

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°C	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	°C	-10~43						
Rated/Max.outlet water temp.	°C	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°C	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	°C	-10~43						
Rated/Max.outlet water temp.	°C	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.

