

WC Series Industrial Water chiller

- 1 Water cooled water chiller provides cold water from 5°C ~35°C , which is widely applied in the plastic industry, electronics, plating, chemical, ultrasonic, printing and other industrial production lines. It can control the temperature exactly, which is requested by the modernized machinery production, as it greatly improved the production efficiency and quality.
- 2 Water cooled water chiller dissipates heat through the external circulating water (Cooling Tower), which features high cooling efficiency, small installation area, and low requirement on installation environment (indoor / outdoor). This chiller unit mainly supports multiple small and medium sized industrial equipments, which is an indispensable good partner of industrial production.
- 3 Water cooled water chiller is manufactured with internationally renowned accessories, and is exported to the world in batches with global warranty services. Customized design in power supply voltages and refrigerants are acceptable, which is in accordance with the working environment and the import & export standards of each country.



Fig1. Front View



Fig2. Back View

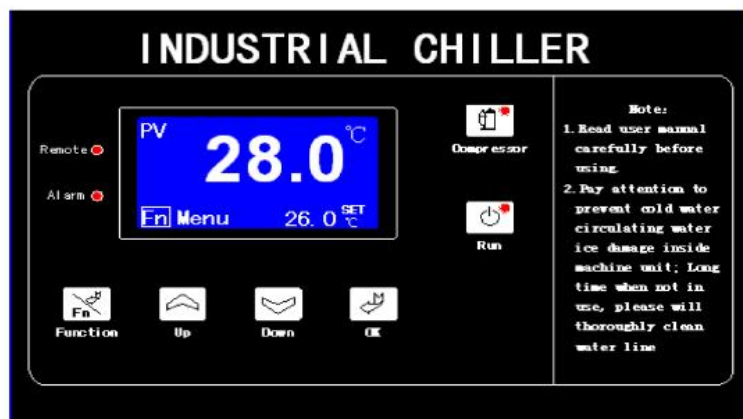
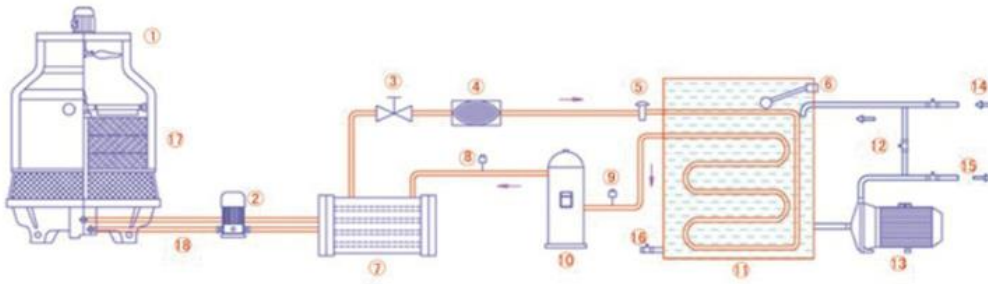


Fig3. Controller

Schematic of Water air cooled chiller



- 1) Cooling water tower
- 2) Circulating pump of water tower
- 3) Angle valve
- 4) Drying filter
- 5) Expansion valve
- 6) Automatic water makeup nozzle
- 7) Condenser
- 8) High pressure Switch
- 9) Low pressure Switch
- 10) Compressor
- 11) Evaporator
- 12) Bypass valve
- 13) Refrigerated water pump
- 14) Cooling water return
- 15) Cooling water outlet
- 16) Drain valve
- 17) Cooling water outlet
- 18) Cooling water inlet

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Item	Mode	WC-03	WC-05	WC-06	WC-08	WC-10	WC-12	WC-15	WC-20	WC-25	WC-30	WC-40	WC-50	WC-60
Nominal cooling capacity	kcal/h 50HZ/60HZ	8179 9942	12221 15394	15428 18593	20296 24338	25800 30960	30857 37152	36663 46182	52460 62092	58738 70606	83420 100104	104920 125904	117476 140954	159960 191952
	KW 50HZ/60HZ	9.51 11.56	14.21 17.9	17.94 21.62	23.6 28.3	30 36	35.88 43.2	42.63 53.7	61 72.2	68.3 82.1	97 116.4	122 146.4	136.6 163.9	186 223.2
Total input power	KW	2.61	4.02	4.58	6.05	7.29	9.16	11.31	15.4	17.4	24.28	31.9	35.9	46.06
Power supply voltage	3PH 380V 50HZ (200V/220V/415V 50HZ/60HZ)													
Refrigerant	Type	R22 (R134A/R407C/R410A/R404A)												
	Control Mode	Capillary			Expansion valve									
Compressor	Type	Hermetic Scroll type (Piston)												
	Power (KW)	2.24	3.27	3.83	2.65*2	3.27*2	3.83*2	3.27*3	6.6*2	7.6*2	10.14*2	6.6*4	7.6*4	10.14*4
Condenser	Type	Shell and Tube												
	Cooling fluid flow(m3/h)	2.1 2.5	3.5 4.2	3.6 4.4	5.2 6.1	6.75 7.4	7.9 9.3	10.7 11.7	13.9 16.3	15.8 18.6	20.5 22.7	27.8 33.35	31.6 37.9	40.9 49.08
	Inlet/outlet pipe	1"	1"	1"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"
Evaporator	Type	Water tank with coil (Shell and Tube)												
	Chilled fluid flow (m3/h)	1.64 1.99	2.58 3.08	3 3.7	4.1 4.9	4.9 6	5.89 7.06	8.35 10.02	10.3 12.11	11.76 14.13	16.7 20	20.6 24.72	23.52 28.22	31.88 38.26
	Tank volume (L)	60	60	60	140	180	180	320	320	320	400	640	640	770
	Inlet/outlet pipe	1"	1"	1"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	3"
Chilled water pump	Power (KW)	0.37	0.75	0.75	0.75	0.75	1.5	1.5	2.2	2.2	4	5.5	5.5	5.5
	Pump head (m)	20	20	20	20	20	20	20	20	20	20	20	20	20
Safety protection	Compressor overheating , over current, high and low pressure, over temperature , flow switch, phase sequence, phase-missing, exhaust overheating, anti-freezing.													
Dimension	L (mm)	890	890	890	1170	1170	1170	1700	1700	1700	1880	2100	2100	2200
	W (mm)	500	500	500	710	710	710	810	810	810	910	1100	1100	1150
	H (mm)	940	940	940	1310	1310	1310	1620	1620	1620	1820	1960	1960	2100
Weight	Kg	130	150	165	285	334	380	600	650	750	980	1250	1400	1500

Note: 1.nominal cooling capacity calculated according to:Inlet/outlet chilled fluid temperature : 12℃/7℃, Inlet/outlet cooling water temperature: 30℃/35℃.
 2.Working condition:The temperature range of chilled fluid is from 5℃ to 35℃ Temperature difference between inlet and outlet chilled fluid is from 3℃ to 8℃.
 The temperature range of cooling water from 18℃ to 30℃ Temperature difference between inlet and outlet cooling water is from 3.5℃ to 10℃.
 We reserve the right to modify the above information without further notice.