



Air Cooled Scroll Chiller

Capacity : 1.65 KW to 168.6 KW

Advantage

Winter-Tech Air cooled Chiller is widely used in plastic industry, electronics, plating, chemical industry, ultrasonic wave cooling, printing and others. This kind of air cooled Chiller can precisely control the temperature requested by the modernized machinery production, and it greatly improved the production efficiency and quality. Winter-Tech air cooled Chiller doesn't require cooling tower, which is easy to install and remove.

Winter-Tech Air Cooled Chiller is the best choice for the modernized industry and it features easy operation, reasonable design, high quality and various models: Air Cooled Environment Chiller, Air Cooled Low Temperature Chiller, Air Cooled Screw Chiller. Also we offer a wide range of standard Air Cooled Chillers, which can be found in following specification tables, but standard chillers may not always fit your unique requirements. Our application specialists can suggest units that are customized to meet your unique needs.



Durable Scroll Compressor (Copeland, Dunfoss, Hanbell)

It has long-lasting, extremely low power consumption
Will make it easier for users in the replacement because of spare parts available in the market

Safety Device

- ✓ Refrigerant High Pressure Switch Protection
- ✓ Refrigerant Low Pressure Switch Protection
- ✓ Freeze up Protection
- ✓ Overload Motor Compressor ,Pump & Fan
- ✓ Water Flow Protection
- ✓ Phase Reverse & Phase Fault Protection

Technical Parameter

Item	Model	0.5 A	1 A	1.5 A	2 A	2.5 A	3 A	4 A	5 A	6 A	8 AD	10 AD	12 AD	15 AD	
		Cooling Capacity	Kcal/h 50HZ/60Hz	1419	2451	3182	4833	5848	7181	9288	11988	14534	18576	23994	29068
1703	2941			3484	5800	7018	8617	11146	14386	17441	22291	28793	34882	45924	
KW 50HZ/60Hz	1.65		2.85	3.7	5.62	6.8	8.35	10.8	13.94	16.9	21.6	27.9	33.8	44.5	
	1.98		3.42	4.4	6.74	8.2	10.02	12.96	16.73	20.28	25.92	33.48	40.56	53.4	
Input Power	KW	0.88	1.35	2	2.25	2.66	3.27	4.07	5.75	6.45	8.25	11.5	12.9	17.45	
Current	A	5.4	8.2	12	13.6	6.6	8.2	10.1	13.8	15.5	20	27.9	31.3	42.4	
Power Source		1PH/3PH~220V/380V~50HZ/60HZ					3PH~380V/415V~50HZ/60HZ (3PH~200V/220V~50HZ/60HZ)								
Refrigerant	Type	R22/R407C/134a/404A/410A													
	Control	Capillary/External balance thermal expansion valve													
Compressor	Type	Hermatic rotary/scoll					Hermatic scroll (piston)								
	Power (KW)	0.45	0.89	1.3	1.73	2.1	2.7	3.5	4.55	5.25	3.5 x 2	4.55 x 2	5.25 x 2	7 x 2	
Condensor	Type	Efficient finned cooper tube with alumunium + low noise external rotor fan													
	Air flow (m3/h)	750	1000	1500	2000	2500	3000	4000	5000	6000	8000	10000	12000	15000	
	Air Blower (KW)	0.06	0.09	0.15	0.15	0.19	0.14 x 2	0.14 x 2	0.19 x 2	0.19 x 2	0.25 x 2	0.45 x 2	0.45 x 2	0.6 x 2	
Evaporator	Type	Tank coil/ shell and tube type/ Plate type heat exchanger													
	Chilled water (m3/h)	0.28	0.49	0.64	0.97	1.12	1.44	1.86	2.4	2.91	3.71	4.8	5.81	7.65	
		0.34	0.59	0.76	1.16	1.4	1.72	2.23	2.88	3.49	4.46	5.76	7	9.18	
	Water tank (L)	10.6	18.3	27	27	50	50	60	60	110	120	200	200	270	
Inlet/outlet pipe (inch)	½	½	½	½	1	1	1	1	1	1-1 ½	2	2	2		
Water pump	Power (KW)	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.75	0.75	0.75	1.5	1.5	2.2	
	Max Lift (m)	22	22	22	22	22	22	22	30	30	25	25	25	28	
	Max Flow (m ³)	5.4	5.4	5.4	5.4	5.4	5.4	5.4	8.1	8.1	8.1	13.5	13.5	25.2	
Safety device		Compressor overheating protection, overcurrent protection, high and low pressure protection, overtemperature protection, traffic protection, phase sequence/phase loss protection, low level protection, anti-freezing protection.													
Dimension	Length (mm)	550	550	600	600	720	980	980	1150	1150	1350	1500	1500	1860	
	Width (mm)	350	450	500	500	550	520	520	560	560	680	760	760	850	
	Height (mm)	695	845	985	985	1350	1170	1170	1215	1215	1530	1660	1660	1900	
Wight	Kg	45	62	85	95	125	152	175	185	215	283	345	382	580	

Note:

1. Rate cooling capacity is based on: the chilled water inlet and outlet temperature 12°C/ 7°C; cooling air inlet and outlet temperature.30°C /35°C
2. Scope of work: chilled water temperature range: 5°C to 30 °C; chilledwater inlet and outlet temperature difference.: 3°C to 8°C.
3. The ambient temperature of condensation not higer than 35 °C (non standard chiller ambient temperature of condensation can reach maximum 55°C, need to order production).

Model		15 AT	20AD	20 AF	25 AD	25 AF	30 AD	30 AT	40 AD	40 AF	50 AD	50 AF	60 AD
Cooling Capacity	Kcal/H	36120	49966	47988	58480	58136	74734	74922	98040	99760	119024	116960	114996
	50HZ/60Hz	43344	59959	57586	70176	69763	89681	89990	117648	119712	142829	140352	173995
	KW	42	58.1	55.8	68	67.6	86.9	87.2	114	116	138.4	136	168.6
	50HZ/60Hz	50.4	69.72	66.96	81.6	81.12	104.28	104.64	136.8	139.2	166.08	163.2	202.3
Input Power	KW	17.1	21.73	22	25.4	24.8	33.39	33.1	44.91	43.3	57.3	54	65
Current	A	43.2	52.7	53.3	63.7	61.3	81	80.2	109	106	135.5	128.5	135
Power Source		3PH~380V/415V~50HZ/60HZ (3PH~200V/220V~50HZ/60HZ)											
Refrigerant	Type	R22/R407C/134a/404A/410A											
	Control	Capillary/Rxternal balance thermal expansion valve											
Compressor	Type	Hermetic scroll (piston)											
	Power (KW)	4.55 x 3	8.96 x 2	4.55 x 4	10.8 x 2	5.25 x 4	13.62 x 2	8.96 x 3	18.78 x 2	8.96 x 4	23.6 x 2	10.8 x 4	27.4 x 2
Condensor	Type	Efficient finned cooper tube with alumunium + low noise external rotor fan											
	Air flow (m3/h)	15000	20000	20000	25000	25000	30000	30000	40000	40000	50000	50000	60000
	Air Blower (KW)	0.6 x 2	0.78 x 2	0.78 x 2	0.78 x 2	0.78 x 2	0.42 x 6	0.42 x 6	0.6 x 6	0.6 x 6	0.78 x 6	0.78 x 6	0.78 x 6
Evaporator	Type	Tank coil/ shell and tube type/ Plate type heat exchanger											
	Chilled water (m3/h)	7.22	10	9.6	11.69	11.62	14.94	15	19.6	19.95	23.8	23.4	29
		8.67	11.99	11.51	14.03	13.95	17.93	18	23.52	23.94	28.6	28.1	34.8
	Water tank (L)	270	350	350	350	350	420	420	580	580	580	580	580
	Inlet/outlet pipe (inch)	2	2	2	2-2 ½	2-2 ½	2-2 ½	2-2 ½	3	3	3	3	3
Water pump	Power (KW)	2.2	2.2	2.2	2.2	2.2	4	4	4	4	5.5	5.5	5.5
	Max Lift (m)	28	28	28	28	28	30	30	30	30	32	32	32
	Max Flow (m ³)	25.2	25.2	25.2	25.2	25.2	36	36	36	36	40	40	40
Safety device		Compressor overheating protection, overcurrent protection, high and low pressure protection, overtemperature protection, traffic protection, phase sequence/phase loss protection, low level protection, anti-freezing protection.											
Dimension	Length (mm)	1860	2020	2020	2020	2020	2200	2200	2350	2350	2600	2600	2600
	Width (mm)	850	950	950	950	950	1150	1150	1350	1350	1500	1500	1500
	Height (mm)	1900	2000	2000	2000	2000	1980	1980	2000	2000	2100	2100	2100
Wight	Kg	580	650	650	810	810	890	890	1112	1112	1320	1320	1320

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1. Rate cooling capacity is based on: the chilled water inlet and outlet temperature 12 °C / 7 °C; cooling air inlet and outlet temperature. 30 °C / 35 °C
 2. Scope of work: chilled water temperature range: 5 °C to 30 °C; chilled water inlet and outlet temperature difference.: 3 °C to 8 °C.
 3. The ambient temperature of condensation not higher than 35 °C (non standard chiller ambient temperature of condensation can reach maximum 55 °C, need to order production).

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