

ALTECH

Air-Cooled Type Industrial Chiller

High Efficiency / Stable Operation



Special Features

- Without water-cooling tower for easier installation and higher mobility. It is favourable when there is lack of water supply or when water-cooling tower is not applicable.
- Low noise fan motor provides excellent cooling and condensation effects. The throttle unit is stable and finished with high-grade anti-rust treatment.
- Equipped with a powerful compressor imported from U.S. and Europe. The compressor operates smoothly and quietly at high EER value.

Working condition for nominal cooling capacity of Industrial Chiller.

Air-Cooled Type

Chilled Water		Ambient Temperature	
Inlet Temperature	Outlet Temperature	Dry-Bulb Temperature	Wet-Bulb Temperature
15°C	10°C	35°C	24°C

Coefficient chart for adjusting the cooling capacity of Air-cooled Industrial Chiller.

Chilled Water Outlet Temperature °C	Ambient Dry-Bulb Temperature °C				
	25	30	35	40	43
3	0.89	0.85	0.80	0.75	0.72
5	0.95	0.90	0.85	0.80	0.77
7	1.01	0.96	0.91	0.86	0.83
9	1.07	1.02	0.97	0.91	0.88
10	1.10	1.05	1.00	0.94	0.91
11	1.14	1.09	1.03	0.97	0.94
13	1.20	1.15	1.09	1.03	1.00
15	1.26	1.21	1.15	1.09	1.06
17	1.31	1.27	1.21	1.15	1.12
19	1.37	1.33	1.27	1.21	1.18
20	1.40	1.36	1.30	1.24	1.21

Specification

Technical parameters table of Air-cooled Industrial Chiller (part1)

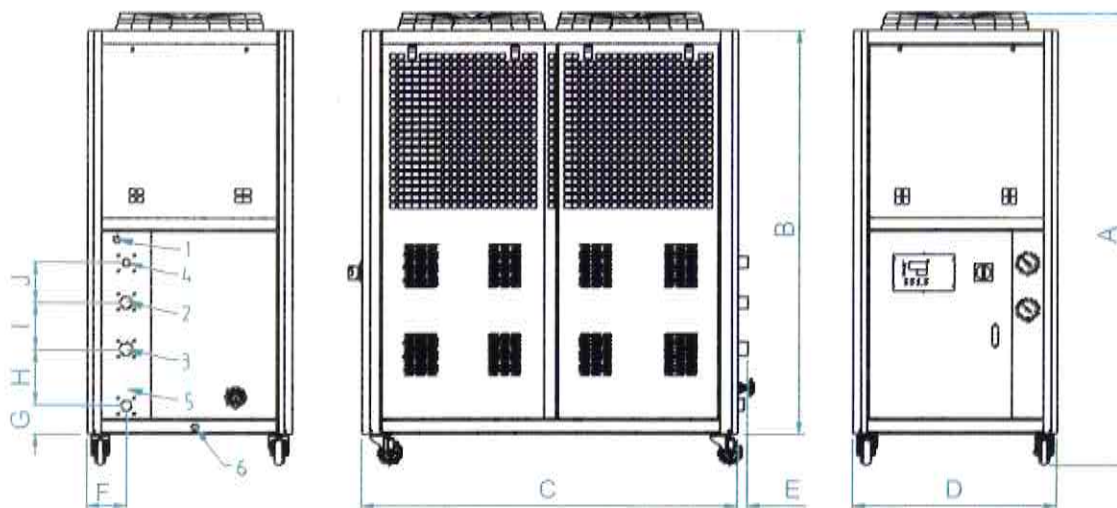
Parameter		Model	HT-1/2A	HT-01A	HT-02A	HT-03A	HT-04A	HT-05A	HT-06A	HT-08AD
Cooling Capacity	KW		1.53	2.94	5.67	8.93	10.90	13.95	16.90	21.80
	50HZ/60HZ		1.79	3.44	6.63	9.82	12.75	16.32	19.77	25.51
	kcal/h		1316	2528	4872	7216	9374	11990	14530	18748
	50HZ/60HZ		1540	2958	5701	8442	10968	14028	17000	21935
Total Input	KW		0.68	1.31	2.6	3.6	4.5	5.5	6.6	8.6
Max. Running Current	A		4.1	8	15.8	8.8	10.9	13.4	16	20.9
Power Supply			1N ~ 220V 50HZ / 60HZ			3N ~ 380V / 415V 50HZ / 60HZ				
Refrigerant	Name		R407C							
	Charge	Kg	0.6	0.8	1.8	2.7	3.5	4.3	5	3.5 x 2
	Control Type		Capillary Tube							
Compressor	Type		Hermetic Rotary			Hermetic Scroll or Piston				
	Motor	KW	0.55	0.75	1.5	2.25	3	3.75	4.5	3 x 2
Air Flow		m³/h	800	1000	2000	3000	4000	5000	6000	8000
Chilled Water	Flow	m³/h	0.26	0.51	0.97	1.44	1.87	2.40	2.91	3.75
			0.31	0.59	1.14	1.68	2.19	2.81	3.41	4.39
	Tank	m³	0.022	0.028	0.038	0.038	0.065	0.065	0.11	0.11
In/Out Pipe Size			G1/2"	G1/2"	G3/4"	G3/4"	G3/4"	G1"	G1"	G1-1/2"
Pump	Motor	Kw	0.375	0.375	0.55	0.55	0.55	0.75	0.75	0.75
	Pressure	KPa	180	180	250	242	242	290	290	290
Dimension	Length	mm	600	600	820	945	945	1035	1200	1470
	Width	mm	400	400	460	550	550	610	650	710
	Height	mm	940	940	1170	1370	1370	1385	1480	1700
Weight		kg	45	60	120	130	160	170	250	270

Technical parameter table of Air-cooled Industrial Chiller (part 2)

Parameter			Model	HT-10AD	HT-12AD	HT-15AD	HT-20AD	HT-25AD	HT-30AD	HT-40AD	HT-50AD	HT-60AD
Cooling Capacity	KW		28.01	33.79	44.15	59.08	71.72	87.20	113.58	135.49	181.68	
	50HZ/60HZ		32.78	39.53	51.65	69.12	83.91	102.02	132.89	158.52	218.02	
	kcal/h		24089	29059	37965	50805	61683	74992	97675	116521	156249	
50HZ/60HZ			18184	33999	44419	59442	72169	87741	114280	136330	187499	
Total Input	KW		11	13.3	17	22.8	27.7	33.7	42.8	51.1	68.8	
Max. Running Current	A		26.7	32.3	41.3	55.4	63.1	76.8	97.5	116.5	143.1	
Power Supply			3N ~ 380V / 415V 50HZ / 60HZ									
Refrigerant	Name		R407C									
	Charge	Kg	4.3 x 2	5 x 2	6.5 x 2	8.5 x 2	10.5 x 2	12.5 x 2	17 x 2	20.5 x 2	24.9 x 2	
	Control Type		Capillary Tube	External Balanced Thermal Expansion Valve								
Compressor	Type		Hermetic Scroll or Piston									
	Motor	KW	3.75 x 2	4.5 x 2	5.5 x 2	7.5 x 2	9.4 x 2	11.3 x 2	15 x 2	18.8 x 2	22.5 x 2	
Air Flow		m³/h	1000	12000	15000	20000	25000	30000	40000	48000	66000	
Chilled Water	Flow	m³/h	4.82 5.64	5.81 6.80	7.60 8.89	10.16 11.89	12.34 14.44	15.00 17.55	19.53 22.85	23.30 27.27	30.52 36.63	
	Tank	m³	0.188	0.188	0.285	0.285	0.405	0.405	0.61	0.61	0.7	
	In/Out Pipe Size		G2”	G2”	G2”	G2”	G2-1/2”	G2-1/2”	G3”	G3”	G3”	
Pump	Motor	Kw	1.5	1.5	1.5	2.2	2.2	4	4	4	4	
	Pressure	KPa	205	205	205	220	220	250	250	250	250	
Dimension	Length	mm	1470	1470	1680	1680	2080	2080	2565	3556	3556	
	Width	mm	710	800	890	940	1000	1000	1220	2200	2200	
	Height	mm	1700	1780	1900	1960	2055	2055	2310	2210	2210	
Weight		kg	350	370	520	590	790	880	1100	1280	1420	

Exterior Dimension

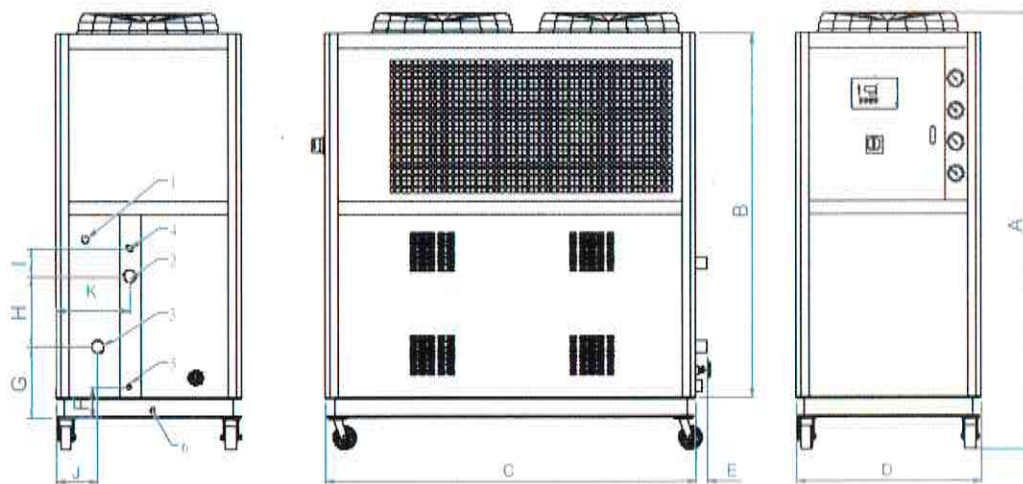
Dimension of Air-cooled Industrial Chiller (HT-02A ~ HT-05A)



Mark	Name	Model	HT-02A	HT-03A	HT-04A	HT-05A
1	Power Cable Connection		3/4"	3/4"	3/4"	3/4"
2	Chilled Water Inlet		3/4"	3/4"	3/4"	1"
3	Chilled Water Outlet		3/4"	3/4"	3/4"	1"
4	Water Supply		1/2"	1/2"	1/2"	1/2"
5	Water Tank Drain		1/2"	1/2"	1/2"	1/2"
6	Sump Drain		1/2"	1/2"	1/2"	1/2"

Model	Dimensions (mm)									
	A	B	C	D	E	F	G	H	I	J
HT-02A	1170	1016	820	460	70	90	80	110	140	150
HT-03A	1370	1220	945	550	70	115	80	175	175	175
HT-04A	1370	1220	945	550	70	115	80	175	175	175
HT-05A	1385	1220	1035	610	70	110	80	150	200	150

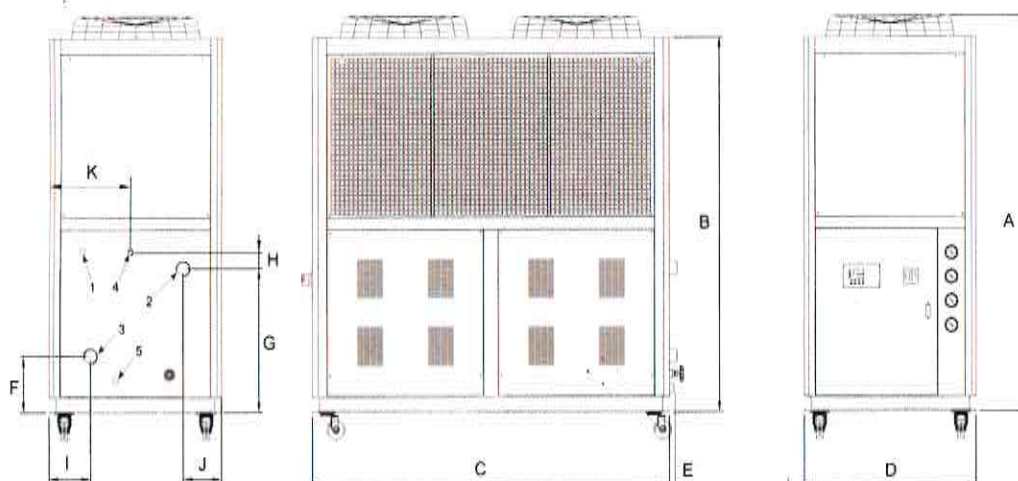
Dimension of Air-cooled Industrial Chiller (HT-06A ~ HT-12AD)



Mark	Name	Model	HT-06A	HT-08AD	HT-10AD	HT-12AD
1	Power Cable Connection		1-1/2"	1-1/2"	1-1/2"	1-1/2"
2	Chilled Water Inlet		1"	1-1/2"	2"	2"
3	Chilled Water Outlet		1"	1-1/2"	2"	2"
4	Water Supply		1/2"	1/2"	1/2"	1/2"
5	Water Tank Drain		3/4"	3/4"	3/4"	3/4"
6	Sump Drain		1/2"	1/2"	1/2"	1/2"

Model	Dimensions (mm)										
	A	B	C	D	E	F	G	H	I	J	K
HT-06A	1480	1300	1200	650	75	130	295	130	135	125	125
HT-08AD	1700	1475	1470	710	75	90	155	390	160	180	360
HT-10AD	1700	1475	1470	710	75	90	155	390	160	180	360
HT-12AD	1780	1600	1470	800	75	90	155	390	160	180	360

Dimension of Air-cooled Industrial Chiller (HT-15AD ~ HT-60AD)



Mark	Name	Model	HT-15AD	HT-20AD	HT-25AD	HT-30AD	HT-40AD	HT-60AD
1	Power Cable Connection		1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"
2	Chilled Water Inlet		2"	2"	2-1/2"	2-1/2"	3"	3"
3	Chilled Water Outlet		2"	2"	2-1/2"	2-1/2"	3"	3"
4	Water Supply		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
5	Water Tank Drain		1"	1"	1"	1"	1"	1"

Model	Dimensions (mm)										
	A	B	C	D	E	F	G	H	I	J	K
HT-15AD	1900	1655	1680	890	75	180	445	280	190	190	625
HT-20AD	1960	1750	1955	940	75	180	445	280	190	190	625
HT-25AD	2055	1925	2080	1000	75	225	445	150	150	150	350
HT-30AD	2055	1925	2080	1000	75	225	445	150	150	150	350
HT-40AD	2312	2180	2565	1200	75	225	445	150	150	150	350
HT-50AD	2310	2180	3556	2200	75	225	445	150	150	150	350