



R290 MONOBLOC AIR TO WATER HEAT PUMP



Operation
Temperature
-25-48°C



Outlet Water
Temperature
5-80°C



Average Climate
up to A+++ at 35°C



A7W35
COP up to 5.0



Smart Life
App Easy Use

R290 MONOBLOC AIR TO WATER HEAT PUMP



FEATURES

One Unit, Five Applications

Heating, cooling, domestic hot water
Additionally, heating & domestic hot water
or cooling & domestic hot water

Wide-Temperature Adaptation

Ambient Temp: -25~48°C
Outlet Water Temp: 5~80°C

DC Inverter Technology

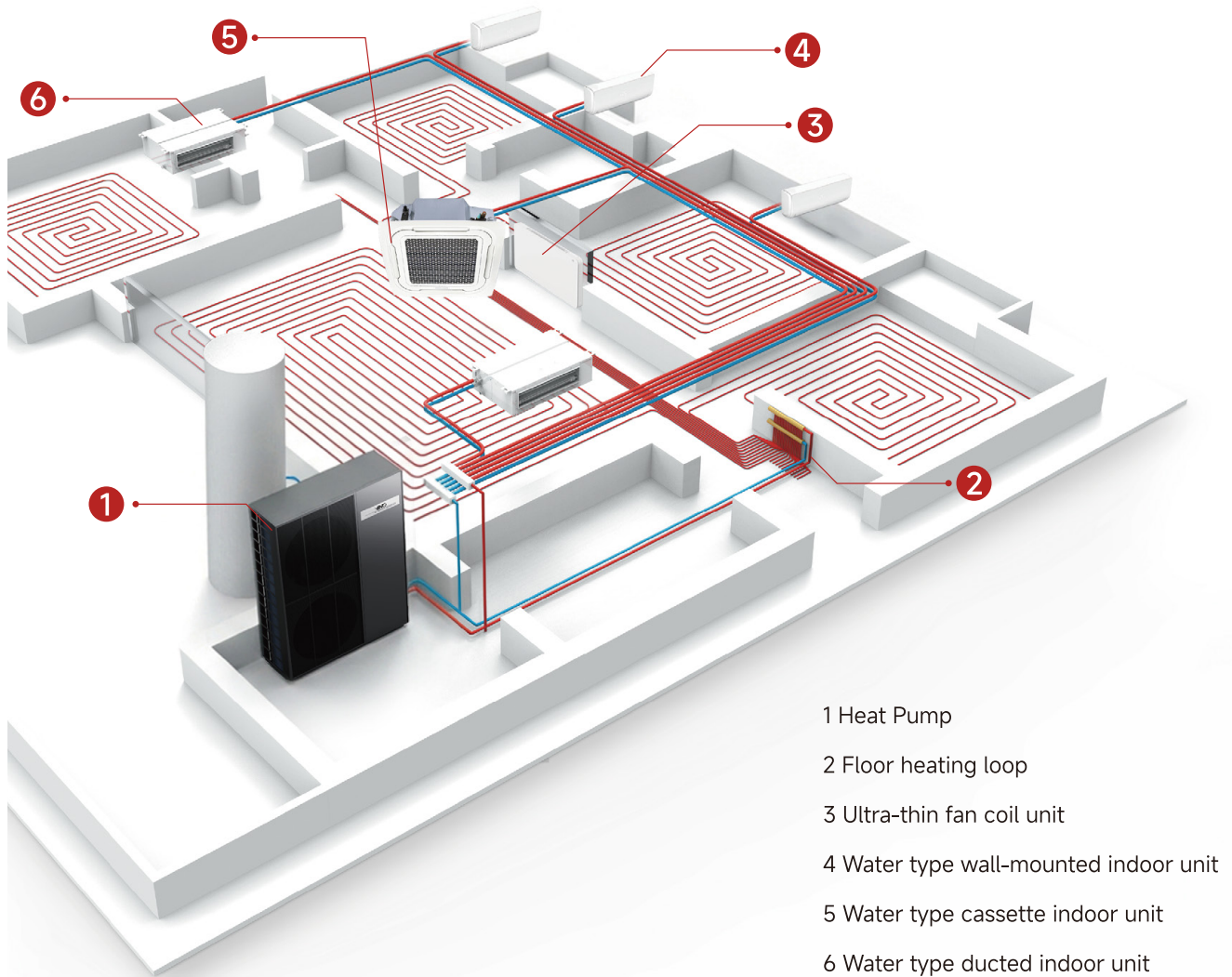
Inverter compressors and proprietary
inverter drive, control technology for
precision temperature control

Eco-Friendly & Energy Efficient

Featuring R290 Eco Refrigerants
ERP A+++

ONE-STOP SOLUTION FOR YOUR HOME

Beyond conventional systems that our EU Air-to-Water Heat Pump integrates heating, cooling, and hot water with exceptional energy efficiency and enhanced comfort. Replacing traditional (AC + boiler + water heater) sets up, it pioneers a new era of whole-home energy conservation, comfort, health, and intelligent living.



AVAILABLE WATER TYPE INDOOR UNIT



**Ultra Thin
Fan Coil Unit**



**Wall Mounted
Indoor Unit**



**Water Type Cassette
Indoor Unit**

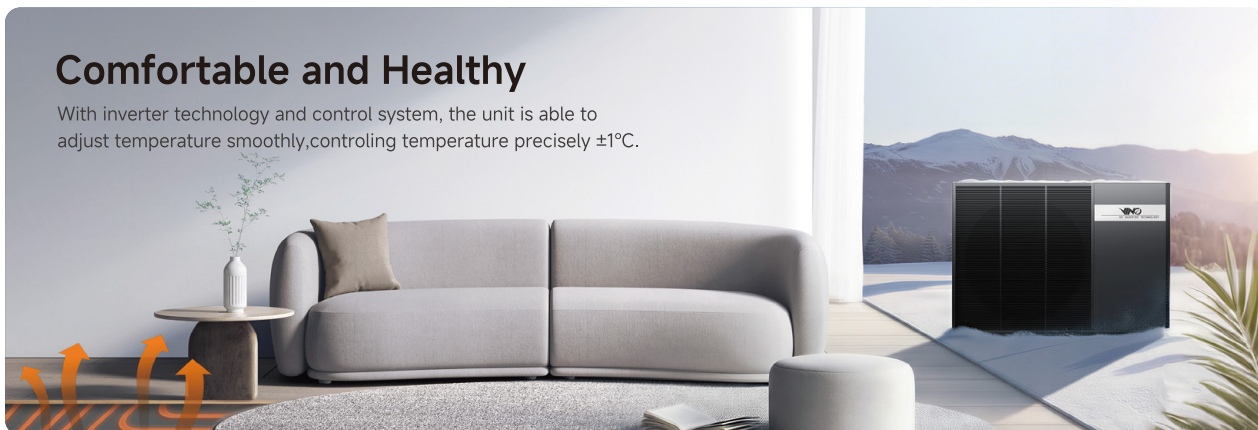


**Water Type Ducted
Indoor Unit**

INTELLIGENT FUNCTIONS

Comfortable and Healthy

With inverter technology and control system, the unit is able to adjust temperature smoothly, controlling temperature precisely $\pm 1^{\circ}\text{C}$.



Intelligent Defrosting

Defrosting based on real needs instead of operating on setting patterns, reducing defrosting time and heating lost, increasing heating efficiency.



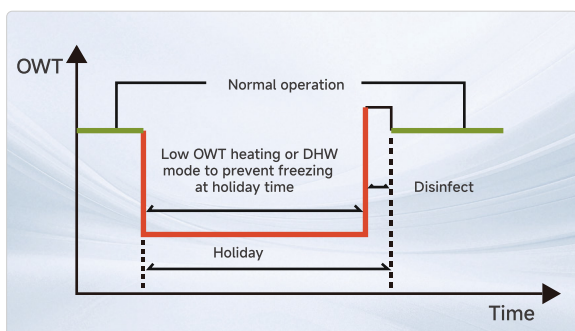
Power off Memory Function

Automatically restores the last operating status after a power outage, eliminating the need for manual resetting.



Holiday Away Function

Maintains low temperature in heating or hot water mode to prevent energy waste and freezing.



Weather Dependent functions

Reset automatically according to the changes of the ambient temperature.



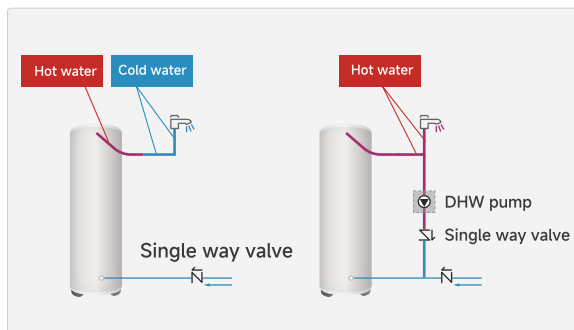
Quiet Mode

Dual quiet modes for low-noise operation of the unit.



Water Return Control

Producing hot water without waiting a long time.



CORE COMPONENTS



DC Inverter Compressor

Twin eccentric cams, highly robust bearings, Insulation grade E, Six poles
More balanced and more stable, high efficiency



DC Inverter Fan Motor

Low noise operation,
More high efficiency



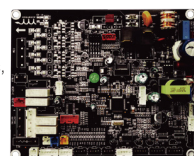
DC Variable Speed Water Pump

Variable water flow control,
Reduce power consumption,
More high efficiency



485 Communication

Standardized Communication Modbus,
Equipped with self-developed DC inverter controller



High-Efficiency Plate Heat Exchanger

Top-brand plate heat exchanger for higher efficiency and quality



Electronic Expansion Valve

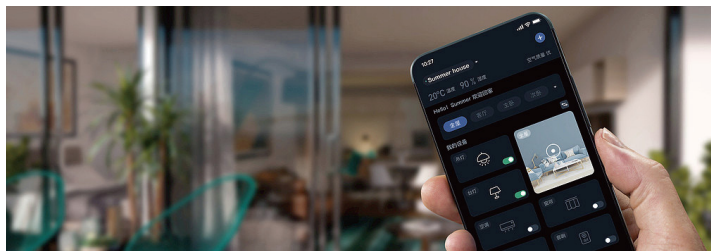
Special valve for heat pumps, precisely controls refrigerant flow and pressure for efficient heating, cooling, and water heating across different temperatures

SMART CONTROL



Wired Controller

All modes and functions are selectable via the display with no delay and quick response, enhancing user experience.



App Control

Control the unit remotely through the app and adjust settings freely.



IoT Management

Malfunctions are reported in advance to our experts for straightforward maintenance, saving time and costs.

TECHNICAL DATA

R290 MONOBLOC AIR TO WATER HEAT PUMP

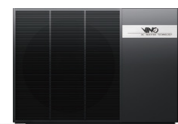
■ Three Phase



Model, VAW-V***E5C(U)			120	150	260	300
Power Supply		Vac/Ph/Hz	380~415/3/50			
Performance Condition: Outdoor air 7°C DB/ 6°C WB, Inlet / Outlet water 30°C / 35°C						
Heating Capacity		kW	12.0	15.0	26.0	30.0
Heating Power Input		kW	2.40	3.31	5.44	6.64
COP		W/W	5.00	4.53	4.78	4.52
Performance Condition: Outdoor air 7°C DB/ 6°C WB, Inlet / Outlet water 40°C / 45°C						
Heating Capacity		kW	12.0	15.0	26.0	30.0
Heating Power Input		kW	3.08	4.10	6.80	8.23
COP		W/W	3.90	3.66	3.82	3.65
Performance Condition: Outdoor air 7°C DB/ 6°C WB, Inlet / Outlet water 47°C / 55°C						
Heating Capacity		kW	12.0	15.0	26.0	30.0
Heating Power Input		kW	3.70	4.89	7.93	9.56
COP		W/W	3.24	3.07	3.28	3.14
Performance Condition: Outdoor air 35°C DB, Inlet / Outlet water23°C / 18°C						
Cooling Capacity		kW	12.0	15.0	26.0	30.0
Cooling Power Input		kW	2.55	3.49	5.55	6.75
EER		W/W	4.71	4.30	4.68	4.44
Performance Condition: Outdoor air 35°C DB, Inlet / Outlet water12°C / 7°C						
Cooling Capacity		kW	11.9	14.1	25.0	29.0
Cooling Power Input		kW	3.78	4.67	8.10	10.30
EER		W/W	3.15	3.02	3.09	2.82
ErP	Energy class-Heating, (35°C/55°C)	class	A+++/A+++	A+++/A++	A+++/A+++	A+++/A++
	SCOP, (35°C/55°C)	/	5.00/3.85	4.89/3.73	4.99/3.85	4.93/3.75
	ηs, (35°C/55°C)	%	197.0/151.1	192.4/146.3	196.7/150.9	194.3/147.0
	P designh (P rated), (35°C/55°C)	kW	12.0/12.0	15.0/14.0	26.0/25.0	30.0/28.0
Maximum Power Input (Without Auxiliary Electric Heater)		kW	6.6	7.3	15.2	16.5
Auxiliary Electric Heater (optional)		kW	6	6	6	6
Sound Power Level		dB (A)	56	59	65	68
Outdoor Ambient Temp. range		°C	-25~+48			
Water Temp.Range (Heating)		°C	+22~+80			
Water Temp. Range (Cooling)		°C	+5~+25			
Water Temp. Range (DHW)		°C	+35~+70			
Unit External Dimensions, W×H×D		mm	1323×935×528		1385×1835×560	
Package Dimensions, W×H×D		mm	1415×1130×565		1445×2020×565	
Net Weight		kg	173	173	289	289
Gross Weight		kg	197	197	314	314

Note: The data above is only a reference. For model specifications, please refer to the nameplate on the unit.

■ Single Phase



Model, VAW-V***A5C(U)			60	80	100	120	150
Power Supply		Vac/Ph/Hz	220-240/1/50				
Performance Condition: Outdoor air 7°C DB/ 6°C WB, Inlet / Outlet water 30°C / 35°C							
Heating Capacity		kW	6.2	8.1	10.0	12.0	15.0
Heating Power Input		kW	1.23	1.62	2.12	2.40	3.31
COP		W/W	5.04	5.00	4.72	5.00	4.53
Performance Condition: Outdoor air 7°C DB/ 6°C WB, Inlet / Outlet water 40°C / 45°C							
Heating Capacity		kW	6.2	8.1	10.0	12.0	15.0
Heating Power Input		kW	1.60	2.08	2.67	3.08	4.10
COP		W/W	3.88	3.90	3.75	3.90	3.66
Performance Condition: Outdoor air 7°C DB/ 6°C WB, Inlet / Outlet water 47°C / 55°C							
Heating Capacity		kW	6.2	7.8	9.8	12.0	15.0
Heating Power Input		kW	1.87	2.37	3.05	3.70	4.89
COP		W/W	3.32	3.30	3.21	3.24	3.07
Performance Condition: Outdoor air 35°C DB, Inlet / Outlet water23°C / 18°C							
Cooling Capacity		kW	6.2	8.0	9.8	12.0	15.0
Cooling Power Input		kW	1.24	1.63	2.13	2.55	3.49
EER		W/W	5.00	4.91	4.60	4.71	4.30
Performance Condition: Outdoor air 35°C DB, Inlet / Outlet water12°C / 7°C							
Cooling Capacity		kW	6.0	7.6	9.0	11.9	14.1
Cooling Power Input		kW	1.85	2.39	2.98	3.78	4.67
EER		W/W	3.24	3.18	3.02	3.15	3.02
ErP	Energy class-Heating, (35°C/55°C)	class	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A++
	SCOP, (35°C/55°C)	/	5.07/3.87	5.03/3.86	4.98/3.84	5.00/3.85	4.89/3.73
	ηs, (35°C/55°C)	%	199.6/151.9	198.3/151.5	196.3/150.7	196.8/151.0	192.5/146.3
	P designh (P rated), (35°C/55°C)	kW	6.0/6.0	8.0/8.0	9.0/9.0	12.0/12.0	15.0/14.0
Maximum Power Input (without Auxiliary Electric Heater)		kW	3.68	4.56	5.04	6.67	7.36
Auxiliary Electric Heater (Optional)		kW	3	3	3	3	3
Sound Power Level		dB (A)	52	54	55	56	59
Outdoor Ambient Temp. range		°C	-25~+48				
Water Temp.Range (Heating)		°C	+22~+80				
Water Temp. Range (Cooling)		°C	+5~+25				
Water Temp. Range (DHW)		°C	+35~+70				
Unit External Dimensions, W×H×D		mm	1323×935×528				
Package Dimensions, W×H×D		mm	1415×1130×565				
Net Weight		kg	98	134	134	170	170
Gross Weight		kg	120	158	158	194	194

Note: The data above is only a reference. For model specifications, please refer to the nameplate on the unit.



SAMYOU | VINO

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