

EVI Low Ambient Heat Pump

Solutions to Heating, Cooling & Sanitary Hot Water



Blueway EVI Low Ambient Heat Pump has normal ambient & low ambient type, including split & monoblock type, which can provide air conditioning, heating and hot water for families, apartments, small industrial sites, etc. Its core philosophy is to solve users' house heating during winter and cooling during summer, as well as domestic hot water. Additionally, it can work with solar, boiler or electric heater according to the practical condition of the heating system. For low ambient type, it can stably work under ambient temperature down -35°C. Some models have gotten ErP A++ from TUV.



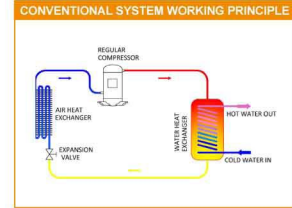
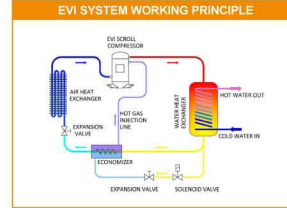
Features & Highlights



- Extended working range down to -35°C ambient (low ambient type)
- 5 modes: heating only, heating+DHW, cooling only, cooling+hot water, DHW only
- Low running costs and high efficiency
- Long-life and corrosion resistant composite cabinet stands up to severe climates
- Famous compressor ensures outstanding performance and durability
- LCD Touch screen with self-diagnostic control function
- With control output for three-way valve
- Easy operation and simple installation
- WIFI control function is optional

Key Components

Comparison (EVI System & Conventional System)



Intelligent Control



The units are supplied with micro processor based digital controller with LCD touch display. The controller is programmed to provide a maximum protection to the heat pump system and accurate temperature control. The control panel is completely factory wired with all accessories and terminals included.

Plate Heat Exchanger

- High corrosion resistance
- High thermal efficiency
- High working temperature



High Efficiency Compressor

- High efficiency and energy saving
- Quiet operation due to less moving parts
- Adopt famous brand rotary or scroll compressor

High Efficiency Class A Pump

Energy saving pump with constant volume or pressure adjustment function. German Wilo or Chinese Shinoo water pump is optional.



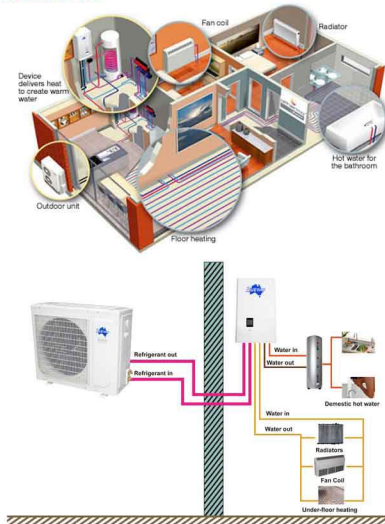
Split Type



Features & Highlights

- No water freezing problem with split design (water system inside the house)
- The outdoor unit is designed for anti-snow
- The indoor unit is designed for substituting traditional boilers easily, with luxurious facade

Applications



Monoblock Type

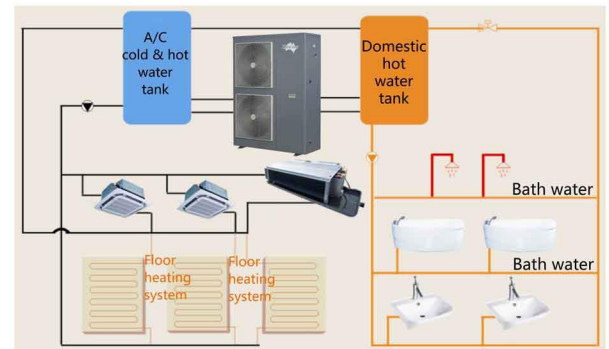


Features & Highlights

- With classic leisure product appearance
- Compact, weather-resistant and easy to install
- All in one system to save installation space & time
- Option: built-in water pump, expansion tank & electric heater
- R32 or R410a is optional

Applications

The Installation Diagram





(On/Off Type)

Technical Specifications

EVI Low Ambient Heat Pump - Split

Model			EHP-09S	EHP-13S	EHP-17S	EHP-17S	EHP-22S	EHP-28S
HP			3	5	6	6	8	10
Power supply	Indoor unit	V/Ph/Hz	220-240/50/1, 380-415/50/3					
	Outdoor unit	V/Ph/Hz	220-240/50/1, 380-415/50/3					
+7°C/35°C Floor heating	Heating capacity	kW/h	9.5	14.0	17.0	17.0	22	28.5
	Power input	kW	2.6	3.4	4.1	4.0	5.1	7
+2°C/35°C Floor heating	Heating capacity	kW/h	8.5	12.3	15	15	19.5	26
	Power input	kW	2.5	3.2	3.9	3.9	5.0	6.9
-7°C/35°C Floor heating	Heating capacity	kW/h	6.8	10.6	12.5	12.5	16.5	22
	Power input	kW	2.3	3.6	4.3	4.2	5.7	7.7
+7°C/45°C Radiators	Heating capacity	kW/h	9	13	16	16	20.5	25.5
	Power input	kW	2.9	3.9	4.9	4.6	6	8
-12°C/41°C Floor heating	Heating capacity	kW/h	5.8	9	10.5	10.5	13	17
	Power input	kW	2.5	3.8	4.6	4.5	5.6	7.6
+35°C/7°C Fan coil	Cooling capacity	kW/h	6	10	11.8	11.8	20	25
	Power input	kW	2.3	3.6	4.5	4.4	7.4	9.6
Heating operation range	Ambient	°C	-25~25					
	Water side	°C	18~55					
Cooling operation range	Ambient	°C	10~43					
	Water side	°C	7~22					
Domestic hot water operation range	Ambient	°C	-25~25					
	Water side	°C	25~55					
Rated water flow rate		m ³ /h	1.6	2.4	2.9	2.9	3.8	4.9
Rated pressure drop		kPa	30	40	45	45	45	40
Max. working pressure	Refrigerant	Bar	44	44	44	44	44	44
	Water	Bar	7	7	7	7	7	7
Controller	Micro processor based digital wire controller with LCD display							
External cabinet	Galvanized steel with powder coating							
	Type	Rotary		Scroll				
Compressor	Qty	Nos.	1	1	1	1	1	1
	Refrigerant	R410a						
Water heat exchanger	SUS 316 Braze plate heat exchanger							
Electric heater		kW	3/6		6			
Water pump			5	8	8	8	8	10
Expansion tank	Wilo/Shinwoo							
Water connection	Inlet&Outlet	inch	1"	1"	1"	1"	1"	1-1/4"
Noise level	Indoor Unit	dB(A)	42	42	42	42	42	42
	Outdoor Unit	dB(A)	52	53	55	55	55	56
Net dimension (W*D*H)	Indoor Unit	mm	522*296*863.5	522*296*863.5	522*296*863.5	522*296*863.5	522*296*863.5	602*308*880
	Outdoor Unit	mm	950*445*800	976*410*1273	940*448*1365	940*448*1365	1150*480*1565	1405*590*1626
Net weight	Indoor Unit	kg	50	50	50	50	50	70
	Outdoor Unit	kg	55	80	90	90	110	165

Notes:

- The values of heating (cooling) capacity/power input/COP (EER) are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temp. & controller adjustments, may cause disparities between practically determined and these values; 2.Sound pressure level measured at distance of 1m from the device;
- For wall-mounted type, the compressor is located in the outdoor unit.
- Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.



(On/Off Type)

Technical Specifications

EVI Low Ambient Heat Pump - Monoblock

Model			EHP-09M	EHP-13M	EHP-17M	EHP-17M	EHP-22M	EHP-28M	
HP			3	5	6	6	8	10	
Power supply	V/Ph/Hz		220-240/1/50				380-415/3/50		
+7°C/35°C Floor heating	Heating capacity	kW/h	9.5	14.0	17.0	17.0	22	28.5	
	Power input	kW	2.6	3.4	4.1	4.0	5.1	7	
+2°C/35°C Floor heating	Heating capacity	kW/h	8.5	12.3	15	15	19.5	26	
	Power input	kW	2.5	3.2	3.9	3.9	5.0	6.9	
-7°C/35°C Floor heating	Heating capacity	kW/h	6.8	10.6	12.5	12.5	16.5	22	
	Power input	kW	2.3	3.6	4.3	4.2	5.7	7.7	
+7°C/45°C Radiators	Heating capacity	kW/h	9	13	16	16	20.5	25.5	
	Power input	kW	2.9	3.9	4.9	4.6	6	8	
-12°C/41°C Floor heating	Heating capacity	kW/h	5.8	9	10.5	10.5	13	17	
	Power input	kW	2.5	3.8	4.6	4.5	5.6	7.6	
+35°C/7°C Fan coil	Cooling capacity	kW/h	6	10	11.8	11.8	20	25	
	Power input	kW	2.3	3.6	4.5	4.4	7.4	9.6	
Heating operation range	Ambient	°C	-25~25						
	Water side	°C	18~55						
Cooling operation range	Ambient	°C	10~43						
	Water side	°C	7~22						
Domestic hot water operation range	Ambient	°C	-25~25						
	Water side	°C	25~55						
Rated water flow rate		m ³ /h	1.6	2.4	2.9	2.9	3.8	4.9	
Rated pressure drop		kPa	30	40	45	45	45	40	
Max. working pressure	Refrigerant	Bar	44	44	44	44	44	44	
	Water	Bar	7	7	7	7	7	7	
Controller	Micro processor based digital wire controller with LCD display								
External cabinet	Galvanized steel with powder coating								
	Type	Rotary		Scroll					
Compressor	Qty	Nos.	1	1	1	1	1	1	
	Refrigerant	R410a							
Water heat exchanger	Braze plate heat exchanger								
Electric heater (optional)		kW	3/6		6				
Water pump (optional)			5	8	8	8	8	10	
Expansion tank (optional)	Wilo/Shinwoo								
Water connection	Inlet&Outlet	inch	1"	1"	1"	1"	1"	1-1/4"	
Noise level	Indoor Unit	dB(A)	52	53	55	55	55	58	
	Outdoor Unit	dB(A)	52	53	55	55	55	56	
Net dimension (W*D*H)	Indoor Unit	mm	522*296*863.5	522*296*863.5	522*296*863.5	522*296*863.5	522*296*863.5	602*308*880	
	Outdoor Unit	mm	950*445*800	976*410*1273	940*448*1365	940*448*1365	1150*480*1565	1405*590*1626	
Net weight	Indoor Unit	kg	50	50	50	50	50	70	
	Outdoor Unit	kg	55	80	90	90	110	165	

Notes:

- The values of heating (cooling) capacity/power input/COP (EER) are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temp. & controller adjustments, may cause disparities between practically determined and these values; 2.Sound pressure level measured at distance of 1m from the device;
- If local ambient temperature will be below 0°C in winter, please use an approved antifreeze solution.
- Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.