AIR SOURCE
HOT WATER HEAT PUMP

SAVES MORE THAN 2/3 ENERGY
THAN ELECTRICAL WATER HEATER

Enjoy Comfortable Life!

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About Blueway

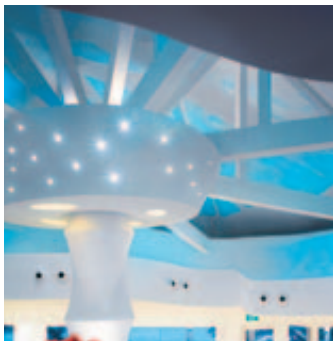
The name of **BLUEWAY** was founded in Australia in 1993. It has earned a worldwide reputation in the field of liquid heating and cooling systems (chillers & heat pumps) through about 20 years experience in this industry. In 2007, Blueway established its subsidiary manufacturer in Shunde, Foshan of China, utilizing the manufacturing advantages here and supply chillers and heat pumps worldwide.

Product Range

Blueway is capable of manufacturing and supplying even the largest liquid heating and cooling requirement for applications as diverse as:

- **Domestic and commercial hot and chilled water for homes and buildings**
- **Industrial water heating and cooling**
- **Commercial and industrial dehumidification and air handling systems**
- **Other specialist requirements**

Blueway produces Air/Water Heat Pumps including Swimming Pool Chiller & Heat Pumps, Indoor Swimming Pool Environment Control Systems (Dehumidifying, Cooling, Heating & Air Purifying), Multi Function Heat Pumps (House Heating, Cooling & Domestic Hot water), DC Inverter Heat Pumps, EVI Heat Pumps for low ambient temperatures, Hot Water Heat Pumps, Ground Source Heat pumps, Water Cooled Packaged Air Conditioners, etc. All its products are produced and tested in accordance with strict international quality control systems and standards, thus are able to adapt different weather conditions globally.

R&D Capacity

1) R&D Team

Blueway has a very strong R&D capacity and most of its technical staffs are of refrigeration or mechanic engineering background, some of them have 10-15 years experience in Air Conditioning and Heat Pump industry. Its technical director is a certified engineer by the Association of Energy Engineers of the United States

2) Advanced Laboratory

Blueway's Chiller and Heat Pump laboratory is equipped with highly advanced and sophisticated systems and instruments and is able to simulate harsh weather conditions down to -20°C and up to 60°C, thus can guarantee the reliability of its products operating at extremely harsh weather conditions. Its laboratory has been calibrated by General Machinery & Electrical Products Inspection Institute (GMPI).

Prestigious References

Blueway has exported its heat pump products to Australia, Europe, Middle East, South Africa and South America and have obtained worldwide recognition. In China market, Blueway's Indoor Pool Environment Control Heat Pump Systems have been applied and installed in many prestigious 5 star hotel projects and famous natatoriums, like Inter Continental Hotel & Resorts in Shenzhen, Sheraton Hotel in Taizhou and Shandong, Kempinski Hotel in Huizhou, the Natatorium of Shenzhen Universiade 2011 etc.

Blueway will continue its endeavor and commitment to serve its worldwide partners by offering innovative and highly efficient products and solutions.

Biforyo Hotel

Inter Continental Hotel

Jinji Lake Tourism Resorts

Kempinski Hotel

Sheraton Hotel

the Natatorium of Shenzhen Universiade

Key Components

Water Heat Exchanger

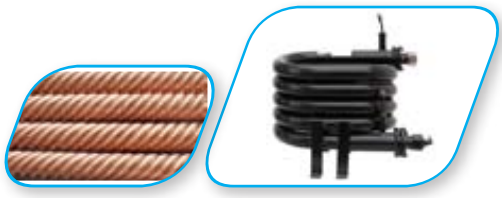
1) High efficiency tube-in-shell heat exchanger for Circulating Heat Pumps

◆ 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℃	-50~150℃ (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.

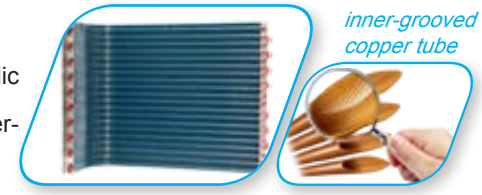
Compressor

◆ Famous brand rotary compressor for Domestic Heat Pumps
◆ Copeland or Danfoss scroll compressor for Commercial and Industrial Heat Pumps

Key Components

Evaporator Coil

The evaporator coil used is of fin and tube type. The fins are hydrophilic treated aluminum fins to resist corrosion, and the copper tubes are inner-grooved type, which increases the heat transfer in the refrigerant side.



Intelligent Control

The units are supplied with micro processor based digital controller with LCD 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.

Pumps

Domestic ranges are supplied with a built in circulation pumps. Blueway heat pumps apply German Willo pumps as standard.

Expansion Device

1) Electric Expansion Valve (EEV) is used for Domestic Range

2) Alco (Emerson) or Danfoss thermal expansion valve (TEV) is used for Commercial Range

Gas Pressure Actuated Water Flow Control Valve (for Instant Heating Models only)

To control the variable water flow actuated by the refrigerant pressure and ensure hot water is supplied at a constant adjustable leaving temperature

Domestic
Hot Water Heat Pump Circulating Models

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

Features & Highlights

- Famous brand high efficiency rotary and scroll compressor
- High efficiency eco-friendly R134A or R417A R407C refrigerant, without ozone depletion
- Built-in German Wilo circulation water pump
- Intelligent control: micro processor based digital controller with LCD display
- Adjustable water temperature setting: 25℃ - 60℃
- Electronic expansion valve (EEV) for expansion with reliability and high precision
- Tube-in- shell water heat exchanger with a maximum working water pressure up to 3.2Mpa
- Inner grooved copper tube for higher efficiency
- Blue hydrophilic aluminum fins to resist corrosion
- Automatic defrosting function included
- Anti- legionella function on regular intervals
- Can be retrofitted to existing geyser and used in conjunction with solar geyser

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
Performance	Heating capacity	kW/Hr.	3.5	5.2	7.2	9.8	14	18
	Power consumption	kW/Hr.	0.74	1.05	1.48	2.00	2.97	3.83
	COP	-	4.75	4.95	4.85	4.91	4.72	4.70
	Current	A	3.3	4.8	6.7	9.1	13.5	6.8
	Hot water production: 15/55℃	L/hour	75	112	155	211	301	387
Suggested tank connection (capacity range)		Liter	100-300	150-350	200-500	300-600	400-800	500-1000
Noise level	-	dB(A)	52	52	52	55	55	55
Rated water temperature	Inlet	℃	15					
	Outlet	℃	55					
Maximum outlet water temp.		℃	60					
Ambient temp. range		℃	-5~43					
Controller	-	-	Micro processor based digital wire controller with LCD display					
Compressor	Type		Rotary				Rotary/Scroll	Scroll
	Qty	Nos.	1	1	1	1	1	1
	Refrigerant	-	R134A		R417A	R407C		
Heat exchanger (water side)	Type	-	High efficiency tube-in-shell					
	Qty	Nos.	1					
	Construction Material	-	Tube: Copper, Shell: Steel					
Fan	Type	-	Axial					
	Airflow	m³/h	1800	1800	2500	2500	3300	5500
	Dia x Qty	mm x Nos.	320*1	400*1	420*1	420*1	440*1	560*1
	Material	-	Plastic					
Motor	Output Power	Watts	25	25	40	50	50	250
	RPM	-	850	850	850	850	850	850
	Qty	Nos.	1	1	1	1	1	1
Heat exchanger coil (air side)	Type		Fin-tube					
	Tube dia	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Row	-	1	1	2	2	2	2
Circulation water pump	Type	-	Centrifugal					
	Rated flow rate	m³/h	0.6	0.9	1.3	1.7	2.4	3.1
	Maximum pressure head	meter	6	6	6	8	8	8
	Insulation Class	IP	IP42	IP42	IP42	IP42	IP42	IP42
Water Connection	Inlet	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	1-1/4"
	Outlet	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	1-1/4"
Dimmension: W×H×D	Net	mm	770*300*490	930*280*580	1000*300*650	1000*300*650	750*340*1240	900*420*1390
	Shipping	mm	820*360*420	990*340*660	1060*360*730	1060*360*730	830*390*1320	960*480*1490
Weight	Net	Kg	38	50	59	65	95	140
	Shipping	Kg	43	55	64	70	115	165
Loading Qty	20'/40'/40'HQ	Set(s)	168/336/336	117/246/328	117/246/328	90/198/198	42/84/168	24/48/48

The above data is based on the following testing condition: ambient temp.(DB/WB) = 20℃/ 15 ℃, inlet/outlet water temp. = 15℃/55℃

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Domestic Hot Water Heat Pump

Instant Models

Instant Models 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 de-frosting technology enables the system work well in the low temperature, moist ambient conditions.

It adopts high efficiency tube-in-tube water heat exchanger and incorporates a built in German Willo pump for easy installation work. The unit is capable of producing hot water with a maximum temperature up to 60℃ . It can be retrofitted to existing geyser to replace electric water heater, saving more than 2/3 energy.

Features & Highlights

- Famous brand high efficiency rotary and scroll compressor
- High efficiency eco-friendly R134A, R417A or R407C refrigerant, without ozone depletion
- Rapid in hot water production
- Built-in German Wilo circulation water pump
- Intelligent control: micro processor based digital controller with LCD display
- Adjustable water temperature setting: 25℃ -60℃
- Tube-in- tube water heat exchanger with a maximum working water pressure up to 3.2Mpa
- Electronic expansion valve (EEV) for expansion with reliability and high precision
- Inner grooved copper tube for higher efficiency
- Blue hydrophilic aluminum fins to resist corrosion
- Automatic defrosting function included
- Anti- legionella function on regular intervals
- Can be retrofitted to existing geyser and used in conjunction with solar geyser

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
Performance	Heating capacity	kW/Hr.	3.5	5.2	7.2	9.8	14	18
	Power consumption	kW/Hr.	0.80	1.18	1.63	2.24	3.18	4.12
	COP	-	4.39	4.41	4.42	4.38	4.40	4.37
	Current	A	3.6	5.4	7.4	10.2	14.5	7.4
	Hot water production: 15/55℃	L/hour	75	112	155	211	301	387
Suggested tank connection (capacity range)		Liter	100-300	150-350	200-500	300-600	400-800	500-1000
Noise level	-	dB(A)	52	52	52	55	55	55
Rated water temperature	Inlet	℃	15					
	Outlet	℃	55					
Maximum outlet water temp.		℃	60					
Ambient temp. range		℃	-5~43					
Controller	-	-	Micro processor based digital wire controller with LCD display					
Compressor	Type		Rotary				Rotary/Scroll	Scroll
	Qty	Nos.	1	1	1	1	1	1
	Refrigerant	-	R134A		R417A	R407C		
Heat exchanger (water side)	Type	-	High efficiency tube-in-shell					
	Qty	Nos.	1					
	Construction Material	-	Tube: Copper, Shell: Steel					
Fan	Type	-	Axial					
	Airflow	m³/h	1800	1800	2500	2500	3300	5500
	Dia x Qty	mm x Nos.	320*1	400*1	420*1	420*1	440*1	560*1
	Material	-	Plastic					
Motor	Output Power	Watts	25	25	40	50	50	250
	RPM	-	850	850	850	850	850	850
	Qty	Nos.	1	1	1	1	1	1
Heat exchanger coil (air side)	Type		Fin-tube					
	Tube dia	mm	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52	Φ9.52
	Row	-	1	1	2	2	2	2
Built-in water pump	Type	-	Centrifugal					
	Rated flow rate	m³/h	0.08-0.6	0.12-0.9	0.16-1.3	0.22-1.7	0.3-2.4	0.4-3.1
	Maximum pressure head	meter	6	6	6	8	8	8
	Insulation Class	IP	IP42	IP42	IP42	IP42	IP42	IP42
Water Connection	Inlet	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	1-1/4"
	Outlet	Inch	3/4"	3/4"	3/4"	3/4"	3/4"	1-1/4"
Dimmension: W×H×D	Net	mm	770*300*490	930*280*580	1000*300*650	1000*300*650	750*340*1240	900*420*1390
	Shipping	mm	820*360*420	990*340*660	1060*360*730	1060*360*730	830*390*1320	960*480*1490
Weight	Net	Kg	38	50	59	65	95	140
	Shipping	Kg	43	55	64	70	115	165
Loading Qty	20'/40'/40'HQ	Set(s)	168/336/336	117/246/328	117/246/328	90/198/198	42/84/168	24/48/48

The above data is based on the following testing condition: ambient temp.(DB/WB) = 20℃/ 15 ℃, inlet/outlet water temp. = 15℃/55℃

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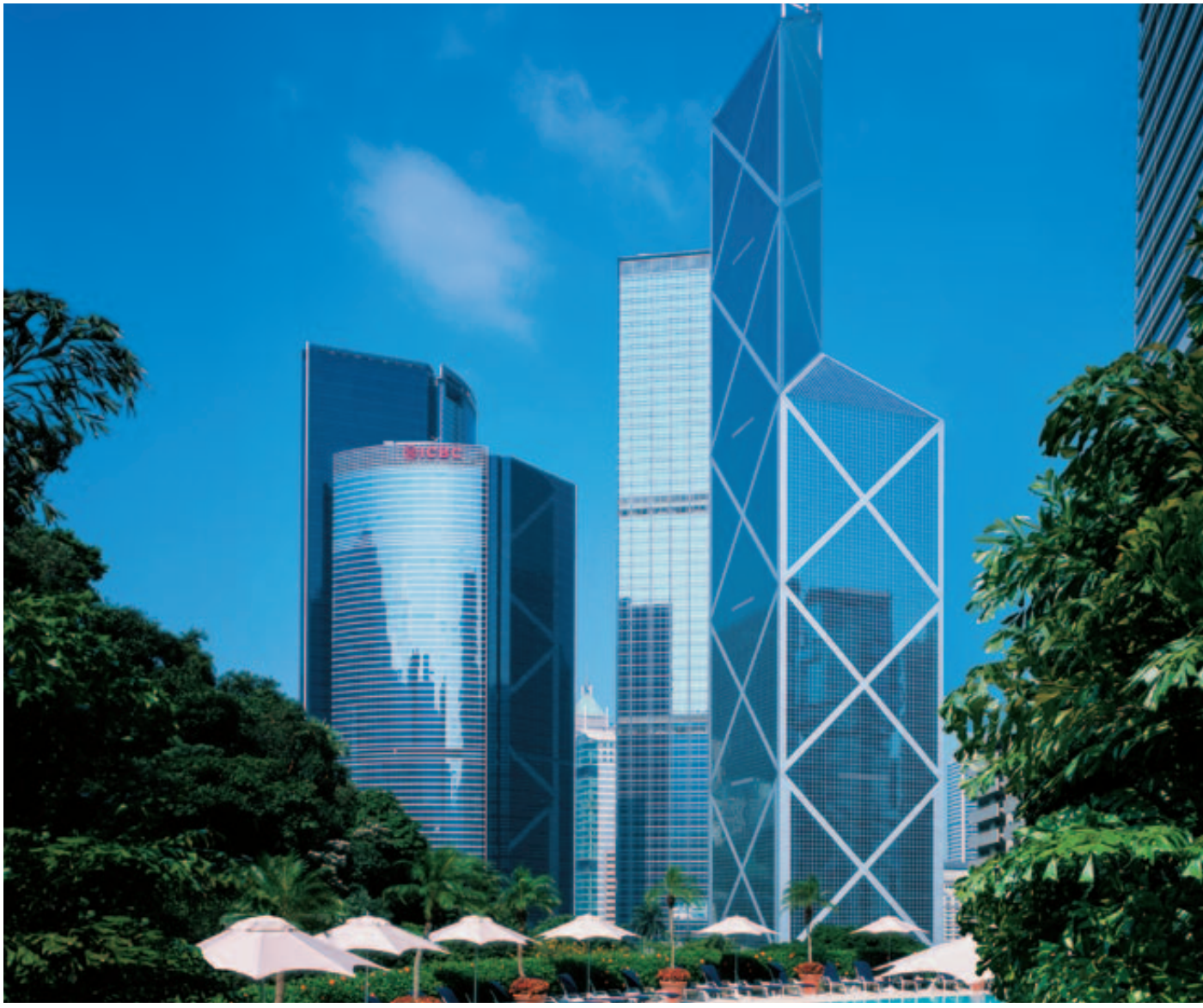
Commercial and Industrial
Hot Water Heat Pump



Blueway commercial and industrial Hot Water Heat Pumps are 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 R134A, R417A or R407C refrigerant, without ozone depletion
- Intelligent control: micro processor based digital controller with LCD display
- Adjustable water temperature setting: 25℃ -60℃
- Automatic defrosting function included
- Anti- legionella function on regular intervals
- Inner grooved copper tube for higher efficiency
- Water heat exchanger: tube-in- shell for cycle heating models, and tube-in-tube for direct heating models.
- Alco or Danfoss thermal expansion valve Advanced flow control devices for direct heating models
- Blue hydrophilic aluminum fins to resist corrosion
- Heavy gauge galvanized steel cabinet with epoxy powder coating, weather resistant for long lasting outdoor life span

Options:

- Circulating Heating) / Instant Heating
- Refrigerant: R134A / R417A / R407C
- Cabinet: Powder Coated Galvanized Steel / SUS 304
- Electrical boosting element

Commercial Heat Pump (Circulating)

Technical Specifications

Model			CHW-005C	CHW-010C	CHW-012C	CHW-015C	CHW-020C	CHW-025C	CHW-030C	CHW-040C	CHW-050C
HP			5	10	12	15	20	25	30	40	50
Power supply		V/Ph/Hz	380-415V/3Ph/50Hz								
Rated performance	Heating capacity	kW	19.00	37.50	45.00	55.00	75.00	90.00	110.00	150.00	180.00
	Power input	kW	3.90	7.80	9.45	11.88	15.92	19.23	23.76	31.91	38.71
	Running current	A	7.0	13.9	16.9	21.2	28.5	34.4	42.5	57.0	69.2
	COP		4.87	4.81	4.76	4.63	4.71	4.68	4.63	4.70	4.65
	Hot water Production: 15/55℃	L/h	408	806	967	1182	1612	1935	2365	3224	3869
	Noise level	DB(A)	62	63	63	66	68	68	68	68	68
Rated outlet water temp.		℃	55								
Max outlet water temp.		℃	60								
Ambient temperature range		℃	-5~43								
Rated water flow rate		L/h	3267	6449	7739	9458	12898	15477	18917	25795	30954
Rated pressure drop		kPa	50	50	50	50	50	50	50	50	50
Water connection		inch	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	3"	3"	3"	3"
Controller		-	Micro processor based digital wire controller with LCD display								
External cabinet		-	Heavy gaugle galvanized steel with powder coating								
Compressor	Nos.	-	1	2	2	3	2	2	3	4	4
	Type	-	Scroll								
	Refrigerant	-	R407C								
Water heat exchanger	Type	-	High Efficiency Tube-in-Shell								
	Materials	-	Shell: steel, Tube: Copper								
Coil	Type	-	Fin-tube: blue coated aluminum fins + inner grooved copper tube								
	Tube dia	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Rows	Nos.	2	2	2	2	3	3	3	4	4
Fan & Motor	Type	-	Axial								
	Direction	-	Verticle								
	Air flow	m3/h	6500	13000	13000	20000	26000	32000	39000	60000	60000
	Power input	W	850*1	850*2	850*2	750*2	900*2	1100*2	1500*2	1100*4	1100*4
	Speed	RPM	950	950	950	950	950	950	950	950	950
	Nos.	-	1	2	2	2	2	2	2	4	4
	Net	mm	720*760*1040	1420*760*1040	1420*760*1040	1420*760*1250	1700*1100*1820	2000*1100*2020	2300*1100*2020	2600*1100*1960	2600*1100*1960
	Packing	mm	780*820*1170	1480*820*1170	1480*820*1170	1480*820*1380	1760*1160*1950	2060*1160*2150	2360*1160*2150	2660*1160*2090	2660*1160*2090
	Net	Kg	85	380	380	500	570	600	1140	1200	1200
	Packing	Kg	95	410	410	535	600	640	1190	1250	1250
	20/40/40HC	Set(s)	42/84/84	14/28/28	14/28/28	7/14/14	6/12/12	5/10/10	4/8/8	4/8/8	4/8/8

The above data is based on the following testing condition: ambient temp.(DB/WB) @ 20℃/ 15 ℃, inlet/outlet water temp. @ 15℃/55℃

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Commercial Heat Pump (Instant)

Technical Specifications

Model			CHW-005I	CHW-010I	CHW-012I	CHW-015I	CHW-020I	CHW-025I	CHW-030I	CHW-040I	CHW-050I
HP			5	10	12	15	20	25	30	40	50
Power supply		V/Ph/Hz	380-415/3Ph/50Hz								
Rated performance	Heating capacity	kW	19.00	37.50	45.00	55.00	75.00	90.00	110.00	150.00	180.00
	Power input	kW	4.34	8.43	10.20	12.22	17.24	19.87	24.61	33.26	40.72
	Running current	A	7.8	15.1	18.2	21.8	30.8	35.5	44.0	59.5	72.8
	COP		4.38	4.45	4.41	4.50	4.35	4.53	4.47	4.51	4.42
	Hot water Production: 15/55℃	L/h	408	806	967	1182	1612	1935	2365	3224	3869
	Noise level	DB(A)	62	63	63	66	68	68	68	68	68
Rated outlet water temp.		℃	55								
Max outlet water temp.		℃	60								
Ambient temperature range		℃	-5~43								
Rated pressure drop		kPa	50	50	50	50	50	50	50	50	50
Water connection		inch	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	3"	3"	3"	3"
Controller		-	Micro processor based digital wire controller with LCD display								
External cabinet		-	Heavy gaugle galvanized steel with powder coating								
Compressor	Nos.	-	1	2	1	2	2	2	3	4	4
	Type	-	Scroll								
	Refrigerant	-	R407C								
Water heat exchanger	Type	-	High Efficiency Tube-in-Tube								
Coil	Type	-	Fin-tube: blue coated aluminum fins + inner grooved copper tube								
	Tube dia	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Rows	Nos.	2	2	2	2	3	3	3	4	4
Fan & Motor	Type	-	Axial								
	Direction	-	Verticle								
	Air flow	m3/h	6500	13000	13000	20000	26000	32000	39000	60000	60000
	Power input	W	850*1	850*2	850*2	750*2	900*2	1100*2	1500*2	1100*4	1100*4
	Speed	RPM	950	950	950	950	950	950	950	950	950
	Nos.	-	1	2	2	2	2	2	2	4	4
Packing (W*H*D)	Net	mm	720*760*1040	1420*760*1040	1420*760*1040	1420*760*1250	1700*1100*1820	2000*1100*2020	2300*1100*2020	2600*1100*1960	2600*1100*1960
	Packing	mm	780*820*1170	1480*820*1170	1480*820*1170	1480*820*1380	1760*1160*1950	2060*1160*2150	2360*1160*2150	2660*1160*2090	2660*1160*2090
Weight	Net	Kg	85	380	380	500	570	600	1140	1200	1200
	Packing	Kg	95	410	410	535	600	640	1190	1250	1250
Loading	20/40/40HC	Set(s)	42/84/84	14/28/28	14/28/28	7/14/14	6/12/12	5/10/10	4/8/8	4/8/8	4/8/8

The above data is based on the following testing condition: ambient temp.(DB/WB) @ 20℃/ 15 ℃, inlet/outlet water temp. @ 15℃/55℃

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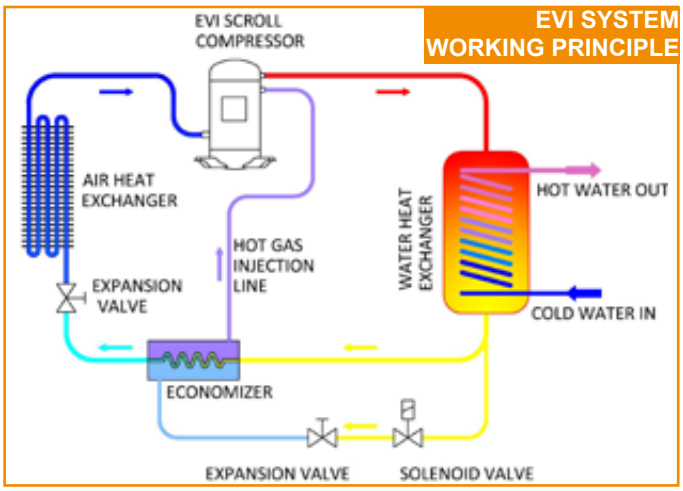
High Temperature
Hot Water Heat Pump

Max. Water Temperature 75℃

Blueway High Temperature Hot Water Heat Pump adopts EVI (Enhanced Vapor Injection) scroll compressor and the unit is capable of producing hot water with a maximum temperature up to 75℃ , 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
- R134A refrigerant, eco friendly and reliable for system producing high water temperature
- Intelligent control: micro processor based digital controller with LCD display
- Anti- legionella function on regular intervals
- Adjustable water temperature setting: 25℃ -75℃
- High efficiency tube-in- shell water heat exchanger with a maximum working water pressure up to 3.2Mpa
- Alco thermal expansion valve for reliability
- Inner grooved copper tube for higher efficiency
- Blue hydrophilic aluminum fins to resist corrosion
- Automatic defrosting function included
- Back-up heating element for emergency (optional)

High Temp. Heat Pump (Cycle Heating) 50Hz Technical Specifications

Model			HTHP-005C	HTHP-010C	HTHP-015C	HTHP-020C	HTHP-036C
HP			5	10	15	20	36
Power supply		V/Ph/Hz	380-415V/3Ph/50Hz				
A20 / W55℃	Heating capacity	kW	14.54	29.00	43.00	58.00	100.00
	Power input	kW	3.41	6.82	10.13	13.64	23.68
	Running current	A	6.1	12.2	18.1	24.4	42.3
	COP	-	4.26	4.25	4.24	4.25	4.22
A20 / W65℃	Heating capacity	kW	13.10	26.00	39.00	52.00	90.00
	Power input	kW	4.27	8.52	12.66	17.05	29.61
	Running current	A	7.6	15.2	22.6	30.5	52.9
	COP	-	3.07	3.05	3.08	3.05	3.04
A20 / W70℃	Heating capacity	kW	12.71	25.22	37.83	50.44	87.30
	Power input	kW	4.50	8.99	13.35	17.98	31.21
	Running current	A	8.0	16.1	23.9	32.1	55.8
	COP	-	2.82	2.81	2.83	2.81	2.80
Noise level		DB(A)	60	64	65	65	70
Rated outlet water temp.		℃	55				
Max outlet water temp.		℃	75				
Ambient temperature range		℃	-15~43				
Rated water flow rate		L/h	2253	4471	6707	8942	15477
Rated pressure drop		kPa	50	50	50	50	50
Water connection		inch	1-1/4	1-1/2	2-1/2	2-1/2	4
Controller		-	Micro processor based digital wire controller with LCD display				
External cabinet		-	Heavy gaugle galvanized steel with powder coating				
Compressor	Make	-	Danfoss				
	Type	-	Scroll				
	Nos.	-	1	2	3	2	4
	Refrigerant	-	R134A				
Water heat exchanger	Type	-	High Efficiency Tube-in-Shell				
	Materials	-	Shell: steel, Tube: Copper				
Coil	Type	-	Fin-tube: blue coated aluminum fins + inner grooved copper tube				
	Tube dia	mm	9.52	9.52	9.52	9.52	9.52
	Rows	Nos.	2	2	2	3	4
Fan & Motor	Type	-	Axial				
	Direction	-	Verticle				
	Fan dia.	mm	600	600	710	710	800
	Air flow	m3/h	6500	13000	19500	26000	60000
	Power input	W	850	1700	1500	1800	4400
	Speed	RPM	850	850	850	850	850
	Nos.	-	1	2	2	2	4
Dimension (W*H*D)	Net	mm	720*760*1040	1420*760*1040	1420*760*1250	1700*1100*1820	2600*1100*1960
	Packing	mm	780*820*1170	1480*820*1170	1480*820*1380	1760*1160*1950	2660*1160*2090
Weight	Net	Kg	85	380	500	570	1200
	Packing	Kg	95	410	535	600	1250
Loading	20/40/40HC	Set(s)	42/84/84	14/28/28	7/14/14	6/12/12	4/8/8

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High Temp. Heat Pump (Cycle Heating) 60Hz Technical Specifications

Model			HTHP-005C3	HTHP-010C3	HTHP-015C3	HTHP-020C3	HTHP-025C3	HTHP-030C3	HTHP-040C3	HTHP-050C3
HP			5	10	15	20	25	30	40	50
Power supply		V/Ph/Hz	380-415V/3Ph/60Hz							
A20 / W65℃	Heating capacity	kW	15.70	31.20	46.00	62.00	78.00	90.00	120.00	150.00
	Power input	kW	5.11	10.23	14.94	20.33	25.49	29.90	39.47	49.67
	Running current	A	9.1	18.3	26.7	36.3	45.6	53.4	70.6	88.8
	COP	-	3.07	3.05	3.08	3.05	3.06	3.01	3.04	3.02
A20 / W70℃	Heating capacity	kW	15.23	30.26	44.62	60.14	75.66	87.30	116.40	145.50
	Power input	kW	5.39	10.79	15.75	21.43	26.88	31.53	41.62	52.37
	Running current	A	9.6	19.3	28.1	38.3	48.0	56.4	74.4	93.6
	COP	-	2.82	2.81	2.83	2.81	2.82	2.77	2.80	2.78
Noise level		DB(A)	60	64	65	65	65	70	70	70
Rated outlet water temp.		℃	55							
Max outlet water temp.		℃	70							
Ambient temperature range		℃	-10~43							
Rated water flow rate		L/h	2700	5365	7911	10662	13414	15477	20636	25795
Rated pressure drop		kPa	50	50	50	50	50	50	50	50
Water connection		inch	1-1/4	1-1/2	2-1/2	2-1/2	3	3	4	4
Controller		-	Micro processor based digital wire controller with LCD display							
External cabinet		-	Heavy gaugle galvanized steel with powder coating							
Compressor	Make	-	Danfoss							
	Type	-	Scroll							
	Nos.	-	1	2	3	2	2	3	4	4
	Refrigerant	-	R134A							
Water heat exchanger	Type	-	High Efficiency Tube-in-Shell							
	Materials	-	Shell: steel, Tube: Copper							
Coil	Type	-	Fin-tube: blue coated aluminum fins + inner grooved copper tube							
	Tube dia	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Rows	Nos.	2	2	2	3	3	3	4	4
Fan & Motor	Type	-	Axial							
	Direction	-	Verticle							
	Fan dia.	mm	600	600	710	710	800	850	800	800
	Air flow	m3/h	6500	13000	19500	26000	32000	39000	60000	60000
	Power input	W	850	1700	1500	1800	2200	3000	4400	4400
	Speed	RPM	950	950	950	950	950	950	950	950
	Nos.	-	1	2	2	2	2	2	4	4
Dimension (W*H*D)	Net	mm	720*760*1040	1420*760*1040	1420*760*1250	1700*1100*1820	2000*1100*2020	2300*1100*2020	2600*1100*1960	2600*1100*1960
	Packing	mm	780*820*1170	1480*820*1170	1480*820*1380	1760*1160*1950	2060*1160*2150	2360*1160*2150	2660*1160*2090	2660*1160*2090
Weight	Net	Kg	85	380	500	570	600	1140	1200	1200
	Packing	Kg	95	410	535	600	640	1190	1250	1250
Loading	20/40/40HC	Set(s)	42/84/84	14/28/28	7/14/14	6/12/12	5/10/10	4/8/8	4/8/8	4/8/8

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