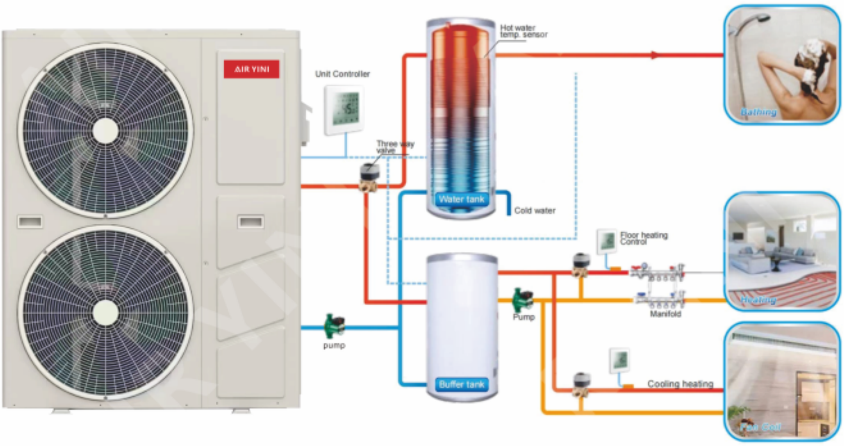
AIR YINI

AIR TO WATER EVI + DC INVERTER HEAT PUMP

HEATING
+COOLING
+DOMESTIC
HOT WATER



Foshan Yini Technology Co.,Ltd.

AIR YINI DC INVERTER TECHNOLOGY

Air Yini air source heat pump EVI technology

Enhance vapor injection (EVI) is the lastest scroll compressor technology. Base on EVI compressor, the refrigerant in the EVI circuit enters the compressor again, after the secondary compression and enters the system, increasing the enthalpy of the refrigerant. AIRYINI EVI heat pump can increase over 30% heating capacity even though works under severe cold climate.

Famous inverter compressor

4 advantages of dual-rotor DC inverter compressor

Dual-rotor inverter compressor, 10-120 Hz ultra wideband working with energy saving and powerful heating.

Low noise: Smooth operation, low vibration. low noise

long life: Accurate process of various parts, stable performance and longer service life

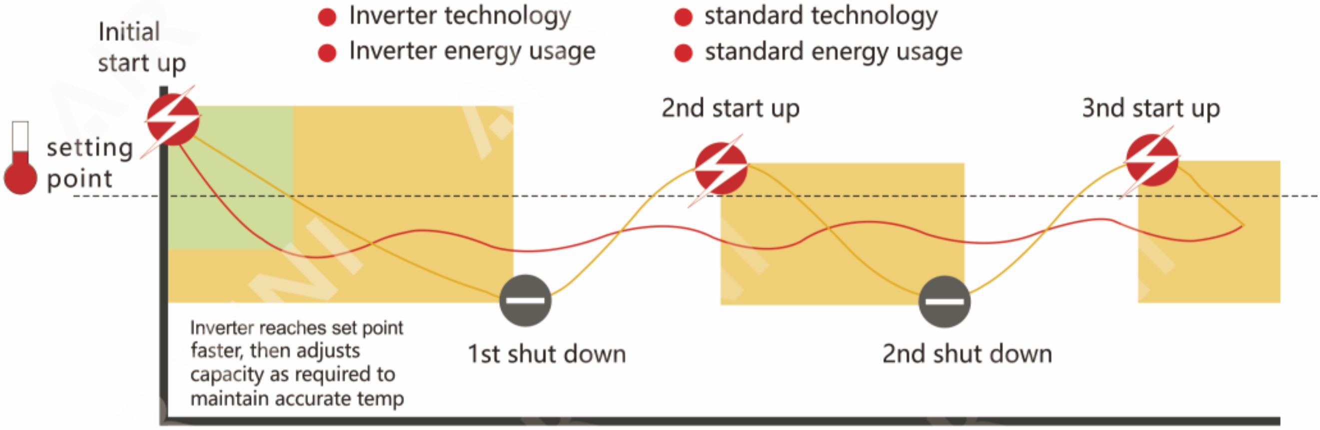
Efficient: DC inverter dual-rotor compressor with higher efficiency

Ultra wideband operation: Compressor operating frequency 10-120Hz

Dual-rotor   Single rotor

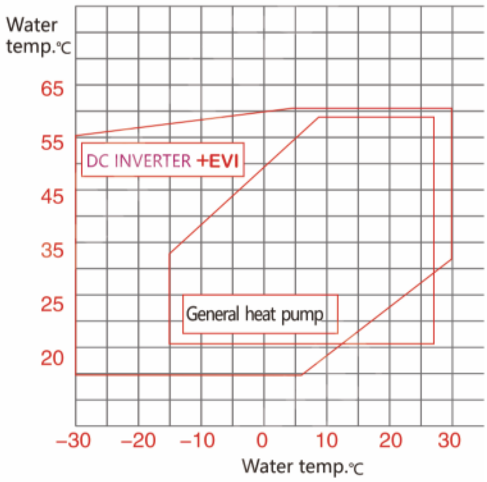
Stepless frequency technology

Stepless Frequency Technology PAM Inverter, constant temperature controlling, small temperature difference, more comfortable.



Energy saving up to 80%

This series heat pump with advanced DC inverter and EVI technology, can save you 80% heating cost compare with the traditional heating device like gas/fuel boiler and electrical heater. It heats fast and works perfectly with the radiator and floor heater to provide you a comfortable living environment even in very cold winter. It is one of the best heating devices available today.



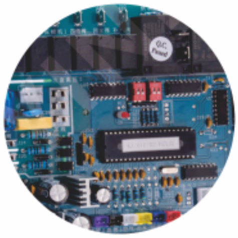
R410a/R32/R290 environmentally friendly refrigerant

The system pressure of R410A/R32 environmentally friendly refrigerant is higher than that of ordinary refrigerant, so the product with R410A/R32 environmentally friendly refrigerant has stronger heating capacity, higher efficiency and more energy saving, while reducing the amount of refrigerant used and reducing copper. Pipe life and reduce the cost of use. The new R410A/R32 environmentally friendly refrigerant is non-toxic, odor-free and chlorine-free. It is the most suitable refrigerant in the world.

Environmentally friendly refrigerant

New intelligent inverter control system

Adopting advanced microcomputer intelligent DC inverter control, low-frequency start, save 1/3 time, soft start which will not produce the peak current of the boot, water temperature fluctuations are small, ensure the operation of the heating system is stable and reliable under the ultra temperature of -30°C.



Intelligent control program

Intelligent controller display

- Human intelligent control
- Long wired distant control
- Multiple timing function
- Internet control support
- Automatic power-off memory function
- Automatic diagnose, error code for trouble
- Available to inquiry any parameter
- Convenient maintenance

Intelligent controller display

High performance parts

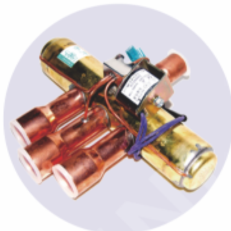
EVI compressor special designed to get high outlet water temperature at ultra temperature working stably at -30°C ambient temperature with only little capacity recession.

Using EEV(electronic expansion valve) to achieving accurate, stable and high efficiency throttling.

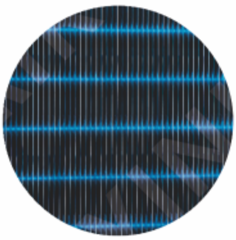
Outdoor Fin-coil heat exchanger is hydrophilic coated, blue fin is optional for more anti-rust for seaside area.

Compressor preheated to protect compressor in cold winter.

Automatic defrosting function with bottom hot piping tech enable our EVI heat pump to work without capacity concession even not necessary to defrost in a long time.



Fully automatic four-way valve



High efficiency hydrophilic aluminum foil fin evaporator

EEV

Efficient blades optimized air duct design

High efficiency heat exchanger

Compact structure, small volume, low water resistance enhance the heat exchanger efficiency.

Standby freezing protection

In order to prevent the water system from freezing, the system has its own intelligent mode. When the water temp. is measured below 4℃, the system starts the circulating water pump, carries out the first stage anti-freezing protection, when the water temp. rises to more than 4℃, the system performs the second stage anti-freezing, start compressor low water temp. heating mode until 12 ℃ to stop operation.

Fast defrosting

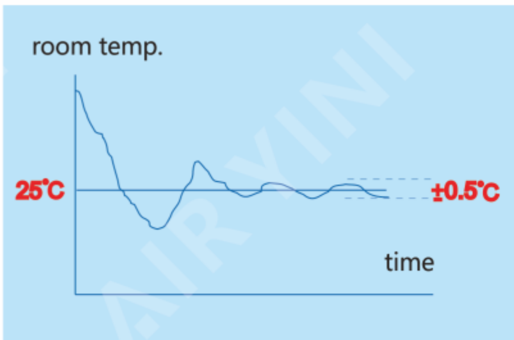
Real time monitoring outdoor and evaporator temp change, determine automatically enter defrosting mode, high efficiency defrosting within 2 minutes, ensure 90 minutes of long time heating.

Safely

Adopt air source heat pump technology, not use hidden troubles created by electric heating and combustible gas for heating, separate water and electrics, safety is the greatest wealth for our life.

Natural and comfort

Water system heating and cooling, water system heat transfer temperature difference is small, evaporation temperature is high, temperature is soft, water is not easy to lose, will not make people feel dry air, no local cold, local heat, uneven heat, cold Feeling hot. The water system has large heat capacity, small temperature fluctuation of winter defrosting water, indoor temperature is guaranteed, water system delivers water through circulating water pump for heat transfer, water temperature is stable, and more comfort.



MODEL			YINI-015-BPCN	YINI-020-BPCN	YINI-030-BPCN	YINI-050-BPCN	YINI-060-BPCN	YINI-080S-BPCN	YINI-100S-BPCN	YINI-120S-BPCN	YINI-150S-BPCN
EVI + DC INVERTER HEATING & COOLING HEAT PUMP											
Power supply			220-240V/50Hz(60Hz)					380-415V/3N/50Hz(60Hz)			
Electric shock proof grade			ClassI								
Protection grade			IPX4								
Space Heating	Rated heating capacity [KW]	A7/6℃ W30/35℃	1.71~6.06	2.20~8.85	4.02~12.0	4.75~16.3	6.16~19.6	6.85~22.5	9.5~32.3	12.3~39.1	13.5~43.5
	Rated Input power [KW]		0.29~1.34	0.37~1.98	0.68~2.88	0.80~3.96	1.04~4.75	1.16~5.47	1.6~7.91	2.08~9.5	2.29~10.61
	COP		5.90~4.52	5.94~4.47	5.91~4.12	5.94~4.12	5.92~4.11	5.90~4.11	5.94~4.10	5.91~4.12	5.90~4.10
Space Heating	Rated heating capacity [KW]	A7/6℃ W50/55℃	1.10~5.29	1.76~7.83	3.33~10.18	3.98~13.58	3.35~16.49	6.01~19.34	7.96~27.16	6.8~32.97	11.98~38.65
	Rated Input power [KW]		0.26~1.70	0.42~2.56	0.82~3.51	1.04~4.51	0.88~5.4	1.59~6.38	2.1~9.1	1.76~10.8	3.18~12.76
	COP		4.23~3.11	4.19~3.06	4.06~2.90	3.83~3.01	3.81~3.05	3.78~3.03	3.8~3.0	3.86~3.05	3.76~3.03
Space Cooling	Rated cooling capacity [KW]	A35/24℃ W12/7℃	0.99~4.86	1.41~7.17	2.39~8.0	2.75~12.7	3.24~15	6.2~19.36	5.5~25.3	9.5~30.1	12.38~38.7
	Rated Input power [KW]		0.22~1.76	0.32~2.67	0.55~3.0	0.61~4.98	0.75~5.98	1.44~7.8	1.23~9.96	3.08~11.14	2.88~15.6
	COP		4.50~2.76	4.40~2.68	4.35~2.67	4.48~2.55	4.32~2.51	4.30~2.48	4.47~2.54	3.08~2.7	4.29~2.48
Hot Water	Rated heating capacity [KW]	A20/15℃ W15/55℃	8.0	10.1	12.1	17.6	21	23	36	42	45.6
	Rated Input power [KW]		1.73	2.18	2.63	3.8	4.56	5.0	7.8	9.1	9.9
	COP		4.65	4.63	4.61	4.62	4.6	4.6	4.62	4.62	4.6
Max.working current [A]			9.8	14.6	20.5	34	41	12.86	20.1	23.3	26.8
Heat outlet temperature range [℃]			30~60								
Water flow [m³/h]			1.3	1.7	2.1	2.8	3.4	4.0	6.2	7.2	7.8
Refrigerant type			R410a/R32/R290								
Dimension (W×D×H)		mm	1070×440×803	1070×440×803	1070×440×803	1070×440×1335	1070×440×1335	1207×530×1455	1207×530×1455	1207×530×1455	1207×530×1575
Noise [dB(A)]			42~50	43~52	43~52	44~55	45~56	46~56	47~58	48~60	48~61
Net weight			85	90	95	125	140	180	200	220	245

a: A7W35: environmental dry bulb temperature 7°C, wet bulb temperature 6°C, inlet water temperature30°C, outlet water temperature 35°C;
b: A7W55: environmental dry bulb temperature 7°C, wet bulb temperature 6°C, inlet water temperature 50°C, outlet water temperature 55°C;
c: A35W7: environmental dry bulb temperature 35°C, wet bulb temperature 24°C, inlet water temperature 12°C, outlet water temperature 7°C;
d: A20W55: environmental dry bulb temperature 20°C, wet bulb temperature15°C, inlet water temperature 15°C, outlet water temperature 55°C;
Due to product improvement, above datas are subject to change without prior notice, please take the nameplate as standard.

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