



Mini Water Cooler

Designed to cool the water in the bathroom for use of shower and bath in the hot summers

Royal Cool Mini Water Cooler

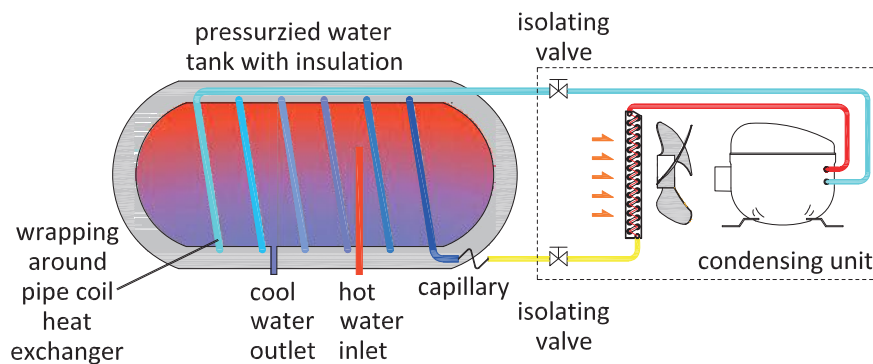
is designed to cool the water in the bathroom for use of shower and bath in the hot summers. The cooler can cool the water down to 8°C and the cooled water is stored in a storage tank to be mixed with the hot city water in a mixing valve for use of shower and bath. This solution removes the headache of unbearable hot water for shower and bath during summer time of the Gulf Area.

The water cooler is of a split design, which has a condensing unit and a water tank with pipe coil heat exchanger wrapping around the inner tank. Unlike using immersed pipe coil, this design ensures no potential risk of contamination to potable water due to corrosion or refrigerant leakage. The inner tank for the water tank is of food grade glass lined type (porcelain coated). The condensing unit is incorporated with a piston compressor which gives powerful cooling capacity and reliable performance at tropical ambient conditions. The refrigerant used is R134A which is eco friendly and has no depletion to ozone layer.



APPLICATION & FEATURES

Application



Features

- Piston compressor for strong cooling capacity and reliable performance at tropical region;
- High efficiency condensing motor;
- Axial fan blades made of aluminum;
- Wrapping around aluminum pipe coil heat exchanger, no potential risk of contamination to potable water;
- Food grade glass lined (porcelain coated) inner tank for water safety (SUS 304 inner tank is optional);
- 50mm thick integral insulation for the water tank;
- Adjustable water temperature control: optional for mechanical control and electric control;
- Water temperature setting: 8°C to 30°C;
- Full protections: overheat and over current protection for compressor, low water temperature protection

Technical Specifications **Mini Water Cooler (50Hz)**

Model			MWC0.2-50L	MWC0.25-80L	MWC0.5-100L	
Power Supply	-	V/Hz/Ph	220-240/50/1			
Chilled Water Performance (1)	Cooling capacity	BTU/Hr	1950	2650	4050	
	Power consumption	Watts	212	293	451	
	EER	-	2.70	2.65	2.63	
	Current	A	0.92	1.27	1.96	
	Chilled water	L/H	25	33	51	
Chilled Water Performance (2)	Cooling capacity	BTU/Hr	1658	2253	3443	
	Power consumption	Watts	250	346	533	
	EER	-	1.94	1.91	1.89	
	Current	A	1.09	1.50	2.32	
	Chilled water	L/H	21	28	43	
Water Tank	Capacity	Litter	50	80	100	
	Internal tank	Materials	Glass-lined	Glass-lined	Glass-lined	
	Insulation thickness	mm	50	50	50	
Noise level	-	dB(A)	42	42	42	
Controller	-	-	Mechanical or Electric			
Compressor	Type		Piston			
	Qty	Nos.	1			
	Refrigerant	-	R134A			
Heat exchanger (water side)	Type	-	Wrapping around aluminum pipe coil			
	Qty	Nos.	1			
Condenser fan	Type	-	Axial			
	Airflow	CFM	176	224	471	
	Dia x Qty	mm x Nos.	φ200 x 1	φ250 x 1	φ250 x 1	
	Material	-	Aluminum			
Condenser motor	Output Power	Watts	25	30	40	
	RPM	-	1500	1500	1300	
	Qty	Nos.	1			
Condenser coil	Type		Fin-flat tube			
	Tube dia	mm	φ7.0			
	Row	-	2			
	FPI	-	8.5			
	Total face area	m ²	0.054	0.054	0.07	
Water Connection	Inlet	Inch	G3/4"			
	Outlet	Inch	G3/4"			
Service Valve	Gas	mm	φ6.35	φ6.35	φ8	
	Liquid	mm	φ4	φ4	φ5	
Dimmension: WxDxH	Water tank	Net	mm	φ400 x 700	φ400 x 1120	φ400 x 1330
		Shipping	mm	φ450 x 760	φ450 x 1180	φ450 x 1390
	Condensin g unit	Net	mm	330x300x260	330x300x260	350x300x280
		Shipping	mm	370x340x300	370x340x300	390x340x320
Weight	Water tank	Net	Kg	31.2	46.8	58.16
		Shipping	Kg	37.2	54.8	68.16
	Condensin g unit	Net	Kg	17	18	20
		Shipping	Kg	19	20	23
Loading Qty 20'/40'/40'HC	Water tank	Set(s)	190/375/450	120/250/300	100/210/250	
	Condensing unit	Set(s)	896/1792/2016	896/1792/2016	735/1470/1680	

Test Conditions:

- 1.Chilled Water Performance (1): Air 35/24°C (DB/WB), Water 45/25°C (Inlet/Outlet);
- 2.Chilled Water Performance (2): Air 46/24°C (DB/WB), Water 45/25°C (Inlet/Outlet);



Mini Water Cooler (60Hz) Technical Specifications

Model			MWC0.25-50L	MWC0.25-80L	
Power Supply	-	V/Hz/Ph	208-230/60/1		
Chilled Water Performance (1)	Cooling capacity	BTU/Hr	3180	3180	
	Power consumption	Watts	339	352	
	EER	-	2.75	2.65	
	Current	A	1.47	1.53	
	Chilled water	L/H	40	40	
Chilled Water Performance (2)	Cooling capacity	BTU/Hr	2703	2671	
	Power consumption	Watts	400	415	
	EER	-	1.98	1.89	
	Current	A	1.74	1.80	
	Chilled water	L/H	34	34	
Water Tank	Capacity	Litter	80	80	
	Internal tank	Materials	Glass-lined	Glass-lined	
	Insulation thickness	mm	50	50	
Noise level	-	dB(A)	42	42	
Controller	-	-	Mechanical or Electric		
Compressor	Type		Piston		
	Qty	Nos.	1		
	Refrigerant	-	R134A		
Heat exchanger (water side)	Type	-	Wrapping around aluminum		
	Qty	Nos.	1		
Condenser fan	Type	-	Axial		
	Airflow	CFM	176	224	
	Dia x Qty	mm x Nos.	φ200 x 1	φ250 x 1	
	Material	-	Aluminum		
Condenser motor	Output Power	Watts	25	30	
	RPM	-	1500	1500	
	Qty	Nos.	1		
Condenser coil	Type		Fin-flat tube		
	Tube dia	mm	φ7.0		
	Row	-	2		
	FPI	-	8.5		
Water Connection	Inlet	Inch	G3/4"		
	Outlet	Inch	G3/4"		
Service Valve	Gas Liquid	mm	φ6.35	φ6.35	
		mm	φ4	φ4	
Dimmension: WxDxH	Water tank	Net	mm	φ400 x 700	
		Shipping	mm	φ450 x 760	
	Condensin g unit	Net	mm	330x300x260	330x300x260
		Shipping	mm	370x340x300	370x340x300
Weight	Water tank	Net	Kg	31.2	
		Shipping	Kg	37.2	
	Condensin g unit	Net	Kg	17	18
		Shipping	Kg	19	20
Loading Qty 20'/40'/40'HC	Water tank	Set(s)	190/375/450	120/250/300	
	Condensing unit	Set(s)	896/1792/2016	896/1792/2016	

Test Conditions:

- 1.Chilled Water Performance (1): Air 35/24°C (DB/WB), Water 45/25°C (Inlet/Outlet);
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