

EVEN WHEN IT IS 52°C OUTSIDE,  
GET 28°C COOL WATER INSIDE



It takes an expert to give you unmatched cooling.

The Blue Star Water Tank Chiller is built to cool even in the harshest temperatures. Made with high grade materials and designed robustly, it is built to last and gives you the assurance of cool and pleasant water, day in and day out.



High-efficiency rotary and scroll compressors



Built-in hydronic system



Environment-friendly R410A refrigerant



High Efficiency, Heavy Duty inbuilt pump for recirculation of water



Plug-in type for faster installation

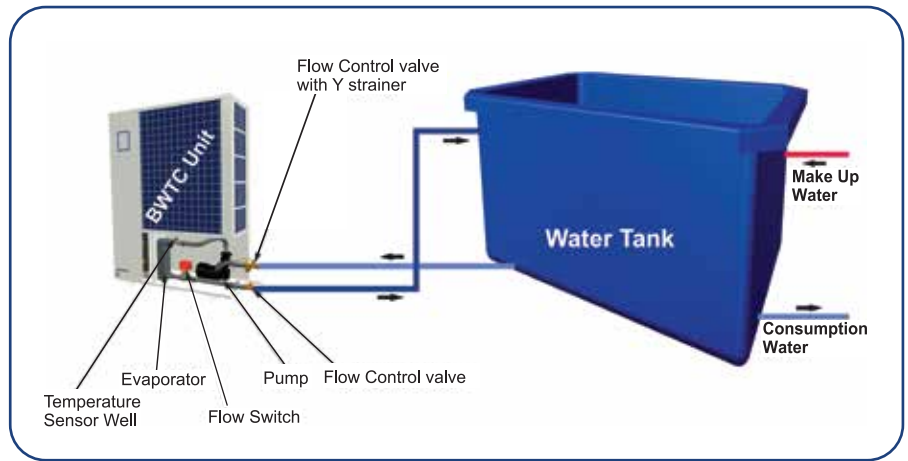


Service port and valves for ease of maintenance



Easy to operate through in-built/remotely installed microprocessor controller

## Typical tank vs. chiller positions layout



## Technical Specifications: R410A Water Tank Chillers

	Model No.	BWTC1-05Y1R3A	BWTC1-07Y1R3A	BWTC1-13S3R3A	BWTC1-16S3R3A	BWTC1-25S3R3A	BWTC2-35S3R3A	BWTC2-50S3R3A	BWTC2-75S3R3A
Performance	Nominal Capacity (kW/TR)	5/1.5	7/2	13/4	16/5	25/7.5	35/10	50/15	75/22
	Tank Capacity (USG)	1200	1600	3500	4000	6500	8200	13000	18500
	Cooling Capacity @35/46 amb (TR)	1.40/1.14	1.86/1.51	3.94/3.17	4.60/3.74	7.40/6.01	9.40/7.63	14.7/12.01	21.2/17.25
	Cooling Capacity @35/46 amb (kW)	4.92/4.01	6.54/5.31	13.85/11.15	16.17/13.15	26.02/21.13	33.05/26.83	51.68/42.23	74.54/60.65
	Power Input @35/46 amb (kW)	1.93/2.39	2.53/3.14	5.52/6.96	6.3/8.11	10.02/12.63	11.47/14.45	19.36/24.39	29.25/36.86
	Rated Current @35/46 amb (amp)	10.23/12.67	13.41/16.65	9.71/12.25	11.09/14.28	17.64/22.23	20.19/25.44	34.08/42.94	51.50/64.88
	Incoming Cable Size	2 Core x 2.5 mm <sup>2</sup> Cu	2 Core x 2.5 mm <sup>2</sup> Cu	4 Core x 4 mm <sup>2</sup> Cu	4 Core x 4 mm <sup>2</sup> Cu	4 Core x 10 mm <sup>2</sup> Cu	4 Core x 16 mm <sup>2</sup> Cu	4 Core x 25 mm <sup>2</sup> Cu	4 Core x 35 mm <sup>2</sup> Cu
	Power Supply	230V/50Hz/1-Phase AC				400V/50Hz/3-Phase AC			
Compressor	Type	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
	Quantity	1	1	1	1	1	2	2	2
Evaporator	Type	AISI 316 Stainless Steel brazed plate heat exchanger							
	Quantity	1	1	1	1	1	1 (dual)	1 (dual)	1 (dual)
Condenser	Type	FTHX (inner grooved copper tube mechanically bonded with anti-corrosive hydrophobic coated aluminium fins)							
	Quantity	1	1	1	1	1	1	2	2
Condenser Fan & Motor	Fan Diameter (inch)	20"	20"	24"	24"	26"	26"	26"	26"
	Motor (HP)	0.25	0.25	0.5	0.5	0.75	0.75	0.75	0.75
Chilled Water Pump	Quantity	1	1	1	1	1	1	2	2
	Type/Material	Heavy duty, High- efficiency centrifugal pump							
Chiller Water Connections	Flow Rate (GPM)	3.6	4.8	9.6	12	18	22.8	36	46.2
	Inlet/Outlet Size (NB)	1"	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"
Refrigerant	Inlet/Outlet Quantity	1 each	1 each	1 each	1 each	1 each	1 each	1 each	1 each
	Type	Environment-friendly R410A							
Controller	Type	Microprocessor-based controller with inbuilt digital display, complete alarm management and interlock with safeties							
	Safety Devices	High pressure, low pressure, flow switch, contactor, overload protection for all models and crankcase heater for scroll compressors							
Dimensions & Weight	Dimensions (W x H x D)	1285 x 1057 x 464	1285 x 1057 x 464	1285 x 1359 x 464	1285 x 1359 x 464	1222 x 1687 x 1128	1222 x 1687 x 1128	1222 x 1687 x 2245	1222 x 1687 x 2245
	Net Weight (kg)	105	115	195	230	380	395	660	710

Notes: (1) Performance data as per AHRI Standard 550/590.

(2) Tank capacity is calculated based on water inlet temperature 40°C/water outlet temperature 30°C/ambient temperature 46°C/pull down time 16 hours.

Blue Star has a policy of continuous product and product data improvement and reserves the rights to change the design and specifications without notice.



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