

TCA系列 风冷式冰水机

TCA Series Air Chillers

● 特点 Features

- 采用高品质压缩机及水泵，安全宁静、省电耐用。
 - 采用全电脑温控器，操作简洁，能准确地控制水温在 5-35℃。
 - 冷凝器及蒸发器设计独特，换热效果更佳。
 - 有电流过载保护，高低压控制及电子式时间延迟安全装置，当发生故障时及时发出警报及显示故障原因。
 - 内置304不锈钢保温水箱，经久耐用，清洗方便。
 - 设有逆相欠相保护和防冰保护。
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- To adopt superb compressors and pumps to ensure safe& quiet running, power saving and durable service life.
 - To employ microcomputer with easy operation which can control temperature within 5 to 35 precisely.
 - Unique design for condenser and heat-dispersion unit result in excellent heat-exchange effect.
 - To equip with electrical current overload protection, high & low-pressure switch, electronic timer delay safety device. It will alarm to display faulty while any malfunction occurs.
 - To adopt with internal 304 stainless steel insulated water tank with durable service life for easy cleaning & maintenance.
 - Complete safety devices including power reverse phase & power short phase and anti-freeze protection.



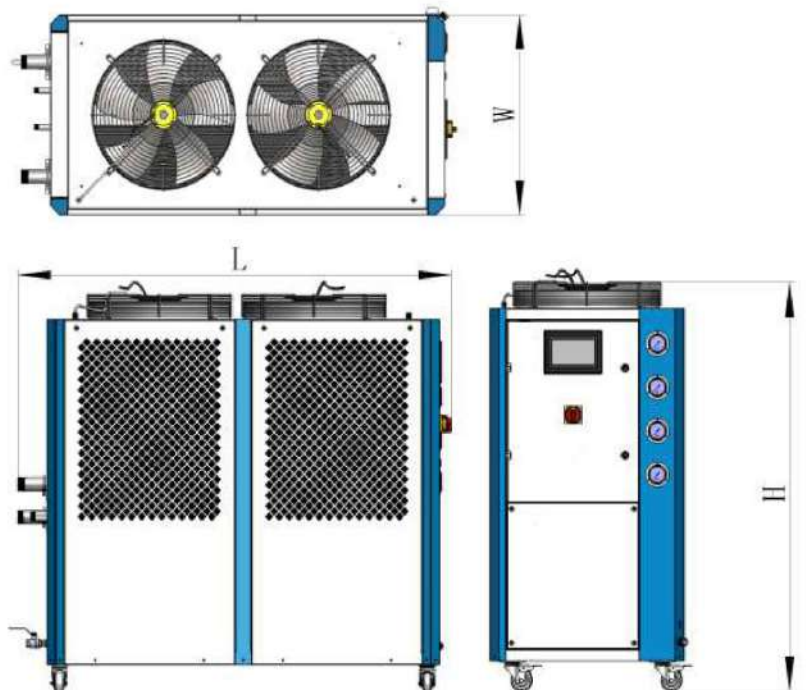
风冷式采用翅片式冷凝器，导热快，散热效果佳，无需提供冷却水。可提供5~35℃的冰水（温控精度 $\pm 2^{\circ}\text{C}$ ），压缩机功率从5HP~50HP，制冷能力可达13416~130720 Kcal/hr。

Air Chillers adopt fin condensers (without need of cooling water) with the features of rapid heat transmission and excellent heat dispersion. This series can be afforded cooling ranges from 5~35℃(temperature controlled accuracy at $\pm 2^{\circ}\text{C}$). The compressors' power range from 5HP~50HP and cooling

风冷壳管式冷水系统 Air Chillers Tube-in-shell Type

风冷盘管式冷水系统 Air Chillers Spiral Type

● 产品结构图 Product Structure Diagram



● 规格表 Type

产品型号Model		TCA-5	TCA-10	TCA-15C	TCA-20C	TCA-5T	TCA-10T	TCA-15T	TCA-20T	TCA-30T	TCA-40T	TCA-50T
用电规格 Power supply		3ph-380v/50hz										
总电气容量 Total power capacity (kw)		5.00	9.80	15.30	19.00	5.00	9.40	14.2	19.1	28.9	38.4	45.9
控制方式 Control method		PID控制 PID control										
制冷量 Refrigerating capacity	Kcal/h	12470	24940	37410	49880	12470	24940	37410	49880	74390	105350	123840
	kw	14.5	29	43.5	58	14.5	29	43.5	58	86.5	122.5	144
制冷剂 Refrigerant	名称 Name	R22/R407C/R410A										
压缩机 Compressor	类型 Type	全封闭涡旋式 Fully enclosed scroll										
	匹数 Power (HP)	5	10	15	20	5	10	15	20	30	40	50
冷凝器 Condenser	类型 Type	微通道式 Microchannel type			翅片式 Fin type							
	散热环境温度 Ambient temp	≤35℃										
风机 Fan	功率 Power (W)	130	414	800	800	180	450	600	800	800	2200	2200
	数量 Quantity	2	2	2	2	2	2	2	2	3	2	2
蒸发器 Evaporator	类型 Type	水箱盘管式 Water tank coil type					壳管式 Shell and tube type					
	水箱容量 Water tank capacity(L)	50	140	170	220	60	100	100	100	230	160	160
	水箱材质 Water tank material	PP			SUS304							
	冷冻进出水管 Chilled water inlet and outlet pipes	DN25	DN40	DN50	DN50	DN25	DN40	DN50	DN65	DN65	DN80	DN80
媒体泵 Medium Pump	冷冻水流量 Chilled water flow (m³/h)	2.49	4.99	7.48	9.98	2.49	4.99	7.48	9.98	14.88	21.07	24.77
	功率 Power(kW)	0.55	1.10	2.20	2.20	0.55	1.30	1.30	2.60	4.00	4.00	5.50
	最大流量 Maximum flow (L/min)	67	183.7	250	250	167	267	267	400	517	1150	1300
	最大扬程 Maximum lift (m)	28	30	25	25	30	33.5	33.5	42.5	41.2	21	26
保护功能 Protective function		高低压保护、过载保护、压缩机延时启动、液位过低报警、防冻保护（选配）、流量开关（选配）、热气旁通阀（选配） High and low pressure protection, overload protection, compressor delayed start, low liquid level alarm, antifreeze protection (optional), flow switch (optional), hot gas bypass valve (optional)										
产品颜色 Product color		SPCC白色烤漆（RAL7047）、SPCC蓝色烤漆（RAL5012） SPCC white paint (RAL7047), SPCC blue paint (RAL5012)										
产品净重 Product net weight (kg)		176	315	590	655	165	380	380	550	750	850	950

注1：产品规格若有变更，恕不另行通知。 We reserve right to change specifications without prior notice.

● 产品尺寸 Product Size

产品型号Model	TCA-5	TCA-10	TCA-15C	TCA-20C	TCA-5T	TCA-10T	TCA-15T	TCA-20T	TCA-30T	TCA-40T	TCA-50T
L(mm)	1200	1450	2000	2100	900	1250	1500	1750	1750	2200	2200
W(mm)	550	700	960	1000	550	750	800	800	800	1000	1000
H(mm)	1030	1400	1630	1730	950	1300	1300	1530	1680	1680	1680
包装体积 Packing volume(m³)	0.80	1.70	2.80	4.00	0.47	1.22	1.56	2.14	2.35	3.70	3.70
包装尺寸Packing size(cm)	140*55*103	165*70*140	220*96*163	230*100*173	90*55*95	125*75*130	150*80*130	175*80*153	175*80*168	220*100*168	220*100*168

注2：选配、选购功能整机尺寸会变化；非标机型尺寸另行通知。
Note 2: The dimensions of the optional and optional functions will change; the dimensions of non-standard models will be notified separately.
注3：产品规格如有变更，恕不另行通知。
Note 3: Product specifications are subject to change without prior notice.

TCW系列 水冷式冰水机

TCW Series Water Chillers

● 特点 Features

- 采用高品质压缩机及水泵，安全宁静、省电耐用。
- 采用全电脑温控器，操作简洁，能准确地控制水温在5~35℃。
- 冷凝器及蒸发器设计独特，换热效果更佳。
- 有电流过载保护，高低压控制及电子式时间延迟安全装置，当发生故障时及时发出警报及显示故障原因。
- 内置304不锈钢保温水箱，经久耐用，清洗方便。
- 设有逆相欠相保护和防冰保护。

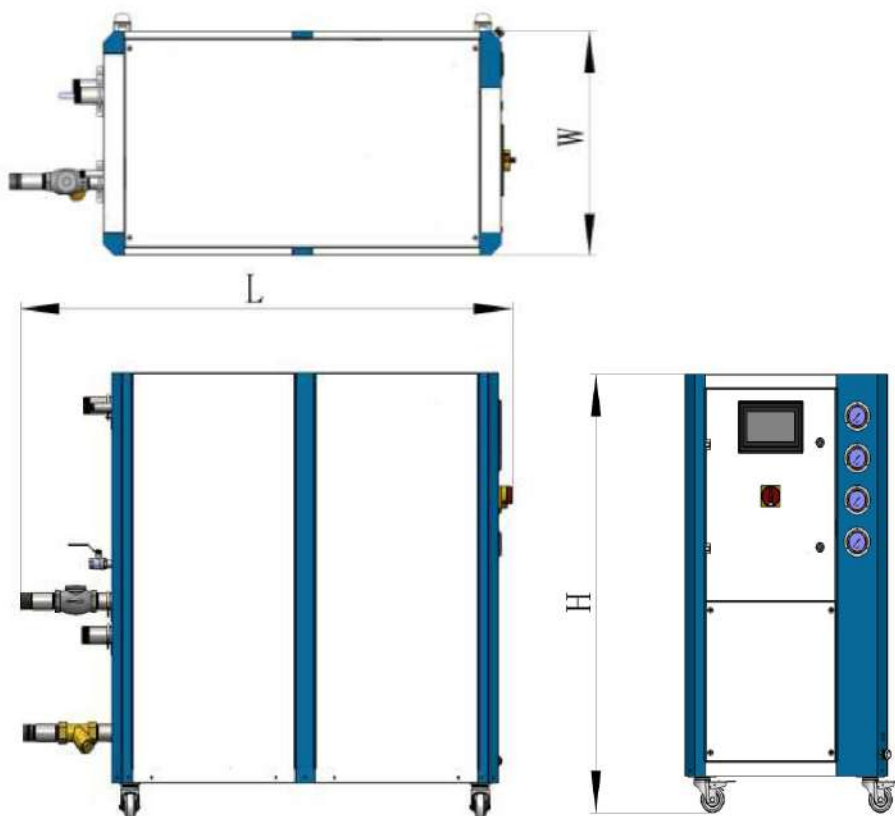
- To adopt superb compressors and pumps to ensure safe & quiet running, power saving and durable service life.
- To employ microcomputer with easy operation which can control temperature within 5 to 35 precisely.
- Unique design for condenser and heat-dispersion unit result in excellent heat-exchange effect.
- To equip with electrical current overload protection, high & low-pressure switch, electronic timer delay safety device. It will alarm to display faulty while any malfunction occurs.
- To adopt with internal 304 stainless steel insulated water tank with durable service life for easy cleaning & maintenance.
- Complete safety devices including power reverse phase & power short phase and anti-freeze protection.



水冷式冰水机采用壳管式冷凝器，导热快，散热效果佳。可提供5~35℃的冰水（温控精度 $\pm 2^{\circ}\text{C}$ ），压缩机功率从5HP~50HP，制冷能力可达13416~130720 Kcal/hr。

Water Chillers adopt shell-shape condensers with the features of rapid heat transmission and excellent heat dispersion. This series can be afforded cooling ranges from 5~35 $^{\circ}\text{C}$, even lower to 3 $^{\circ}\text{C}$ (temperature controlled accuracy at $\pm 1^{\circ}\text{C}$). The compressors' power range from 5HP~50HP and cooling capacities range from 13416~130720 Kcal/hr.

● 产品结构图 Product Structure Diagram



● 规格表 Type

产品型号Model		TCW-5	TCW-10	TCW-15C	TCW-20C	TCW-5T	TCW-10T	TCW-15T	TCW-20T	TCW-25T	TCW-30T	TCW-40T	TCW-50T
用电规格 Power supply		3ph-380v/50hz											
总电气容量 Total power capacity (kw)		4.64	9.40	13.70	17.50	4.70	8.50	13.00	17.50	21.20	26.50	34.00	41.50
控制方式 Control method		PID控制 PID control											
制冷量 Refrigerating capacity	Kcal/h	12470	24940	37410	49880	12470	24940	37410	49880	62092	74390	105350	123840
	kw	14.5	29	43.5	58	14.5	29	43.5	58	72.2	86.5	122.5	144
制冷剂 Refrigerant	名称 Name	R22/R407C/R410A											
压缩机 Compressor	类型 Type	全封闭涡旋式 Fully enclosed scroll											
	匹数 Power (HP)	5	10	15	20	5	10	15	20	25	30	40	50
冷凝器 Condenser	类型 Type	板式 Plate type		壳管式 Shell and tube type									
	散热水管径 Radiation water pipe diameter(inch)	DN25	DN40	DN50	DN50	DN25	DN40	DN50	DN65	DN65	DN65	DN80	DN80
	散热水进出水压差 Water pressure difference between inlet and outlet of radiating water	≥1.5 MPa											
	散热水流量 Dissipation water flow(m³/h)	3.12	6.24	9.35	12.47	3.12	6.24	9.35	12.47	15.52	18.60	26.34	30.96
蒸发器 Evaporator	类型 Type	水箱盘管式 Water tank coil type				壳管式 Shell and tube type							
	水箱容量 Water tank capacity(L)	50	140	170	220	60	120	180	230	130	130	240	240
	水箱材质 Water tank material	PP		SUS304									
	冷冻进出水管 Chilled water inlet and outlet pipes	DN25	DN40	DN50	DN50	DN25	DN40	DN50	DN65	DN65	DN65	DN80	DN80
	冷冻水流量 Chilled water flow (m³/h)	2.49	4.99	7.48	9.98	2.49	4.99	7.48	9.98	12.42	14.88	21.07	24.77
媒体泵 Medium Pump	功率 Power(kW)	0.55	1.1	2.2	2.2	0.55	1.30	1.30	2.60	4.00	4.00	4.00	5.50
	最大流量 Maximum flow (L/min)	67	183.7	250	250	167	267	267	400	517	517	1150	1300
	最大扬程 Maximum lift (m)	28	30	25	25	30	33.5	33.5	42.5	41.2	41.2	21	26
保护功能 Protective function		高低压保护、过载保护、压缩机延时启动、液位过低报警、防冻保护（选配）、流量开关（选配）、热气旁通阀（选配） High and low pressure protection, overload protection, compressor delayed start, low liquid level alarm, antifreeze protection (optional), flow switch (optional), hot gas bypass valve (optional)											
产品颜色 Product color		SPCC白色烤漆（RAL7047）、SPCC蓝色烤漆（RAL5012） SPCC white paint (RAL7047), SPCC blue paint (RAL5012)											
产品净重 Product net weight (kg)		150	281	410	520	160	280	380	480	580	680	750	850

注1：产品规格若有变更，恕不另行通知。 We reserve right to change specifications without prior notice.

● 产品尺寸 Product Size

产品型号Model	TCW-5	TCW-10	TCW-15C	TCW-20C	TCW-5T	TCW-10T	TCW-15T	TCW-20T	TCW-25T	TCW-30T	TCW-40T	TCW-50T
L(mm)	1000	1200	1640	1930	900	1250	1500	1750	1750	1750	2200	2200
W(mm)	500	650	800	800	550	750	800	800	800	800	1000	1000
H(mm)	935	1200	1320	1600	950	1300	1300	1530	1530	1680	1680	1680
包装体积 Packing volume(m³)	0.6	1.1	2	2.8	0.5	1.3	1.6	2.2	2.2	2.4	3.7	3.7
包装尺寸Packing size(cm)	120*50*93.5	140*65*120	184*80*132	213*80*160	90*55*95	1250*75*130	150*80*130	175*80*153	175*80*153	175*80*168	220*100*168	220*100*168

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