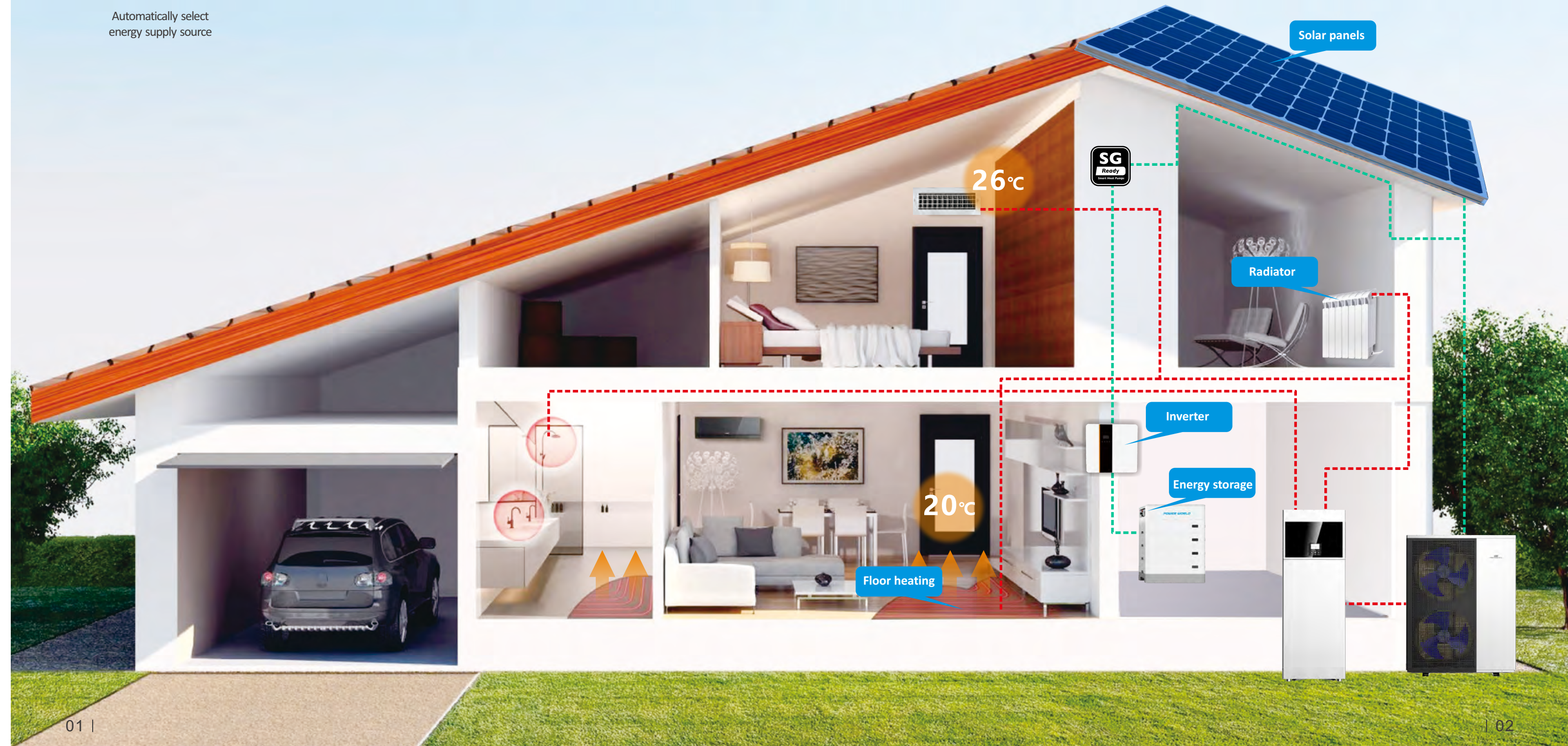
Real-time Energy monitoring



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.


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Combined supply of multiple heat sources
- 

Auxiliary heat source (AHS ) control
- 

Solar energy smart control
- 

Tank booster heater smart control
- 

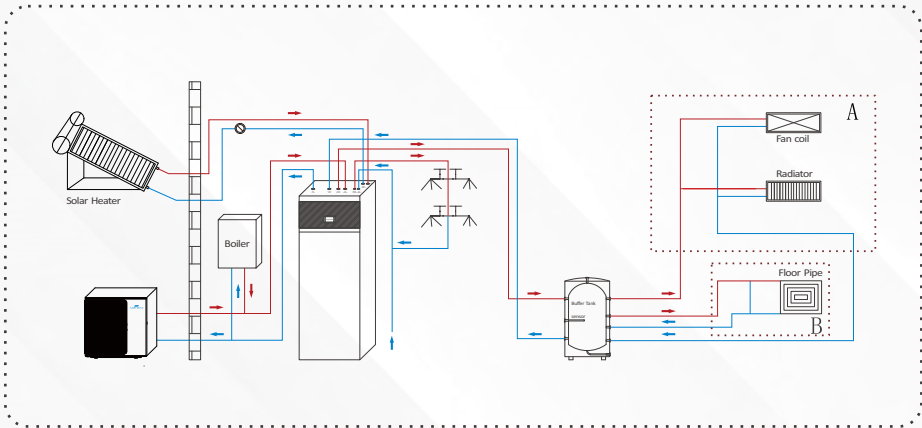
2 Zone Temp Control
- 

Max Cascade 8 Units

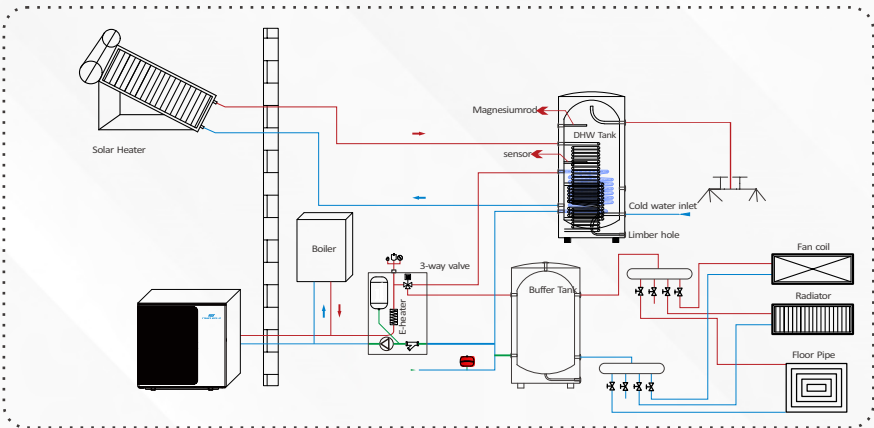
01 Outdoor Unit + Indoor Unit (Integrated DHW Tank)





Solar Coil Optional: Built-in/None





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





- 


8 Languages
- 


6.7 INCH touch screen
- 

Built-in temperature sensor
- 

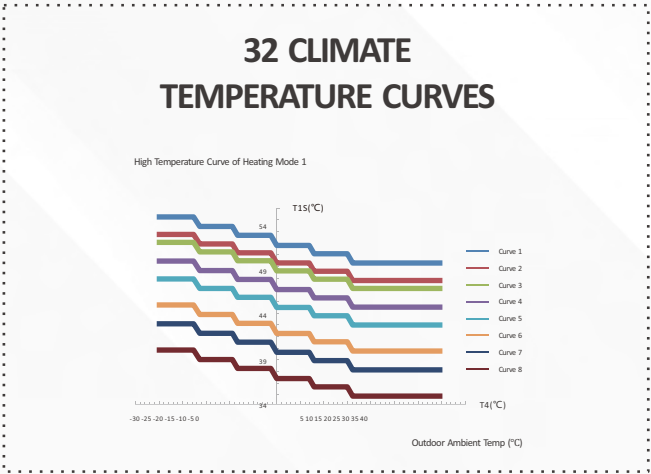
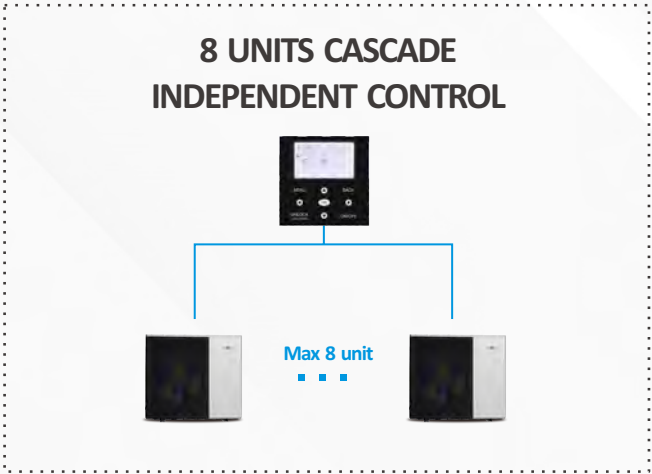
Built-in WIFI module, APP remote control
- 

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.

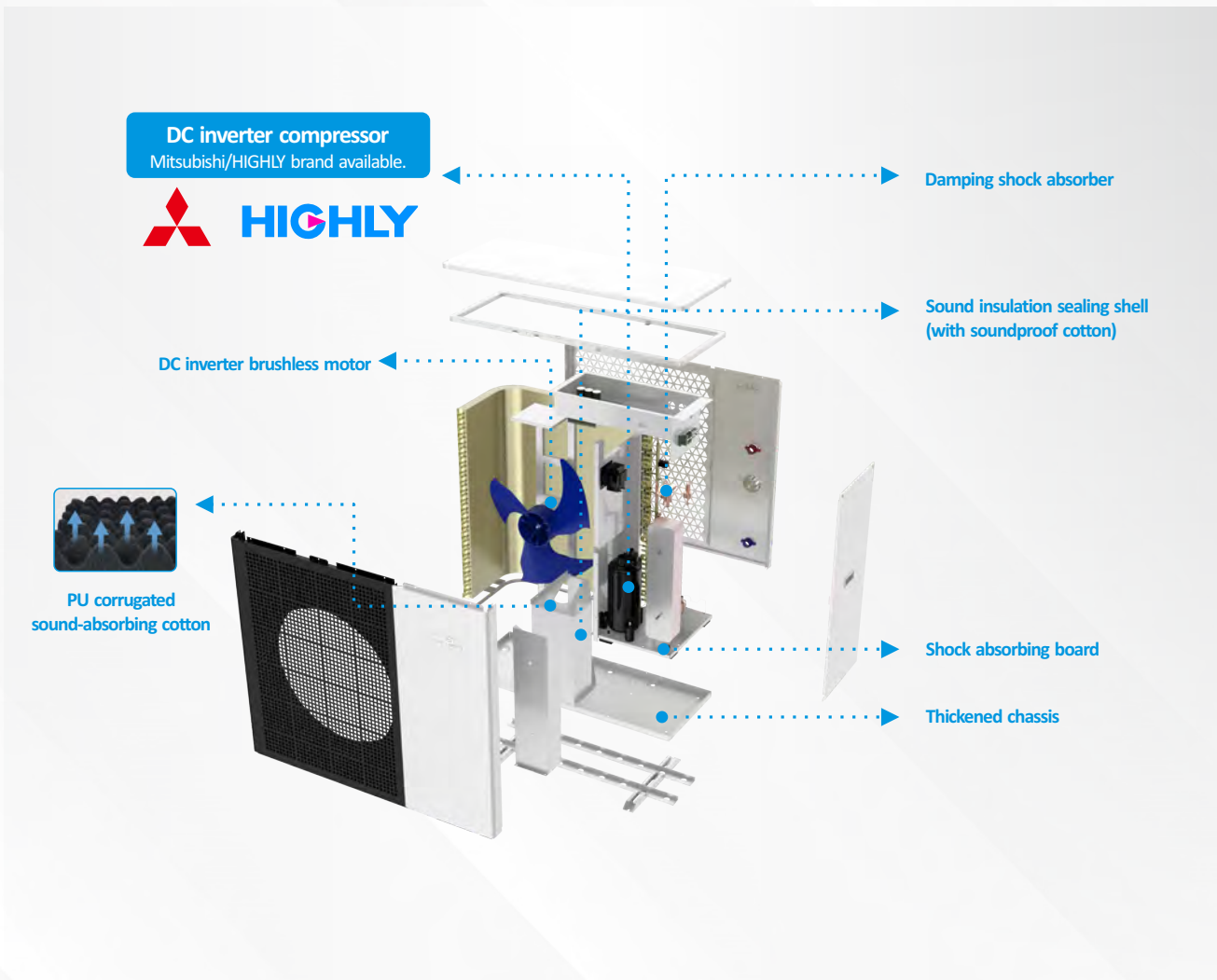
Appearance and specifications customizable

Tailor-made, easily create brand characteristics.

Outdoor Unit

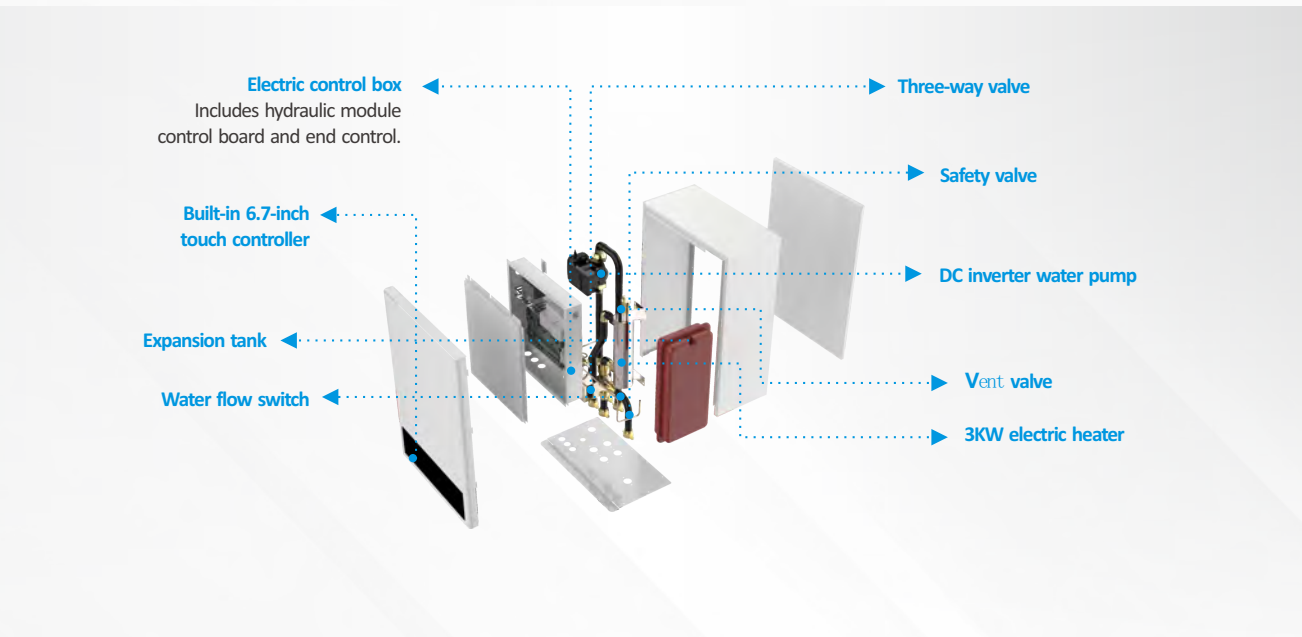
Multiple noise reduction, noise as low as 47dB(A) at 1M

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.



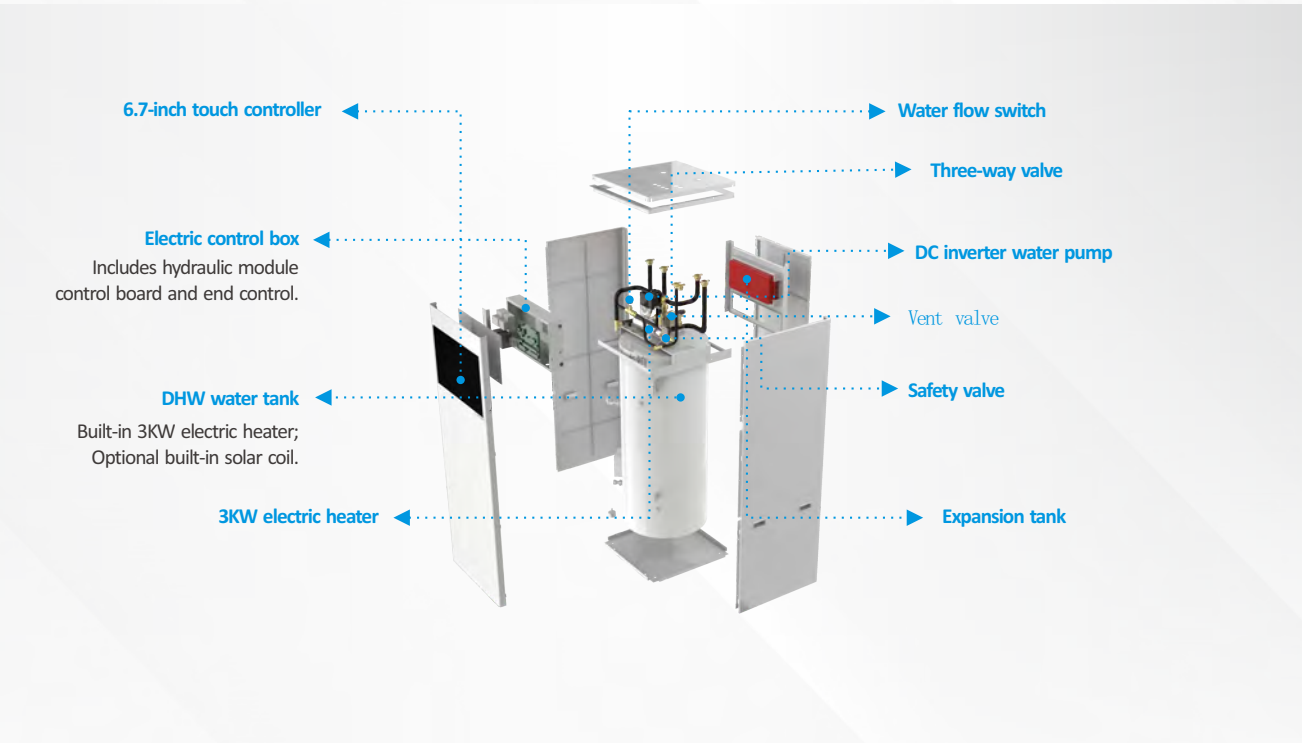
Hydro Box Unit

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



Integrated DHW Tank

The perfect combination of hydraulic module + DHW water tank.





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



Integrated DHW Tank



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 (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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