

**A HEAT PUMP
MANUFACTURER-
ALL FOCUS ON
OEM AND ODM**



**Full DC Inverter
Heat pump**
Variable,Reliable

A photograph of a woman with long brown hair and a baby sleeping peacefully in a bed. The woman is leaning over the baby, and both are covered with a light blue blanket. The scene is dimly lit, suggesting a nighttime setting. The background shows a dark room with a lamp on the right side.

**R32
Residential EVI DC Inverter
Heat Pump**

Main Features of Residential DC Inverter Heat Pump

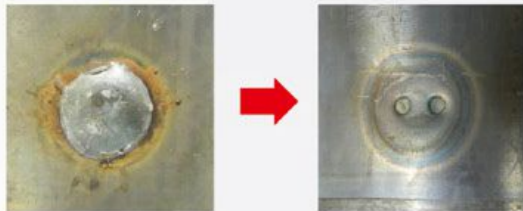


Mitsubishi EVI DC Inverter compressor

Down-sizing technology

01 Heat Caulking

Heat caulking is utilized attaching internal parts instead of conventional arc spot-welding, contributing to minimal distortion and higher efficiency.

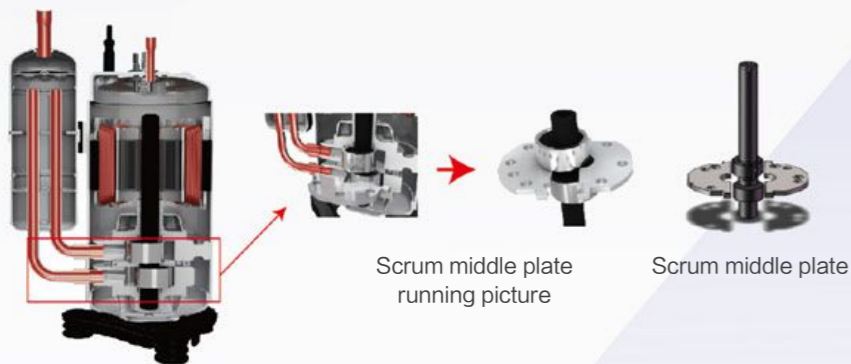


Arc spot welding

Heat caulking

02 Scrum middle plate

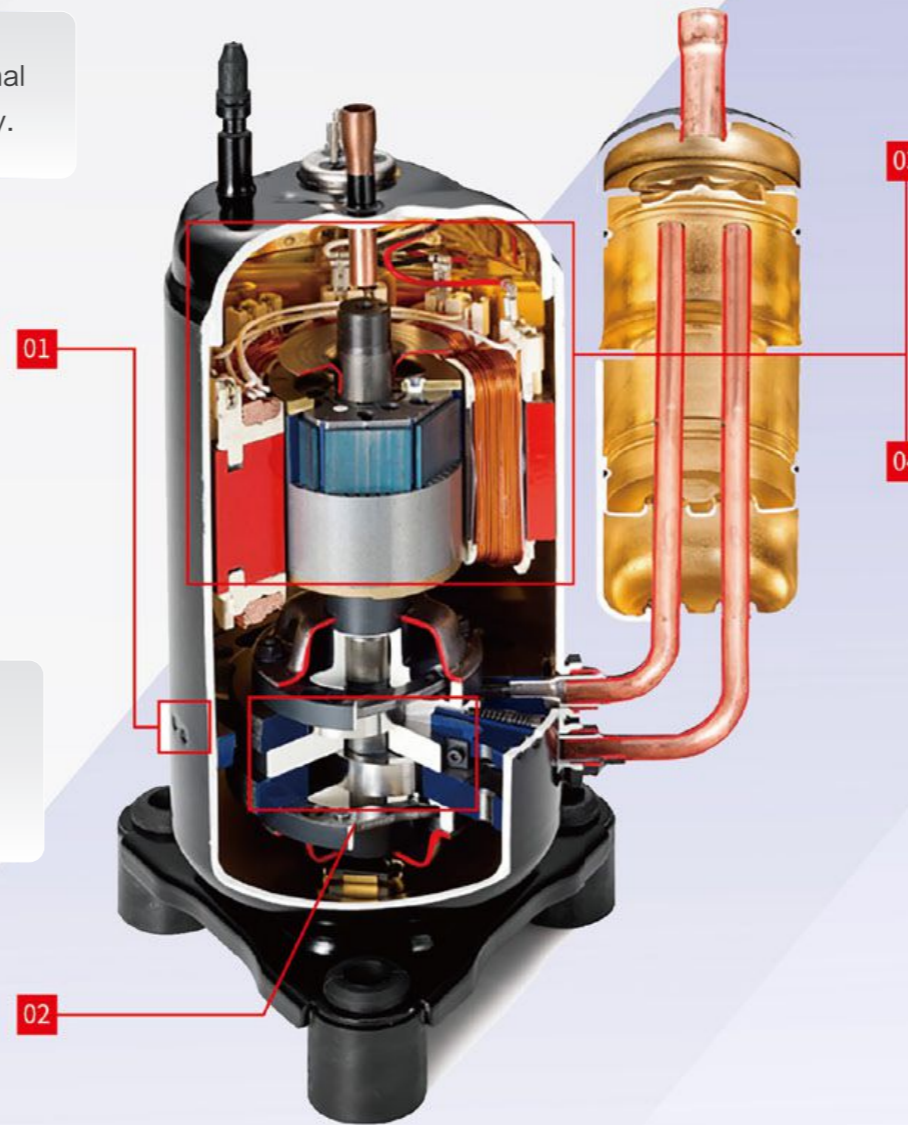
It eliminates the clearance between the piston and the middle plate. At the same time, the eccentricity is expanded, so as to achieve the purpose of small size and high output power.



Scrum middle plate running picture

Scrum middle plate

Technology depend on models



High-efficient motor technology

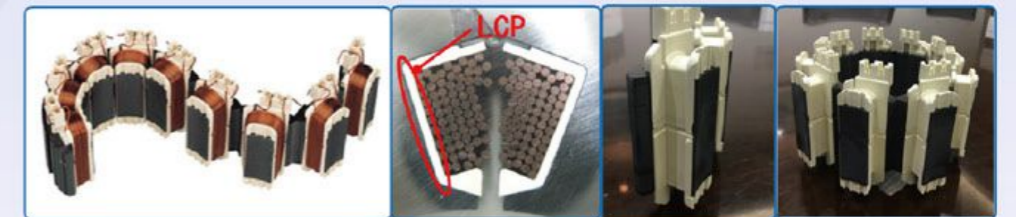
03 Joint lap motor

Ultrahigh-efficiency motors were developed utilizing the Company's innovative dense winding technology and rare earth magnet, enabling them to provide significantly improved reliability.

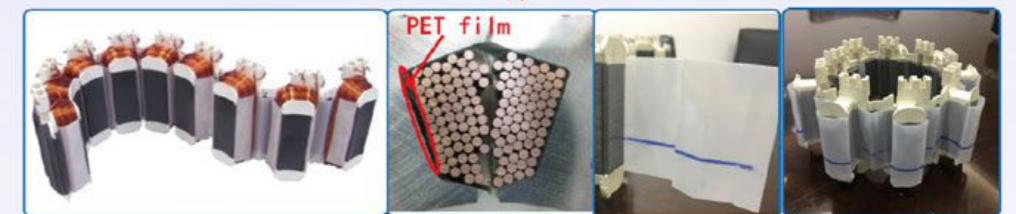


04 High density winding

The new motor insulator --PET FILM :wiring more to get higher density that will result in higher motor efficiency.



High density



FULL DC INVERTER TECHNOLOGY

DC Inverter compressor + DC Brushless fan motor



3 functions, 5 modes:

Heating, Cooling, Domestic Hot Water
Heating + DHW, Cooling + DHW

Note: DHW function for option, please let us know in advance.



User-friendly Controller

Touch screen controller, much easier for understanding and operation.



Sanhua Electronic expansion valve

High precision electronic expansion valve: use electronic expansion valve for controlling, reach 500 steps adjustment, adjust super heat degrees accurately, achieve high efficiency operation system.



Built-in hydraulic module

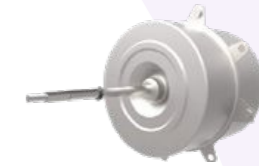
The integrated design is adopted, and the water system is fully configured (built-in hydraulic modules such as DC Inverter water pump and water flow switch, with expansion tank and Y-shaped filter), which can effectively reduce the installation time and space of the water system and save installation costs.



Main Features of Residential DC Inverter Heat Pump

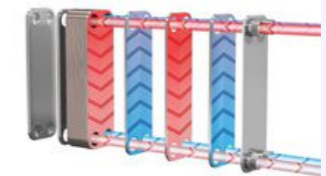
DC brushless motor

The high-quality DC speed-regulating motor can intelligently adjust the air volume and air pressure according to the load conditions to ensure good ventilation, and at the same time reduce power consumption by more than 30% compared with AC motors.



Water side heat exchanger

Brazed plate type heat exchanger: High heat transfer efficiency with large surface area. Compact design saves space. Durable due to brazing. Easy maintenance. Cost-effective. Has low fluid hold-up. Adapts to various fluids. Also features a high thermal response rate.



Intelligent defrosting

After careful debugging by our R&D engineers, defrosts as quickly as possible while ensuring that the heating is less affected. At the same time, with the help of the patented technology – "fin bottom heating tube", the possibility of freezing and frosting at the bottom of the fin is reduced.



Low noise

With the help of Full DC Inverter technology and the sound insulation covering of the whole machine greatly reduces the noise of the unit.



Wifi function

Download our App from IOS or Android, Control your heat pump in your smartphone anywhere, anytime.



Product



EcoQuiet series

Full DC Inverter EVI Air to Water Heat Pump Cooling & Heating & DHW(Monoblock type R32)

EcoQuiet Series Full DC Inverter EVI Air To Water Heat Pump										
Model		EQS10I/BPS	EQS15I/BPS	EQS16I/BPS	EQS20I/BPS	EQS16II/BPS	EQS20II/BPS	EQS27II/BPS	EQS32II/BPS	
Compressor Brand		Mitsubishi								
Water Pump Brand		DC Inverter "AWMT"							On/Off "Wilco"	
Rated heating 1 (A7 W35)	Heating capacity	kW	10.70	16.00	17.10	21.40	17.10	21.40	28.90	34.20
	Input power	kW	2.56	3.83	4.12	5.16	4.11	5.14	6.91	8.18
	COP	W/W	4.18	4.18	4.15	4.15	4.16	4.16	4.18	4.18
Rated heating 2 (A7 W45)	Heating capacity	kW	10.00	15.00	16.00	20.00	16.00	20.00	27.00	32.00
	Input power	kW	2.81	4.36	4.55	5.70	4.55	5.68	7.65	9.12
	COP	W/W	3.56	3.55	3.52	3.51	3.52	3.52	3.53	3.51
Nominal heating (A-12 W41)	Heating capacity	kW	8.00	10.00	11.50	14.50	11.50	14.50	19.50	22.50
	Input power	kW	3.48	4.48	5.11	6.02	5.11	6.02	7.86	9.34
	COP	W/W	2.30	2.23	2.25	2.41	2.25	2.41	2.48	2.41
Low temp. heating (A-20 W41)	Heating capacity	kW	6.20	9.10	9.40	12.50	9.40	12.50	16.50	18.10
	Input power	kW	3.02	4.44	4.56	6.25	4.56	6.25	7.89	9.28
	COP	W/W	2.05	2.05	2.06	2.00	2.06	2.00	2.09	1.95
Rated cooling (A35 W7)	Cooling capacity	kW	12.00	14.00	15.50	19.50	15.50	19.50	25.00	32.00
	Input power	kW	4.07	4.75	5.34	6.63	5.34	6.63	8.56	10.92
	EER	W/W	2.95	2.95	2.90	2.94	2.90	2.94	2.92	2.93
Power supply	V/Ph/Hz	220V/1/50Hz					380V/3/50Hz			
Maximum input power (without electric heating)	kW	5.2	5.5	6.6	10.5	6.6	10.5	12.5	14.5	
Maximum input current (without electric heating)	A	24	25.5	30	48	12.6	20	23.5	26.5	
Maximum outlet water temp. (without electric heating)	°C	58°C								
Operation temp. range	°C	-35 ~ 43°C								
Fan Morot	Type	DC BRUSHLESS								
Refrigerant	Type	R32								
Head outside the unit	m	10.1	8.3	7.8	8	7.8	8	12.4	10	
Water flow required	m ³ /h	1.92	2.32	2.67	3.35	2.67	3.35	4.3	5.5	
Water inlet/outlet pipe	DN	DN32								
Unit dimensions	mm	1000X390X860	1000X390X1390					1200X430X1560		
Net weight	kg	95	100	120	155	120	155	180	195	
Gross weight	kg	105	110	130	175	130	175	200	215	
Noise level	dB(A)	≤ 59	≤ 60	≤ 58	≤ 62	≤ 58	≤ 62	≤ 63	≤ 63	

Test conditions:

- Rated heating 1: Inlet/outlet water temperature 30°C /35°C . Dry bulb/wet bulb temperature 7°C /6°C;
- Rated heating 2: Inlet/outlet water temperature 40°C /45°C . Dry bulb/wet bulb temperature 7°C /6°C;
- Nominal heating: water inlet/outlet temperature -/41°C . Dry bulb/wet bulb temperature -12°C /-14°C;
- Low temperature heating: water inlet/outlet temperature -/41°C . Dry bulb/wet bulb temperature -20°C /--;
- Rated cooling: water inlet/outlet temperature 12°C /7°C . Dry bulb temperature 35°C .