



FOSHAN BLUEWAY ELECTRIC APPLIANCES CO., LTD.

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Air Cooled Water Chiller



Engineered for
the harsh weather conditions
in the Gulf countries at the Middle East

An ideal solution to
Sanitary Chilled Water applications

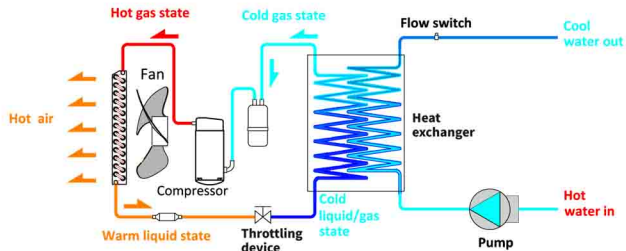
GENERAL INFORMATION



Blueway **Air Cooled Water Chiller** is specially designed for the need of sanitary chilled water in tropical regions of the gulf areas, where the ambient temperature in summer can even go up to as high as 53°C, causing the rooftop tank water reaches unbearable temperatures. The unit works as a chiller in summer, which chills the rooftop tank water to a comfortable temperature ideal for use in bathroom and kitchen, such as shower, bath, washing, laundry, cooking, drinking and cleaning etc. It adopts a CFC free, eco-friendly refrigerant which is highly efficient and has no depletion to ozone layer.

The system consists of a refrigerant circuit and water circuit. The refrigerant circuit is composed of a compressor, a condenser coil, heat exchanger and a throttling device. The water circuit is composed of a built-in pump, the same water heat exchanger.

The refrigerant absorbs heat from the water passing by the heat exchanger, by which the water temperature is reduced. The whole system is controlled by an intelligent digital controller with a friendly user interface.



WORKING PRINCIPLE OF BLUEWAY CHILLER SYSTEM

Key Components

Intelligent Control



Condenser Coils



Compressor



Water Pump



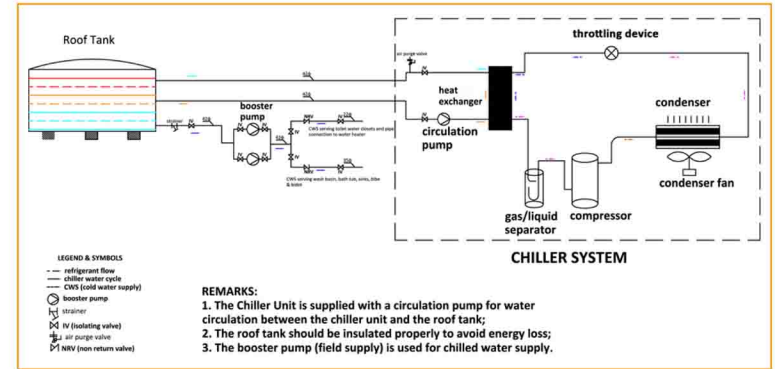
Aluminum fan blade

FEATURES & HIGHLIGHTS

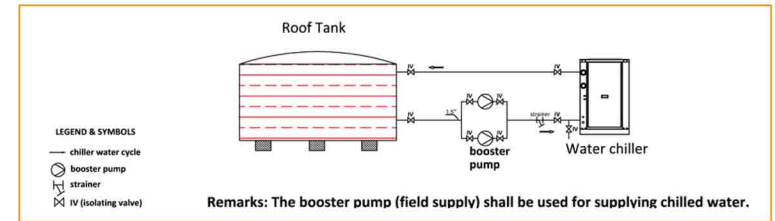
- Tropical design for a maximum working ambient temperature of 52°C
- High efficiency compressor, tropical for high ambient conditions
- Eco friendly CFC free refrigerant, without ozone depletion
- Micro processor based digital controller with LCD user interface
- Heat exchanger with high thermal efficiency, high working temperature and low maintenance
- Built in circulation pump
- Guaranteed water safety, no potential risk of contamination to potable water
- Full safety protection incorporated to the system:
 - high pressure and low pressure protection
 - compressor overload and high discharge temperature protection
 - phase failure protection
 - water flow protection
 - anti-freezing protection
- Heavy gauge galvanized steel cabinet with epoxy powder painting, for long lasting outdoor life span

Application Diagrams

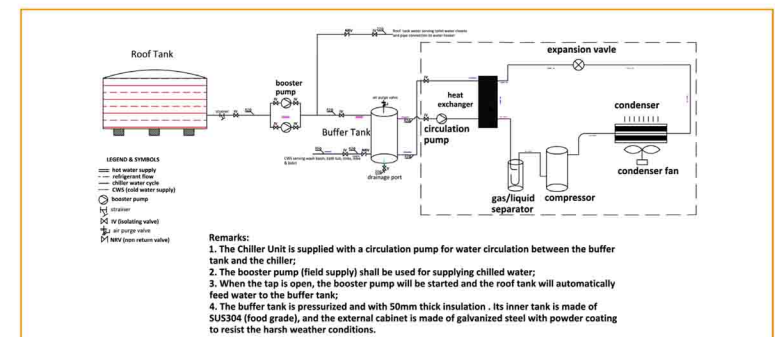
Installation without Buffer Tank (Domestic Type)



Installation without Buffer Tank (Commercial Type)



Installation with Buffer Tank (Single Cooling System)



Domestic Air Cooled Water Chiller (50Hz)

Technical Specifications

Model		DWC-18V	DWC-24V	DWC-36V	DWC-48V	DWC-60V	DWC-84V	
Nominal cooling capacity		ton/h	1.5	2	3	4	5	7
Power supply		V/Hz/Ph	220-240/50/1			380-415/50/3		
Cooling (1): A35/24°C W30/25°C	Cooling capacity	btu/h	20813	28490	41626	54592	66875	95092
		W/h	6100	8350	12200	16000	19600	27870
	Power consumption	W	1540	2110	3110	4160	5100	7426
	EER	-	3.96	3.96	3.92	3.85	3.84	3.76
Cooling (2): A46/24°C W30/25°C	Cooling capacity	btu/h	17691	24217	35382	46403	56844	81888
		W/h	5200	7200	10600	14000	17500	24000
	Power consumption	W	1770	2440	3670	4950	6040	8550
	EER	-	2.94	2.95	2.89	2.83	2.9	2.8
Ambient temp. range		°C	20-53					
Outlet water temp. range		°C	15-35					
Rated water flow rate		m³/h	0.9	1.2	1.8	2.4	3	4
Controller		-	Micro processor based digital wire controller with LCD display					
Fan		-	Aluminum					
External cabinet		-	Galvanized steel with powder coating					
Compressor	Type	-	Rotary		Scroll			
	Qty.	Nos.	1					
	Refrigerant	-	R410a					
Water heat exchanger		-	S/S tube-in-tube or titanium tube in PVC Shell					
Bill-in water pump (optional)		-	Wilo/Shinwoo					
Water connection	Inlet&Outlet	inch	1"	1"	1"	1"	1"	1-1/4"
Noise level		dB(A)	56	57	63	63	63	63
Net dimension	W*D*H	mm	610*610*653	610*610*653	740*740*653	740*740*835	740*740*835	740*740*1050
Net weight		kg	55	60	87	105	120	162

Notes:

1. Conditions of "Cooling (1)": Ambient air temperature DB/WB: 35/24°C, Inlet/Outlet water temperature: W30/25°C;
 2. Conditions of "Cooling (2)": Ambient air temperature DB/WB: 46/24°C, Inlet/Outlet water temperature: W30/25°C;
 Blueway reserves the rights to modify the above specifications without notice for product improvement.
 Please contact us for updated information.



Commercial Air Cooled Water Chiller (50Hz)

Technical Specifications

Model			BAWC-8	BAWC-10	BAWC-12	BAWC-18
Nominal cooling capacity		ton/h	8	10	12	18
Power Supply		V/Hz/Ph	380-415/50/3			
Cooling (1): A35/24°C W30/25°C	Cooling capacity	btu/h	107478	133068	167188	249076
		W/h	31500	39000	49000	73000
	Power consumption	W	8200	10200	12800	19000
	EER	-	3.84	3.82	3.83	3.84
Cooling (2): A46/24°C W30/25°C	Cooling capacity	btu/h	95536	119420	146716	214956
		W/h	28000	35000	43000	63000
	Power consumption	W	10000	12000	15100	21700
	EER	-	2.8	2.92	2.85	2.9
Ambient temp. range		°C	20-53			
Outlet water temp. range		°C	15-35			
Rated water flow rate		m³/h	5	6	7.4	10.8
Controller		-	Micro processor based digital wire controller with LCD display			
Fan		-	Aluminum			
External cabinet		-	Galvanized steel with powder coating			
Compressor	Type	-	Scroll			
	Qty.	Nos.	2			
	Refrigerant	-	R410a			
Water heat exchanger		-	Braze plate heat exchanger			
Water pump (optional)		-	Wilo/Shinwoo			Shinwoo/Yuanli
Water connection	Inlet&Outlet	inch	1-1/2"	1-1/2"	1-1/2"	2"
Noise level		dB(A)	65	65	67	71
Net dimension (W*D*H)		mm	1432*742*1064	1432*742*1064	1432*800*1064	2000*950*2050
Net weight		kg	290	300	330	380

Notes:

1. Conditions of "Cooling (1)": Ambient air temperature DB/WB: 35/24°C, Inlet/Outlet water temperature: W30/25°C;
 2. Conditions of "Cooling (2)": Ambient air temperature DB/WB: 46/24°C, Inlet/Outlet water temperature: W30/25°C;
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