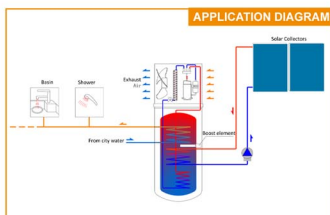
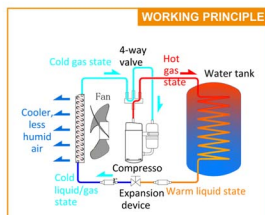


Integrated Hot Water Heat Pump

Applicable for Kitchen & Bathroom Application

Blueway Integrated Hot Water Heat Pump is specially designed for the need of sanitary hot water, applicable for kitchen and bathroom application. It consumes 70~80% less electrical energy than a conventional electric water heater. Tank volume range is from 80L to 300L, horizontal and vertical discharge is optional.

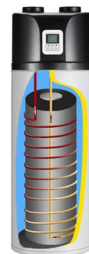


Integrated Hot Water Heat Pump

Technical Specifications

Model		IHP-80	IHP-100	IHP-150	IHP-200	IHP-300
Power Supply	V/Hz/Ph	220-240/50/1, 208-230/60/1				
Hot water performance	Heating capacity	kW/h	2	2	2.8	2.8
	Rated Power input	W	530	530	930	930
	Running current	A	2.9	2.9	4.2	4.2
	Max. current	A	7	7	5.4	5.4
	Hot water production	L/h	43	43	60	60
Tank capacity	Liter	80	100	150	200	300
Ambient temp. range	°C	-5~43				
Rated/Max.outlet water temp.	°C	55/70				
Controller		Digital wire controller with LCD display				
External cabinet		Galvanized steel powder coated				
Compressor	Type	Rotary				
	Brand	GMCC				
	Qty	1				
	Refrigerant	R134a/R410a/R417a				
Rated working pressure of water tank	MPa	0.7				
Max. working pressure of water tank	MPa	1.0				
Max. working pressure of exhaust air	MPa	2.8				
Max. working pressure of suction air	MPa	1.2				
Electric heater	kW	1.5				
Hot gas defrost		Yes				
Magnesium stick		Yes				
Relieve/safety valve		Yes				
Noise level	dB(A)	≤46				
Air discharge		Top discharge				
Net dimension	Dia.*H	mm	φ500*1420	φ500*1420	φ560*1680	φ640*1770
Net weight	kg	60	65	70	79	90

Notes: Hot water performance: ambient temp (26/78) > 20°C/13°C, inlet/outlet water temp. > 15°C/10°C.
Blueway reserves the rights to modify the above specifications without notice for product improvement.
Please contact us for updated information.



Hot Water Application



Chiller Water Application



Domestic Hot Water Heat Pump

Circulating & Instant Type

Circulating type of Domestic Hot Water Heat Pump adopts high efficiency tube-in-shell water heat exchanger and incorporates a built-in water pump for easy installation work. The unit is capable of producing high hot water with a maximum temperature up to 60°C. It can be retrofitted to existing geyser to replace electric water heater, saving more than 2/3 energy.

Instant type of Domestic Hot Water Heat Pump adopts advanced variable flow rate control technology, keeping a constant water temperature in the cold climate and hot climate. Unlike Circulating Models, the outlet water temperature from Instant Models directly reaches the setting temperature. The fast defrosting technology enables the system work well in the low temperature, moist ambient conditions.



Features & Highlights



- ◆ Famous brand high efficiency compressor
- ◆ High efficiency eco-friendly refrigerant, without ozone depletion
- ◆ Built-in circulation water pump
- ◆ Intelligent control: micro processor based digital controller with LCD display
- ◆ Adjustable water temp. setting: 25°C - 60°C
- ◆ Water heat exchanger: tube-in-shell for cycle type, tube-in-tube for direct type
- ◆ Automatic defrosting function included
- ◆ Anti- legionella function on regular intervals
- ◆ Can be retrofitted to existing geyser and used in conjunction with solar geyser
- ◆ On-off & inverter type is optional

Key Components

Water Heat Exchanger

1) High efficiency tube-in-shell heat exchanger for Circulating Heat Pumps

◆ High working pressure

The copper pipe is of 0.8~1.2 mm thickness, no welding inside. With its extraordinary pressure resistance property, the copper pipe is without any leakage under 5Mpa pressure test.

	Working Conditions	
	Refrigerant Side	Water Side
Max. Working Pressure	5.2Mpa	3.2Mpa
Working Temp. Range	-50~150°C	-50~150°C (above freezing point)

- ◆ The internal spiral surface of the copper tube ensures effectiveness of heat exchange and prevents from lubricant accumulation.
- ◆ Grooved external surface of the copper tube increases also the heat transfer area which is 3.7 times of the smooth surface.



2) High efficiency tube-in-tube heat exchanger for Instant Heating Heat Pumps



- ◆ Spiral tube used to increase heat transfer area for high efficiency
- ◆ Specially designed to provide excellent efficiency, reliability, and reduce fouling.

Compressor

- ◆ Famous brand rotary compressor for Domestic Heat Pumps
- ◆ Copeland, Danfoss or Panasonic scroll compressor for Commercial Heat Pumps



Domestic Hot Water Heat Pump (Circulating)

Technical Specifications

Model		DHW-3.5C	DHW-5C	DHW-7C	DHW-10C	DHW-14C	DHW-18C	
Power supply		V/Hz/Ph	220-240/50/1				380-415/50/3	
Heating Performance	Heating capacity	kWh	3.5	5.2	7.2	9.8	14	18
	Power input	kW	0.74	1.05	1.48	2.00	2.97	3.83
	Running current	A	3.3	4.8	6.7	9.1	13.5	6.8
	COP	-	4.75	4.95	4.85	4.91	4.72	4.70
	Hot water production: 15/55℃	L/h	75	112	155	211	301	387
Suggested tank connection (capacity range)		Liter	100-300	150-350	200-500	300-600	400-800	500-1000
Ambient temp. range		℃	-10~43					
Rated/Max.outlet water temp.		℃	55/60					
Rated water flow rate		m³/h	0.60	0.89	1.24	1.69	2.41	3.10
Controller		-	Micro processor based digital wire controller with LCD display					
External cabinet		-	Galvanized steel with powder coating					
Compressor	Type	-	Rotary			Rotary/Scroll	Scroll	
	Qty.	Nos.	1					
	Refrigerant	-	R22/R407c/R417a					
Heat exchanger (water side)		-	High efficiency tube-in-shell					
Bill-in water pump	Brand	-	Wilo/Shinwoo					
Water connection		Inlet&Outlet	inch	3/4"	3/4"	3/4"	3/4"	1-1/4"
Noise level		dB(A)	52	52	52	55	55	55
Net dimension (W*D*H)		mm	770*300*490	930*280*580	1000*300*650	1000*300*650	750*340*1240	900*420*1390
Net weight		kg	38	50	59	65	95	140

The above data is based on the following testing condition: ambient temp.(DB/WB) = 20°C/15°C, inlet/outlet water temp. = 15°C/55°C.
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

Domestic Hot Water Heat Pump (Instant)

Technical Specifications

Model			DHW-3.5I	DHW-5I	DHW-7I	DHW-10I	DHW-14I	DHW-18I
Power supply		V/Hz/Ph	220-240/50/1					380-415/50/3
Heating Performance	Heating capacity	kWh	3.5	5.2	7.2	9.8	14	18
	Power input	kW	0.80	1.18	1.63	2.24	3.18	4.12
	Running current	A	3.6	5.4	7.4	10.2	14.5	7.4
	COP	-	4.39	4.41	4.42	4.38	4.40	4.37
	Hot water production: 15/55℃	L/h	75	112	155	211	301	387
Suggested tank connection (capacity range)		Liter	100-300	150-350	200-500	300-600	400-800	500-1000
Ambient temp. range		℃	-10~43					
Rated/Max outlet water temp.		℃	55/60					
Rated water flow rate		m³/h	0.60	0.89	1.24	1.69	2.41	3.10
Controller		-	Micro processor based digital wire controller with LCD display					
External cabinet		-	Galvanized steel with powder coating					
Compressor	Type	-	Rotary				Rotary/Scroll	Scroll
	Qty.	Nos.	1					
	Refrigerant	-	R22/R407c/R417a					
Heat exchanger (water side)		-	High efficiency tube-in-tube					
Bill-in water pump		Brand	-	Wilo/Shinwoo				
Water connection		Inlet&Outlet	inch	3/4"	3/4"	3/4"	3/4"	1-1/4"
Noise level		dB(A)	52	52	52	55	55	55
Net dimension (W*D*H)		mm	930*280*580	930*280*580	1000*300*650	1000*300*650	750*340*1240	900*420*1390
Net weight		kg	40	50	59	65	95	140

The above data is based on the following testing condition: ambient temp.(DB/WB) = 20°C/15°C, inlet/outlet water temp. = 15°C/55°C.
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.



Commercial Hot Water Heat Pump

Cycle Heating & Direct Heating Type



Blueway Commercial Hot Water Heat Pump is designed to offer hot water for commercial and (or) industrial application. In order to achieve the required water temperature, large heat pump units apply unique "V" style evaporator design, which enlarges the heat exchange surface and increases efficiency.

Features & Highlights



- ◆ World famous scroll compressor for reliability and superior performance
- ◆ High efficiency eco-friendly refrigerant, without ozone depletion
- ◆ Intelligent control: micro processor based digital controller with LCD display
- ◆ Water heat exchanger: tube-in- shell for cycle type, tube-in-tube for direct type
- ◆ Heavy gauge galvanized steel cabinet with epoxy powder coating, weather resistant for long lasting outdoor life span
- ◆ Adjustable water temperature setting: 25°C -60°C

Options:

- ◆ Circulating Heating / Instant Heating
- ◆ Electrical boosting element



Enjoy comfortable life with



Enjoy comfortable life with



Commercial Heat Pump (Circulating)

Technical Specifications

Model		CHW-08SC	CHW-08SC	CHW-08TC	CHW-01SC	CHW-01SC	CHW-01SC	CHW-08SC	CHW-08SC	CHW-08SC	CHW-08SC	CHW-08SC	CHW-08SC	CHW-08SC	
HP		5	6	7	10	12	15	18	20	25	30	40	50		
Power supply		V/Hz/Ph 380-415/50/3													
Heating Performance	Heating capacity	kWh	18	21	24.6	36.0	42	49	60	74	90	100	148	180	
	Power input	kW	4.30	4.90	5.65	8.60	9.80	11.80	14.30	17.40	21.00	23.70	35.00	42.00	
	Running current	A	7.7	8.8	10.5	15.4	17.5	21.1	25.6	31.1	37.5	42.4	62.6	75.1	
	COP	-	4.23	4.29	4.21	4.19	4.29	4.15	4.20	4.25	4.23	4.22	4.23	4.29	
	Hot water production 15/55°C	L/h	391	451	529	774	903	1053	1290	1591	1925	2150	3181	3989	
Ambient temp. range		°C	-10~43												
RatedMax.outlet water temp.		°C	55/50												
Rated water flow rate		m³/h	3.13	3.61	4.23	6.19	7.22	8.43	10.32	12.73	15.48	17.20	25.45	30.95	
Rated pressure drop		kPa	50	50	50	50	50	50	50	50	50	50	50	50	
Controller		-	Micro processor based digital wire controller with LCD display												
External cabinet		-	Heavy gauge galvanized steel with powder coating												
Compressor		Type	Scroll												
		Qty.	No.	1	1	1	2	2	2	2	2	4	4	4	
		Refrigerant	-	R22/R407c/R417a											
Water heat exchanger		-	High efficiency tube-in-shell												
Water connection		Inlet&Outlet	inch	1"	1"	1"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"	3"	
Noise level		dB(A)	56	56	57	59	59	63	69	69	71	72	73	74	
Net dimension		W	mm	740	740	740	1470	1470	1470	2000	2000	2000	2000	2000	
		D	mm	740	740	740	840	840	840	950	950	950	1100	1000	2000
		H	mm	835	835	835	950	950	950	2000	2000	2100	2050	2000	2000
Net weight		kg	130	135	140	230	235	253	350	550	600	740	1075	1190	

The above data is based on the following testing condition: ambient temp.(DBWB) = 20°C/15°C, inlet/outlet water temp. = 15°C/55°C.
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

Commercial Heat Pump (Instant)

Technical Specifications

Model		CHW-08SI	CHW-018	CHW-0121	CHW-0131	CHW-020	CHW-0231	CHW-036	CHW-048	CHW-058
Power supply		V/Hz/Ph	380-415/50/3							
Heating Performance	Heating capacity	kWh	19	37.5	45	55	75	90	110	180
	Power input	kW	4.34	8.43	10.20	12.22	17.24	19.87	24.61	40.40
	Running current	A	7.8	15.1	18.2	21.8	30.8	35.5	44.0	72.8
	COP	-	4.36	4.45	4.41	4.50	4.35	4.53	4.47	4.51
	Hot water Production 15/55℃	L/h	408	806	967	1182	1612	1935	2365	3224
Ambient temp. range		℃	-10~43							
RatedMax.outlet water temp.		℃	55/50							
Rated water flow rate		m³/h	3.27	6.45	7.74	9.45	12.90	15.48	18.82	25.80
Rated pressure drop		kPa	50	50	50	50	50	50	50	50
Controller		-	Micro processor based digital wire controller with LCD display							
External cabinet		-	Heavy gauge galvanized steel with powder coating							
Compressor	Type	-	Scroll							
	Qty.	No.	1	1	1	1	2	2	3	4
	Refrigerant	-	R22/R407c/R417a							
Water heat exchanger		-	High efficiency tube-in-tube							
Water connection		Inlet&Outlet	inch	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Noise level		dB(A)	56	59	59	63	69	72	72	72
Net dimension (W*D*H)		mm	800*780*975	1470*840*950	1470*840*950	1470*840*950	2000*950*2000	2000*950*2100	2000*1100*2050	2000*1600*2000
Net weight		kg	130	380	380	500	570	600	1145	1200

The above data is based on the following testing condition: ambient temp.(DBWB) = 20°C/15°C, inlet/outlet water temp. = 15°C/55°C.
Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

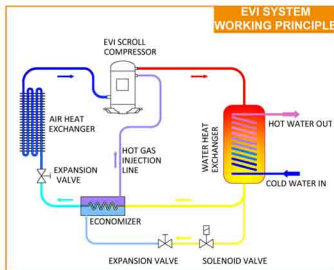


High Temperature Heat Pump

On-off & Inverter Type



Blueway High Temperature Heat Pump adopts EVI (Enhanced Vapor Injection) scroll compressor and the unit is capable of producing hot water with a maximum temperature up to 80°C, which is ideal for both commercial and industrial applications to kill legionella and some other bacteria. It uses R134A refrigerant, which is not only eco-friendly but reliable and stable especially for the system producing high temperature hot water.



Features & Highlights



- ◆ EVI Scroll compressor specially designed for high water temperature heat pump
- ◆ Adjustable water temp. setting: 25°C ~ 80°C
- ◆ Intelligent LCD wired controller
- ◆ Automatic defrosting function included
- ◆ Anti-legionella function on regular intervals
- ◆ Adopt R134a eco-friendly refrigerant is reliable for system producing high water temperature
- ◆ High efficiency tube-in-shell water heat exchanger
- ◆ Inner grooved copper tube for higher efficiency
- ◆ Blue hydrophilic aluminum fins to resist corrosion
- ◆ Back-up heating element for emergency (optional)



High Temp. Heat Pump (Cycle Heating) 50Hz

Technical Specifications

Model		HTHP-85SC	HTHP-81SC	HTHP-81SC	HTHP-83SC	HTHP-82SC	HTHP-83SC	HTHP-84SC	HTHP-85SC
Power supply		380-415/50/3							
A20 / W55 °C	Heating capacity	kW/h	13	25	39	52	65	78	104
	Power input	kW	4.27	8.52	12.66	17.05	21.24	25.91	34.21
	Running current	A	7.6	15.2	22.6	30.5	38.0	46.3	61.2
	COP	-	3.07	3.05	3.08	3.05	3.06	3.01	3.04
A20 / W70 °C	Heating capacity	kW/h	12.71	25.22	37.83	50.44	63.05	75.66	100.88
	Power input	kW	4.50	8.99	13.35	17.96	22.40	27.32	36.07
	Running current	A	8.0	16.1	23.9	32.1	40.0	49.8	64.5
	COP	-	2.82	2.81	2.83	2.81	2.82	2.77	2.80
Ambient temp. range		°C	-5~43						
Rated/Max.outlet water temp.		°C	75/80						
Rated water flow rate		m³/h	2.25	4.47	6.71	8.94	11.18	13.41	17.88
Rated pressure drop		kPa	50	50	50	50	50	50	50
Controller		-	Micro processor based digital wire controller with LCD display						
External cabinet		-	Heavy gauge galvanized steel with powder coating						
Compressor	Type	-	Scroll						
	Qty.	Nos.	1	2	2	2	2	4	4
	Refrigerant	-	R134a						
Water heat exchanger		-	High Efficiency Tube-in-Shell						
Water connection		Inlet/Outlet	inch	1-1/4"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Noise level		dB(A)	56	59	63	69	72	72	72
Net dimension (W*D*H)		mm	85	380	500	570	600	1200	1200
Net weight		kg	800*760*975	1470*840*950	1470*840*950	2000*950*2000	2000*950*2100	2000*1100*2050	2600*1100*1960

Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

High Temp. Heat Pump (Cycle Heating) 60Hz

Technical Specifications

Model		HTHP-85SC	HTHP-81SC	HTHP-81SC	HTHP-83SC	HTHP-82SC	HTHP-83SC	HTHP-84SC	HTHP-85SC
Power supply		380-415/60/3							
A20 / W55 °C	Heating capacity	kW/h	15.70	31.20	46.00	62.00	78.00	90.00	120.00
	Power input	kW	5.11	10.23	14.94	20.33	25.49	29.90	39.47
	Running current	A	9.1	18.3	26.7	36.3	45.6	53.4	70.6
	COP	-	3.07	3.05	3.08	3.05	3.06	3.01	3.04
A20 / W70 °C	Heating capacity	kW/h	15.23	30.26	44.62	60.14	75.66	87.30	116.40
	Power input	kW	5.39	10.79	15.75	21.43	26.88	31.53	41.62
	Running current	A	9.6	19.3	28.1	38.3	48.0	56.4	74.4
	COP	-	2.82	2.81	2.83	2.81	2.82	2.77	2.80
Ambient temp. range		°C	-5~43						
Rated/Max.outlet water temp.		°C	75/80						
Rated water flow rate		m³/h	2.70	5.37	7.91	10.66	13.41	15.48	20.64
Rated pressure drop		kPa	50	50	50	50	50	50	50
Controller		-	Micro processor based digital wire controller with LCD display						
External cabinet		-	Heavy gauge galvanized steel with powder coating						
Compressor	Type	-	Scroll						
	Qty.	Nos.	1	2	2	2	2	4	4
	Refrigerant	-	R134a						
Water heat exchanger		-	High Efficiency Tube-in-Shell						
Water connection		Inlet/Outlet	inch	1-1/4"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Noise level		dB(A)	56	59	63	69	72	72	72
Net dimension (W*D*H)		mm	85	380	500	570	600	1200	1200
Net weight		kg	800*760*975	1470*840*950	1470*840*950	2000*950*2000	2000*950*2100	2000*1100*2050	2600*1100*1960

Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

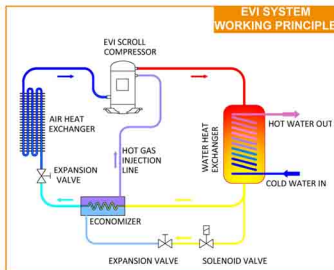


High Temperature Heat Pump

On-off & Inverter Type



Blueway High Temperature Heat Pump adopts EVI (Enhanced Vapor Injection) scroll compressor and the unit is capable of producing hot water with a maximum temperature up to 80°C, which is ideal for both commercial and industrial applications to kill legionella and some other bacteria. It uses R134A refrigerant, which is not only eco-friendly but reliable and stable especially for the system producing high temperature hot water.



Features & Highlights



- ◆ EVI Scroll compressor specially designed for high water temperature heat pump
- ◆ Adjustable water temp. setting: 25°C ~ 80°C
- ◆ Intelligent LCD wired controller
- ◆ Automatic defrosting function included
- ◆ Anti-legionella function on regular intervals
- ◆ Adopt R134a eco-friendly refrigerant is reliable for system producing high water temperature
- ◆ High efficiency tube-in-shell water heat exchanger
- ◆ Inner grooved copper tube for higher efficiency
- ◆ Blue hydrophilic aluminum fins to resist corrosion
- ◆ Back-up heating element for emergency (optional)



High Temp. Heat Pump (Cycle Heating) 50Hz

Technical Specifications

Model		HTHP-85SC	HTHP-81SC	HTHP-81SC	HTHP-83SC	HTHP-82SC	HTHP-83SC	HTHP-84SC	HTHP-85SC
Power supply		380-415/50/3							
A20 / W55 °C	Heating capacity	kW/h	13	25	39	52	65	78	104
	Power input	kW	4.27	8.52	12.66	17.05	21.24	25.91	34.21
	Running current	A	7.6	15.2	22.6	30.5	38.0	46.3	61.2
	COP	-	3.07	3.05	3.08	3.05	3.06	3.01	3.04
A20 / W70 °C	Heating capacity	kW/h	12.71	25.22	37.83	50.44	63.05	75.66	100.88
	Power input	kW	4.50	8.99	13.35	17.96	22.40	27.32	36.07
	Running current	A	8.0	16.1	23.9	32.1	40.0	49.8	64.5
	COP	-	2.82	2.81	2.83	2.81	2.82	2.77	2.80
Ambient temp. range		°C	-5~43						
Rated/Max.outlet water temp.		°C	75/80						
Rated water flow rate		m³/h	2.25	4.47	6.71	8.94	11.18	13.41	17.88
Rated pressure drop		kPa	50	50	50	50	50	50	50
Controller		-	Micro processor based digital wire controller with LCD display						
External cabinet		-	Heavy gauge galvanized steel with powder coating						
Compressor	Type	-	Scroll						
	Qty.	Nos.	1	2	2	2	2	4	4
	Refrigerant	-	R134a						
Water heat exchanger		-	High Efficiency Tube-in-Shell						
Water connection		Inlet/Outlet	inch	1-1/4"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Noise level		dB(A)	56	59	63	69	72	72	72
Net dimension (W*D*H)		mm	85	380	500	570	600	1200	1200
Net weight		kg	800*760*975	1470*840*950	1470*840*950	2000*950*2000	2000*950*2100	2000*1100*2050	2600*1100*1960

Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

High Temp. Heat Pump (Cycle Heating) 60Hz

Technical Specifications

Model		HTHP-85SC	HTHP-81SC	HTHP-81SC	HTHP-83SC	HTHP-82SC	HTHP-83SC	HTHP-84SC	HTHP-85SC
Power supply		380-415/60/3							
A20 / W55 °C	Heating capacity	kW/h	15.70	31.20	46.00	62.00	78.00	90.00	120.00
	Power input	kW	5.11	10.23	14.94	20.33	25.49	29.90	39.47
	Running current	A	9.1	18.3	26.7	36.3	45.6	53.4	70.6
	COP	-	3.07	3.05	3.08	3.05	3.06	3.01	3.04
A20 / W70 °C	Heating capacity	kW/h	15.23	30.26	44.62	60.14	75.66	87.30	116.40
	Power input	kW	5.39	10.79	15.75	21.43	26.88	31.53	41.62
	Running current	A	9.6	19.3	28.1	38.3	48.0	56.4	74.4
	COP	-	2.82	2.81	2.83	2.81	2.82	2.77	2.80
Ambient temp. range		°C	-5~43						
Rated/Max.outlet water temp.		°C	75/80						
Rated water flow rate		m³/h	2.70	5.37	7.91	10.66	13.41	15.48	20.64
Rated pressure drop		kPa	50	50	50	50	50	50	50
Controller		-	Micro processor based digital wire controller with LCD display						
External cabinet		-	Heavy gauge galvanized steel with powder coating						
Compressor	Type	-	Scroll						
	Qty.	Nos.	1	2	2	2	2	4	4
	Refrigerant	-	R134a						
Water heat exchanger		-	High Efficiency Tube-in-Shell						
Water connection		Inlet/Outlet	inch	1-1/4"	1-1/4"	1-1/2"	2"	2-1/2"	3"
Noise level		dB(A)	56	59	63	69	72	72	72
Net dimension (W*D*H)		mm	85	380	500	570	600	1200	1200
Net weight		kg	800*760*975	1470*840*950	1470*840*950	2000*950*2000	2000*950*2100	2000*1100*2050	2600*1100*1960

Blueway reserves the rights to modify the above specifications without notice for product improvement. Please contact us for updated information.

