



Blueway offers inverter type and constant type air to water heat pump of space heater (split/ Monobloc) and combination heaters (split DHW integrated).

The heat pump is able to retrieve heat from the air down to -25 °C outdoor temperature, its core philosophy is to solve user's home heating during winter and cooling during summer, as well as domestic hot water.It can work with solar, boiler or electric heater according to practical condition of the heating system.

# Features





















- Extended working range down to -25°C ambient
- High COP at low ambient temperature (up to 2.5 even at -15°C ambient)
- EVI or compressor (constant type); DC inventer compressor (Inventer type)
- Using electronic expansion valve, achieving accurate, stable and high efficiency throttling
- Stainless steel plate heat exchanger as condenser
- Intelligent LCD touch key wire controller
- Four-way valve for automatic defrosting (cooling function optional)
- Built in water pump
- · Bottom heater included
- Built in electric heating element
- 5 modes: heating only, heating+hot water, hot water only, cooling only, cooling+hot water
- With control output for three-way valve



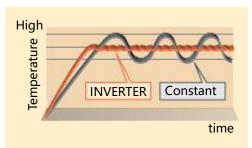
# High energy saving and High power technology



Accurate temperature control by DC inverter technology

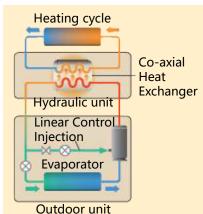
Blue drive inverter technology





### TWIN ROTARY COMPRESSOR with Linear Control Injection port

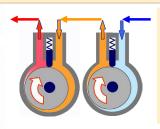




It realizes the high condensing temperature without overheating discharge gas temperature by Linear Control Injection process during

compression.

Therefore, the condensing temperature rises up higher than normal circuit. A higher hot water temperature is realized by controlling the injection amount according to the usage state.



Two-stage Enthalpy-increasing Compressor Technology (Only for some DC inverter and constant model)

- Such compressor is with high volume efficiency and low leakage volume, which is more obvious as the increase of pressure ratio.
- Increase heating capacity in low-temp. environment and cooling capacity in high-temp, environment by vapor-injected method.

# High durability





Plate Heat Exchanger
High efficiency more compact





High Efficiency Class A Pump Energy saving pump with constant volume or pressure adjustment function

## SPLIT TYPE

BLUEWAY Split Type Air to Water Heat Pump has an outdoor unit and an indoor unit. The compressor is located in the outdoor unit and the hydronic components are located in the indoor unit. It supply heating, cooling and domestic hot water.





Free Standing Indoor Unit



Wall Mounted **Indoor Unit** 

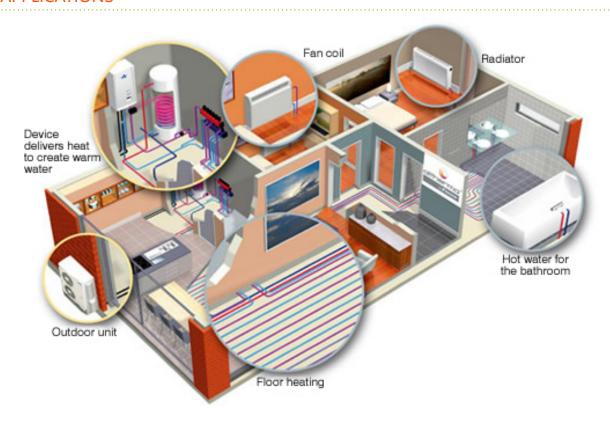


**Outdoor Unit** 

### **FEATURES**

- 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 façade

#### **APPLICATIONS**





### **INDOOR UNIT**



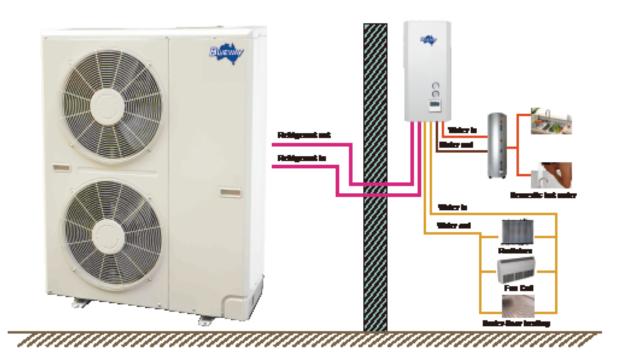
- Sus 316 of brazed plate heat exchanger
- Motorized 3-way valve(optional)
- Circulation water pump
- Expansion vessel
- Buffer tank with electric back up heater element
- safety valve
- Air purge valve
- Full sealed control box with water proof level IPX5
- Intelligent user interface
- Water pressure guage
- Rerigerant pressure guage
- Flow switch for water flow protection
- Base frame and external frame made of powder coadted steel





#### **Standard Unit Composition**

- Inverter or constant compressor with crankcase heater and thermal protection
- Eco-friendly high efficiency R410A refrigerant
- Air heat exchanger made of inner grooved copper tubes and blue hydraulic coated alluminum fins, for high efficiency and corrosion resistance
- Factory wired ambient air temperature sensor
- Heavy guage galvanized steel cabient with epoxy powder painting for long lasting outdoor life span
- Electric expansion valve
- Air purge valve
- Automatic intelligent defrosting
- Bottom plate heater to keep the base free of ice and the drain holes open
- High pressure and low pressure protection



## **EVI Low Ambint Heat Pump - Split**

EVI LOW AITIDITE HEAT PUTTY - SPITE											
	Model HP	1	EHP-10S	EHP-13S	EHP-16S	EHP-22S	EHP-30S				
Pow	<del>нР</del> /er supply	V/Ph/Hz	4	5	6 380-415V/3Ph/	8 50Hz	10				
	Heating capacity	kW/h	10.3	13.2	16.5	22.3	30.5				
A7/W35℃	Power input	kW	2.58	3.38	4.23	5.87	7.44				
Ai/W35 C	Running current	Α	4.6	6.1	7.6	10.5	13.3				
	СОР	-	4.0	3.9	3.9	3.8	4.1				
	Heating capacity	kW/h	10.1	12.9	16.2	21.9	29.3				
A7/W45°C	Power input	kW	3.06	4.03	5.10	6.94	8.88				
A7/W43 C	Running current	Α	5.5	7.2	9.1	12.4	15.9				
	СОР	-	3.30	3.21	3.17	3.15	3.30				
	Cooling capacity	kW/h	7.9	10.0	12.5	16.4	21.5				
A35/W7℃	Power input	kW	2.81	3.56	4.53	5.96	7.68				
7.55, 117	Running current	Α	5.0	6.4	8.1	10.7	13.7				
	EER	-	2.80	2.80	2.75	2.75	2.80				
Energy Effici	ency Class at 35°C		A++	A++	A++	A++	A++				
Energy Efficiency Class at 55°C			A++	A++	A++	A++	A++				
Noise level		DB(A)	60	64	65	65	65				
Rated outlet water temp.		°C	55								
Max outlet water temp.		℃	60								
Ambient temperature range		℃	-20~43								
Rated w	ater flow rate	L/S	0.49	0.63	0.79	1.07	1.46				
Rated p	oressure drop	kPa	50	50	50	50	50				
Max. Working	Refrigerant	Bar	44	44	44	44	44				
Pressure	Water	Bar	7	7	7	7	7				
Water	Water connection ø		28	28	28	28	32				
Co	ontroller	-	Micro processor based digital wire controller with LCD display								
Exter	nal cabinet	-	Galvanized steel with powder coating								
	Make	-		Copeland/Hitachi Danfos							
Compressor	Туре	-	EVI Scroll								
	Nos.	-	1	1	1 R410A	1					
	Refrigerant	-									
Water heat	Туре	-	Brazed plate heat exchanger								
exchanger	Materials	-			SUS 316						
Built in electric heater		-	optional	optional	optional	optional	optional				
Built in four-way valve		-	yes	yes	yes	yes	yes				
Built in pump		-	Wilo/Xinhu	Wilo/Xinhu	Wilo/Xinhu	Wilo/Xinhu	Wilo/Xinhu				
	Indoor Unit (Free Standing Type)	mm	660*650*1150	660*650*1150	660*650*1150	1200×650×1150	1200×650×1150				
Dimension (W*D*H)	Indoor Unit (Wall Mounted Type)	mm	1020*455*330	1020*455*330	1020*455*330	1020*455*330	1020*455*330				
	Outdoor Unit	mm	970*450*830	970*400*1260	970*400*1260	1105×515×1500	1105×515×1500				

Note:

For free standing type, the compressor is located in the indoor unit; while for wall mounted type, the compressor is located in the outdoor unit.

### **DC Inverter Heat Pump - Split**

Power tappy	Model		DHP-09S	DHP-12S	DHP-15S	DHP-15ST	DHP-18S	DHP-24S	DHP-30S		
Heating capacity   Works   Part	НР		3	4	5	5	6	8	10		
Professional Pr	Power supply V/Ph/Hz		200-240V/1Ph/50Hz								
Profess   Pro		Heating capacity	kW/h	9	12.0	15.0	15.0	18.0	24.0	30.0	
COP											
Heating capacity   Work   Gal			-								
Power input   Note			kW/h								
CCP											
Cooling capacity   With   G	floor heating	<u>'</u>				-				-	
Prover input   Feet											
REFR   -	-7°C /35°C										
Healing capacity	floor heating										
Power input   NV   2.4   3.30   4.00   4.00   4.80   6.30   6.20   3.10   3.											
COP   - 3.2   3.10   3.30   3.30   3.20   3.30   3.10   3.10   3.30   3.20   3.30   3.10	+7°C /45°C										
Heating capacity   Flower input   NW   3.4   5.00   6.20   6.20   7.20   9.80   12.60		·	VVV			1				-	
Power input			LAAL II-								
COP   -   22   2.00   2.10   2.10   2.10   2.10   2.00											
Hard   Foundation   Hard	radiators						-			-	
H 35C / 1/2											
Famoush   Famo	2506 (706	Cooling capacity	kW/h	7	10.0	11.8	11.8	14.5	20.0	25.0	
Energy Efficiency Class at 35°C		Power input	kW	2.6	3.60	4.50	4.50	5.80	7.10	10.00	
Energy Efficiency Class at 55°C		EER	-	2.7	2.80	2.60	2.60	2.50	2.80	2.50	
Noise   water   DB(A)   S2   S3   S5   S5   S5   S6   S6   S6	Energy Efficiency Class at 35°C			A++	A++	A++	A++	A++	A++	A++	
Rated outlet water temp.   "C	Energy Efficiency Class at 55°C			A++	A++	A++	A++	A++	A++	A++	
Max outlet water temp.         "C         60           Ambient temptanter ange         "C         -20-43           Rated water fow rate         L/S         0.43         0.57         0.72         0.72         0.86         1.15         1.43           Rated presure drop         kPa         30         40         45         45         45         40         47           Max         Water         Bar         44         45         58         18         11	Noise level		DB(A)	52	53	55	55	55	56	56	
Ambient temperature range	Rated outlet	water temp.	°C				7~55				
Rated water flow rate											
Rated pressure drop         kPa         30         40         45         45         45         40         47           Max. Working Pressure         Refrigerant         Bar         44 </td <td></td> <td></td> <td></td> <td>0.40</td> <td>0.57</td> <td>0.70</td> <td></td> <td>0.05</td> <td>4.45</td> <td>4.02</td>				0.40	0.57	0.70		0.05	4.45	4.02	
Max   Refrigerant   Bar   44   44   44   44   44   44   44											
Water   Water   Water   Bar   7   7   7   7   7   7   7   7   7	Rated pres										
Water connection   Inch   1°   1°   1°   1°   1°   1°   1°   1											
External cabinet   Compressor based digital wire controller with LCD display											
Make			inch	1"	1"					1-1/4"	
Compressor         Make Type         -         Mitsubishi         Hitachi           Nos.         -         1			-	Micro processor based digital wire controller with LCD display							
Type	External	cabinet	-				1				
Nos.   -   1   1   1   1   1   1   1   1   1			-					Hitachi			
Refrigerant			-		ſ	1					
Refrigerant amount   Kg   1.45   1.9   2.5   2.5   2.6   4.2   4.5	Compressor		-	1	1	1	l	1	1	1	
Type   -   Brazed plate heat exchanger			V~	1.45	1.0	2.5		2.6	4.2	4.5	
Water heat exchanger         Materials         SUS 316           Copper pipe Diameter         Gas/Liquid         inch         5/8*/1/4*         5/8*/3/8*         3/4*/3/8*         7/8/*1/2*           Built in electric heater         -         optional		-	Kg	1.45	1.9				4.2	4.5	
Copper pipe Diameter   Gas/Liquid   inch   5/8*/1/4*   5/8*/3/8*   3/4*/3/8*   7/8/*1/2*	Water heat exchanger		-	•							
Built in electric heater         -         optional         optional <thow< th="">         optional         optional</thow<>			inch	5/0"/1/4"		5/8"/2/0"	505 316	3///"/2/0"	7.10.11	11/2"	
Built in four-way valve - yes					ontional	ı	ontional			1	
Built in pump - Wilo/Xinhu  Indoor Unit (Free Standing Type) mm 660*650*1150 660*65					·		·	·		·	
Indoor Unit (Free Standing Type)   mm   660*650*1150   660*650*1150   660*650*1150   660*650*1150   660*650*1150   660*650*1150   660*650*1150   660*650*1250   660*650*1150				yes	yes	yes		yes	yes	yes	
Circle Standing Type   mm	Built in						i				
(W*D*H) (Wall Mounted Type) mm 508*406*947 508*406*947 508*406*947 508*406*947 508*406*947 508*406*1000 508*406*1000	Dimension (W*D*H)	(Free Standing Type)	mm	660*650*1150	660*650*1150	660*650*1150	660*650*1150	660*650*1150	660*650*1250	660×650×1150	
Outdoor Unit mm 970*450*830 935*450*1365 935*450*1365 935*450*1365 935*450*1365 1105×515×1500 1105×515×1500			mm	508*406*947	508*406*947	508*406*947	508*406*947	508*406*947	508*406*1000	508*406*1000	
		Outdoor Unit	mm	970*450*830	935*450*1365	935*450*1365	935*450*1365	935*450*1365	1105×515×1500	1105×515×1500	

#### Note:

<sup>1.</sup>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 temperature and controller adjustments, may cause disparities between practically determined and these values;

<sup>2.</sup> Sound pressure level measured at distance of 1m from the devices;

<sup>3.</sup>For free standing type, the compressor is located in the indoor unit; while for wall mounted type, the compressor is located in the outdoor unit.

# Monobloc type





### **FEATURES**

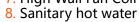
- Compact, weather-resistant and easy to install
- Built in water pump (optional)
- Bottom heater included
- Built in electric heating element

### **APPLICATIONS**

#### NOTE:

- 1. Heat Pump

- 7. High Wall Fan Coil





# **EVI Low Ambient Heat Pump - Monoblock**

	Model		EHP-10M	EHP-13M	EHP-16M	EHP-22M		
	HP r supply	V/Ph/Hz	4   5   6   8 380-415V/3Ph/50Hz					
rowe	Heating capacity		10.3	13.2	16.5	22.3		
A7/W35°C	3 , ,							
	Power input	kW	2.58	3.38	4.23	5.87		
	Running current	Α	4.6	6.1	7.6	10.5		
	СОР	-	4.0	3.9	3.9	3.8		
	Heating capacity	kW/h	10.1	12.9	16.2	21.9		
47.04/4E°C	Power input	kW	3.06	4.03	5.10	6.94		
A7/W45°C	Running current	Α	5.5	7.2	9.1	12.4		
	СОР	-	3.30	3.21	3.17	3.15		
	Heating capacity	kW/h	5.0	6.5	8.1	10.9		
A 15 04/45°C	Power input	kW	2.80	3.68	4.62	6.35		
A-15/W45℃	Running current	Α	5.0	6.6	8.3	11.4		
	СОР	-	1.80	1.76	1.75	1.72		
	ncy Class at 35°C		A++	A++	A++	A++		
	ncy Class at 55°C		A++	A++	A++	A++		
Noise level		DB(A)	60	64	65	65		
Rated outle	et water temp.	°C	55					
	nperature range	°C	-20~43					
	ter flow rate	L/S	0.49	0.63	0.79	1.07		
Rated pr Max.	essure drop	kPa	50	50	50	50		
Working	Refrigerant	Bar	44	44	44	44		
Pressure	Water	Bar	7	7	7	7		
	onnection ø	mm	28	28	28	28		
	ntroller	-	Micro processor based digital wire controller with LCD display					
Extern	al cabinet	-	Galvanized steel with powder coating					
	Make 	-	Copeland/Hitachi  EVI Scroll					
Compressor	Type	-				4		
	Nos.	-	1	1	1	1		
	Refrigerant	-	R410A					
Water heat exchanger		-	Brazed plate heat exchanger SUS 316					
	Materials	-			·	and:		
Built in electric heater		-	optional	optional	optional	optional		
Built in pump  Bottom plate heater		-	optional yes	optional yes	optional yes	optional yes		
Defrost Defrost		-	Hot gas + heating element in evaporator coil					
Dimension (W*D*H)	Outdoor Unit	mm	830*310*1260	970*400*1260	970*400*1260	970*400*1260		

Note: test condition: ambient temp. (DB/WB)=7°C /6°C , inlet/outlet water temp.=30°C /35°C .

### **DC Inverter Heat Pump - Monoblock**

Model		DHP-09M	DHP-12M	DHP-15M	DHP-15MC	DHP-18M	DHP-24M	DHP-30M	
НР		3	4	5	5	6	8	10	
Power supply		V/Ph/Hz	200-240V/1Ph/50Hz			380-415V/3Ph/50Hz			
+7°C /35°C floor heating	Heating capacity	kW/h	9	12.0	15.0	15.0	18.0	24.0	30.0
	Power input	kW	2.1	2.70	3.50	3.40	4.30	5.60	7.30
	COP	-	4.2	4.4	4.3	4.4	4.2	4.3	4.1
	Heating capacity	kW/h	6.8	11.3	12.7	12.7	15.3	21.7	25.6
+2°C /35°C floor heating	Power input	kW	2.1	3.40	3.85	3.80	4.60	6.60	8.20
	СОР	-	3.2	3.30	3.30	3.30	3.30	3.30	3.10
	Cooling capacity	kW/h	6	10.0	11.0	11.0	13.3	18.9	22.3
-7°C /35°C floor heating	Power input	kW	2.4	3.85	4.40	4.40	5.40	7.60	9.20
neer nearing	EER	-	2.5	2.60	2.50	2.50	2.45	2.50	2.40
	Heating capacity	kW/h	7.8	10.3	13.0	13.0	15.3	20.6	25.5
+7°C /45°C radiators	Power input	kW	2.4	3.30	4.00	4.00	4.80	6.30	8.20
	СОР	-	3.2	3.10	3.30	3.30	3.20	3.30	3.10
	Heating capacity	kW/h	7.6	10.1	13.0	13.0	15.2	20.6	25.3
-7°C /45°C radiators	Power input	kW	3.4	5.00	6.20	6.20	7.20	9.80	12.60
	СОР	-	2.2	2.00	2.10	2.10	2.10	2.10	2.00
	Cooling capacity	kW/h	7	10.0	11.8	11.8	14.5	20.0	25.0
+35°C /7°C	Power input	kW	2.6	3.60	4.50	4.50	5.80	7.10	10.00
fan coil	EER	-	2.7	2.80	2.60	2.60	2.50	2.80	2.50
Energy Efficiency Class at 35°C			A++	A++	A++	A++	A++	A++	A++
Energy Efficiency Class at 55°C			A++	A++	A++	A++	A++	A++	A++
Noise		DB(A)	52	53	55	55	55	56	56
Rated outlet v		℃	7~55						
Max outlet w		℃	60						
Ambient tempe	erature range	℃	-20~43						
Rated water flow rate		L/S	0.43	0.57	0.72	0.72	0.86	1.15	1.43
Rated press	sure drop	kPa	30	40	45	45	45	40	47
Max.	Refrigerant	Bar	44	44	44	44	44	44	44
Working Pressure	Water	Bar	7	7	7	7	7	7	7
Water con	nnection	inch	1"	1"	1"	1"	1"	1-1/4"	1-1/4"
Contro	oller	-	Micro processor based digital wire controller with LCD display						
External of	cabinet	-				Galvanized steel w	with powder coating		
	Make	-		Mitsu	ıbishi	Hitachi			
	Туре	-		Rot	tary			Scroll	
Compressor	Nos.	-	1	1	1	1	1	1	1
	Refrigerant					R410A			
	Refrigerant amount	Kg	1.45	1.9	2.5	2.5	2.6	4.2	4.5
Water heat exchanger	Туре	-		Brazed plate heat exchanger					
	Materials	-				SUS 316			
Built in electric heater		KW	optional	optional	optional	optional	optional	optional	optional
Built in four-way valve		-	yes	yes	yes	yes	yes	yes	yes
Built in pump		-				optional			
Dimension (W*D*H)	Outdoor Unit	mm	970*450*830	1105*470*1230	1105*470*1260	1105*470*1230	1105*470*1260	1405×515×1500	1405×515×1500

1. 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 temperature and controller adjustments, may cause disparities between practically determined and these values; 2. Sound pressure level measured at distance of 1m from the devices.



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