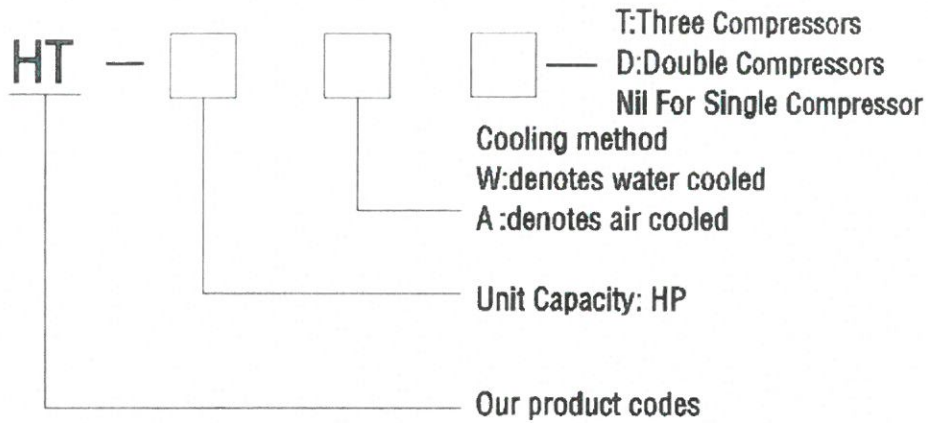


2) Notation of Product Model



Example of model notations :

- 1) HT-20W represents the water-cooled industrial chiller unit with an internal compressor of rated power 20HP .
- 2) HT-12A represents the air-cooled industrial chiller unit with an internal compressor of rated power 12HP .

3) Working condition for nominal cooling capacity of industrial chiller

1) Water-Cooled Type

Chilled Water		Cooling Water	
Inlet Temperature	Outlet Temperature	Inlet Temperature	Outlet Temperature
15°C	10°C	30°C	35°C

2) 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 at Different working condition

1) Coefficient chart for adjusting the cooling capacity of Water-cooled Industrial Chiller

Chilled Water Outlet Temperature °C	Cooling Water Outlet Temperature °C				
	25	30	35	37	40
3	0.88	0.84	0.80	0.79	0.77
5	0.94	0.90	0.86	0.84	0.82
7	0.99	0.96	0.92	0.90	0.87
9	1.05	1.01	0.97	0.95	0.92
10	1.08	1.04	1	0.98	0.95
11	1.11	1.07	1.03	1.01	0.98
13	1.17	1.13	1.09	1.07	1.04
15	1.23	1.19	1.15	1.13	1.09
17	1.28	1.25	1.20	1.18	1.15
19	1.34	1.31	1.26	1.24	1.20
20	1.37	1.34	1.29	1.27	1.23

2) 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	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

5) Specifications

1) Technical parameters table of Air-cooled Industrial Chiller

Parameter			Model		HT-1/2A	HT-01A	HT-02A	HT-03A	HT-04A	HT-05A	HT-06A	HT-08AD	
			KW		1.53	2.94	5.67	8.39	10.90	13.95	16.90	21.80	
Cooling Capacity	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			
Maximum 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		<i>R407C</i>								
	Charge	kg	0.8	0.8	1.8	2.7	3.5	4.3	5	3.5 x 2			
Compressor			Control Type		Capillary Tube								
	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			m ³ /h	800	1000	2000	3000	4000	5000	6000	8000		
Chilled Water	Flow	m ³ /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	m ³	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	0.37	0.37	0.37	0.55	0.55	0.75	0.75	0.75			
	Pressure	KPa	210	210	210	250	250	250	250	220			
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				

5) Specifications

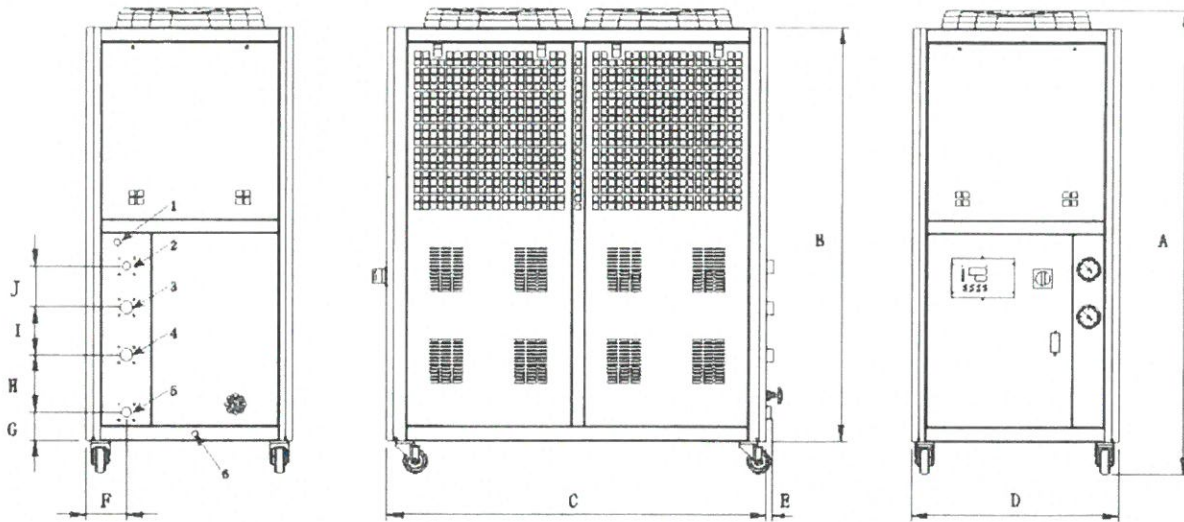
2) Technical parameters table of Air-cooled Industrial Chiller

Parameter		Model	HT-10AD	HT-12AD	HT-15AT	HT-20AD	HT-25AD	HT-30AT	HT-35AT	HT-40AD	HT-45AT	HT-50AD	HT-60AD	
Cooling Capacity	KW		28.01	33.79	44.15	59.08	71.72	87.20	102	113.58	127.78	135.49	161.68	
	50HZ/60HZ		32.78	39.53	51.85	69.12	83.91	102.02	122.4	132.89	153.34	158.52	218.02	
	kcal/h		24089	29059	37965	50805	61683	74992	87720	97675	109891	116521	156249	
	50HZ/60HZ		28184	33999	44418	56442	72169	87741	105264	114280	131872	138330	187499	
Total Input	KW		11	13.3	17	22.8	27.7	33.7	36	42.8	45	51.1	68.8	
Maximum Running Current	A		26.7	32.3	41.3	55.4	63.1	76.8	82	97.5	100.3	116.5	143.1	
Power Supply			3N ~ 380V / 415V 50HZ / 60HZ											
Refrigerant	Name		R407c											
	Charge	kg	4.3 x 2	5 x 2	4.3 x 3	8.5 x 2	10.5 x 2	8 x 3	10x3	17 x 2	12x3	20.5 x 2	24.9 x 2	
Control Type			Capillary Tube			External Balanced Thermostatic Valve								
Compressor	Type		Hermetic Scroll or Piston											
	Motor	KW	3.75 x 2	4.5 x 2	3.75 x 3	7.5 x 2	9.4 x 2	7.5 x 3	9x3	15 x 2	11.25x 3	18.8 x 2	22.5 x 2	
Air Flow	m ³ /h		10000	12000	15000	20000	25000	30000	35000	40000	45000	48000	68000	
Chilled Water	Flow	m ³ /h	4.82	5.81	7.60	10.16	12.34	15.00	17.5	19.53	22	23.30	30.52	
			5.84	6.80	8.89	11.89	14.44	17.55	21.1	22.85	26.4	27.27	36.83	
	Tank	m ³	0.188	0.188	0.285	0.285	0.405	0.405	0.5	0.61	0.61	0.61	0.7	
	In/Out Pipe Size		G2"	G2"	G2"	G2"	G2-1/2"	G2-1/2"	G3"	G3"	G3"	G3"	G3"	
Pump	Motor	KW	1.5	1.5	1.5	2.2	2.2	4	4	4	4	4	4	
	Pressure	KPa	200	200	200	220	220	250	250	250	250	250	250	
Dimension	Length	mm	1470	1470	1680	1955	2080	2080	3600	3600	3600	3600	3600	
	Width	mm	710	800	890	940	1000	1000	2100	2100	2100	2100	2100	
	Height	mm	1700	1780	1900	1960	2055	2055	2070	2070	2070	2070	2070	
Weight	kg		350	370	520	590	790	880	1000	1100	1200	1280	1420	

6) Exterior Dimension

1) Dimension of Air-cooled Industrial Chiller

HT-02A~HT-05A



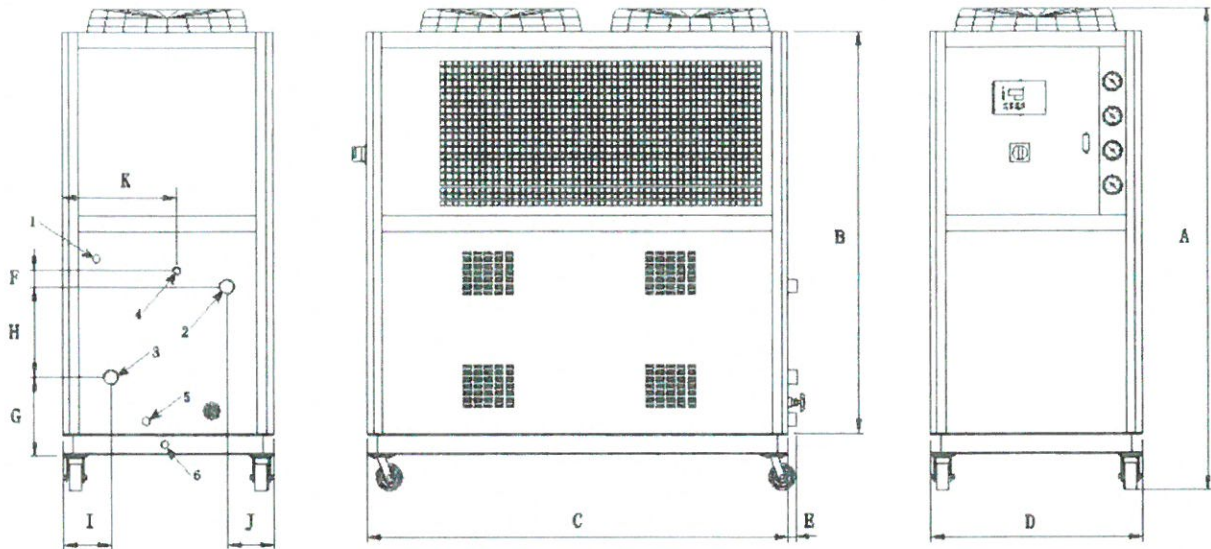
Mark	Name	Model	HT-02A	HT-03A	HT-04A	HT-05A
1	Power Cable Connection		3/4"	3/4"	3/4"	3/4"
2	Chilled Water Inlet		3/4"	3/4"	3/4"	1"
3	Chilled Water Outlet		3/4"	3/4"	3/4"	1"
4	Water Supply		1/2"	1/2"	1/2"	1/2"
5	Water Tank Drain		1/2"	1/2"	1/2"	1/2"
6	Sump Drain		1/2"	1/2"	1/2"	1/2"

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

6) Exterior Dimension

1) Dimension of Air-cooled Industrial Chiller

HT-06A~HT-12AD



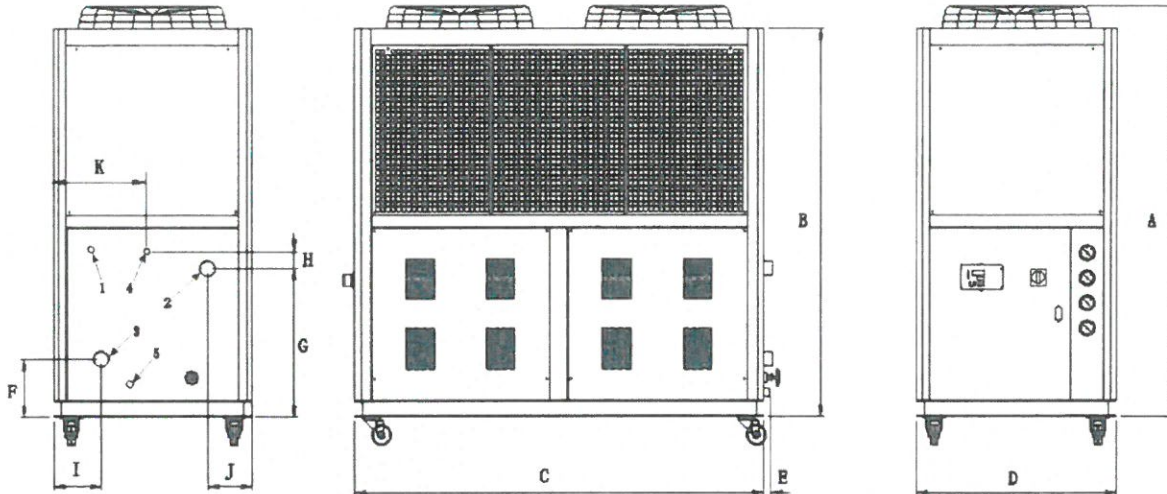
Mark	Name	Model	HT-06A	HT-08AD	HT-10AD	HT-12AD
1	Power Cable Connection		1-1/2"	1-1/2"	1-1/2"	1-1/2"
2	Chilled Water Inlet		1"	1-1/2"	2"	2"
3	Chilled Water Outlet		1"	1-1/2"	2"	2"
4	Water Supply		1/2"	1/2"	1/2"	1/2"
5	Water Tank Drain		3/4"	3/4"	3/4"	3/4"
6	Sump Drain		1/2"	1/2"	1/2"	1/2"

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

6) Exterior Dimension

1. Dimension of Air-cooled Industrial Chiller

HT-15AD ~ HT-60AD



Mark	Name	Model								
		HT-15AD	HT-20AD	HT-25AD	HT-30AT	HT-35AT	HT-40AD	HT-45AT	HT-50AD	HT-60AD
1	Power Cable Connection	1-1/2"	1-1/2"	1-1/2"	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"	3"	3"
3	Chilled Water Outlet	2"	2"	2-1/2"	2-1/2"	3"	3"	3"	3"	3"
4	Water Supply	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
5	Water Tank Drain	1"	1"	1"	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	1980	1750	1955	940	75	180	445	280	190	190	625
HT-25AD	2055	1925	2080	1000	75	225	415	150	150	150	350
HT-30AT	2055	1925	2080	1000	75	225	415	150	150	150	350
HT-35AT	2070	1920	3600	2100	75	225	415	150	150	150	350
HT-40AD	2070	1920	3600	2100	75	225	415	150	150	150	350
HT-45AT	2070	1920	3600	2100	75	225	415	150	150	150	350
HT-50AD	2070	1920	3600	2100	75	225	415	150	150	150	350
HT-60AD	2070	1920	3600	2100	75	225	415	150	150	150	350

5) Specifications

1) Technical parameters table of Water-cooled Industrial Chiller

Parameter		Model	HT-03W	HT-04W	HT-05W	HT-06W	HT-08W	HT-10W	HT-12W	HT-15W	
Cooling Capacity	KW		9.59	12.43	15.91	19.18	24.85	31.83	38.37	50.14	
	50HZ/60HZ		11.22	14.54	18.62	22.45	29.08	37.24	44.89	58.66	
	kcal/h		8251	10682	13690	16503	21375	27370	32994	43120	
	50HZ/60HZ		9654	12498	16018	19308	25009	32023	38603	50451	
Total Input	KW		2.8	3.55	4.5	5.4	6.8	8.4	10.1	13.1	
Maximum Running Current	A		6.7	8.4	10.5	12.6	16.5	20.4	24.6	31.8	
Power Supply			3N ~ 380V / 415V				50HZ / 60HZ				
Refrigerant		Name	R407C								
Charge	kg		1.7	2.2	2.8	3.4	2.2 x 2	2.8 x 2	3.4 x 2	2.8 x 3	
Control Type			Capillary Tube						External Balanced Thermostatic Expansion Valve		
Compressor		Type	Hermetic Scroll or Piston								
Motor	KW		2.25	3	3.75	4.5	3 x 2	3.75 x 2	4.5 x 2	3.75 x 3	
Cooling Water	Flow	m ³ /h	2.06	2.67	3.42	4.13	5.34	6.85	8.24	10.78	
			2.41	3.12	4.00	4.83	6.25	8.01	9.64	12.61	
P.D.	KPa		28	27	34	30	38	34	41	28	
In/Out Pipe Size			G3/4"	G3/4"	G1-1/2"	G1-1/2"	G1-1/2"	G1-1/2"	G1-1/2"	G2"	
Chilled Water	Flow	m ³ /h	1.65	2.14	2.74	3.30	4.27	5.47	6.59	8.62	
			1.93	2.50	3.20	3.86	5.00	6.40	7.72	10.09	
Tank	m ³		0.038	0.038	0.065	0.11	0.11	0.188	0.188	0.285	
In/Out Pipe Size			G1/4" x 4	G1/4" x 4	G1/4" x 4	G1"	G1-1/2"	G2"	G2"	G2"	
Pump	Motor	KW	0.55	0.55	0.75	0.75	0.75	1.5	1.5	1.5	
	Pressure	KPa	250	250	250	250	220	200	200	205	
Dimension	Length	mm	830	830	1080	1080	1300	1300	1600	1675	
	Width	mm	460	460	580	580	610	610	750	750	
	Height	mm	1020	1020	1230	1230	1445	1445	1445	1608	
Weight	kg		120	140	150	200	210	290	310	400	

5) Specifications

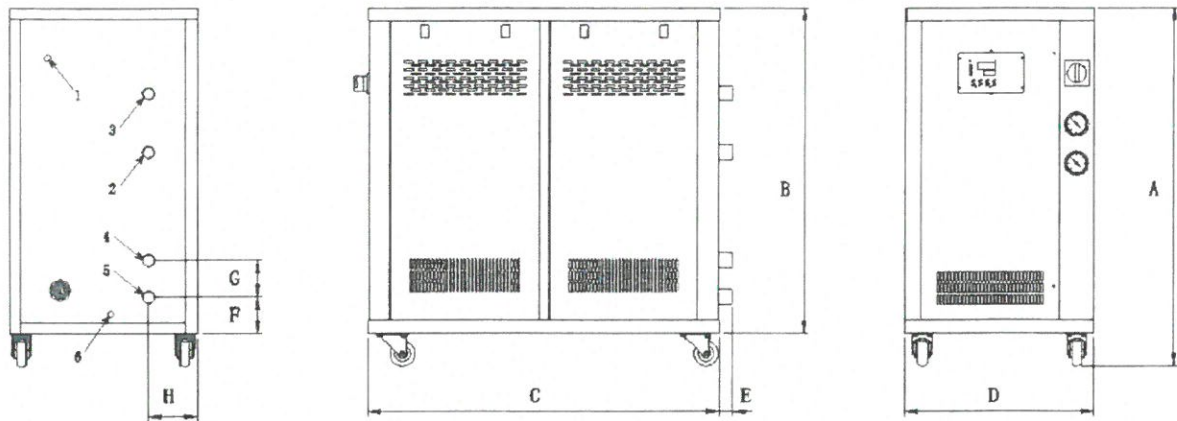
2) Technical parameters table of Water-cooled Industrial Chiller

Parameter		Model	HT-20WD	HT-25WD	HT-30WT	HT-35WT	HT-40WD	HT-45WT	HT-50WD	HT-60WD
Cooling Capacity	KW		67.14	81.53	99.19	117.28	129.06	148.68	153.91	198.12
	50HZ/60HZ		78.56	95.39	116.05	137.22	151.00	173.95	180.07	237.75
	kcal/h		57748	70120	85303	100869	110984	127868	132359	170383
	50HZ/60HZ		87585	82040	99805	118016	129851	149605	154860	204460
Total Input	KW		17.3	21.3	25.6	29.4	33.1	38.6	42.5	59
Maximum Running Current	A		42.1	48.5	58.3	65.4	75.4	80.6	88.4	101.92
Power Supply			3N ~ 380V / 415V 50HZ / 60HZ							
Refrigerant	Name		R407c							
	Charge	kg	5 x 2	6.3 x 2	5 x 3	6.1 x 3	10 x 2	7.5 x 3	12.5 x 2	15.6 x 2
	Control Type		External Balanced Thermostatic Expansion Valve							
Compressor	Type		Hermetic Scroll or Piston							
	Motor	KW	7.5 x 2	9.4 x 2	7.5 x 3	9 x 3	15 x 2	11.25 x 3	18.8 x 2	22.5 x 2
Cooling Water	Flow	m ³ /h	14.44 18.90	17.54 20.52	21.32 24.94	25.22 29.51	27.74 32.46	31.98 37.42	33.09 38.72	41.6 49.93
	P.D.	KPa	38	30	36	37	35	40	42	45
	In/Out Pipe Size		G2"	G2"	G2-1/2"	G2-1/2"	G3"	G3"	G3"	G3"
Chilled Water	Flow	m ³ /h	11.55 13.52	14.03 16.41	17.06 19.96	20.18 23.61	22.19 25.97	25.58 29.93	26.48 30.98	33.28 39.94
	Tank	m ³	0.285	0.405	0.405	0.405	0.61	0.61	0.61	0.61
	In/Out Pipe Size		G2-1/2"	G2-1/2"	G2-1/2"	G3"	G3"	G3"	G3"	G3"
Pump	Motor	KW	2.2	2.2	4	4	4	4	4	4
	Pressure	KPa	220	220	250	250	250	250	250	250
	Length	mm	1880	1880	2130	2100	2200	2200	2200	2400
Dimension	Width	mm	914	914	940	1020	1000	1070	1070	1150
	Height	mm	1785	1790	1785	2000	1940	2100	2100	2200
Weight	kg	440	620	690	760	850	950	1000	1100	

6) Exterior Dimension

1) Dimension of Water-cooled Industrial Chiller

HT-03W~HT-06W



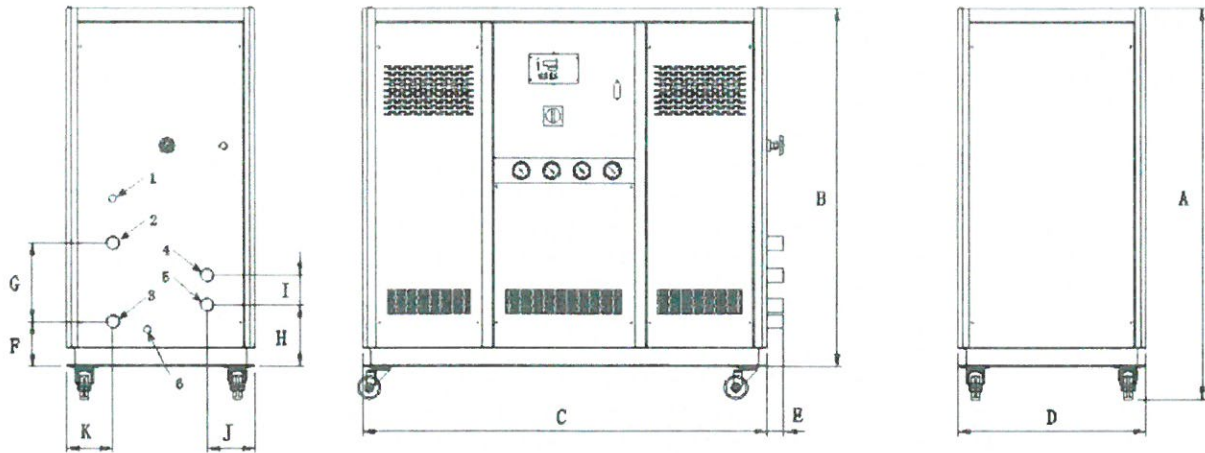
Mark	Name	Model	HT-03W	HT-04W	HT-05W	HT-06W
1	Power Cable Connection		3/4"	3/4"	3/4"	1"
2	Chilled Water Outlet		1/4" x 4	1/4" x 4	1/4" x 4	1"
3	Chilled Water Inlet		1/4" x 4	1/4" x 4	1/4" x 4	1"
4	Cooling Water Outlet		3/4"	3/4"	1-1/2"	1-1/2"
5	Cooling Water Inlet		3/4"	3/4"	1-1/2"	1-1/2"
6	Sump Drain		1/2"	1/2"	1/2"	1/2"

Model	Dimensions (mm)							
	A	B	C	D	E	F	G	H
HT-03W	1020	930	830	460	85	75	80	100
HT-04W	1020	930	830	460	85	75	80	100
HT-05W	1230	1000	1080	580	80	110	80	130
HT-06W	1230	1000	1080	580	65	275	80	155

6) Exterior Dimension

1) Dimension of Water-cooled Industrial Chiller

HT-08WD ~HT-20WD



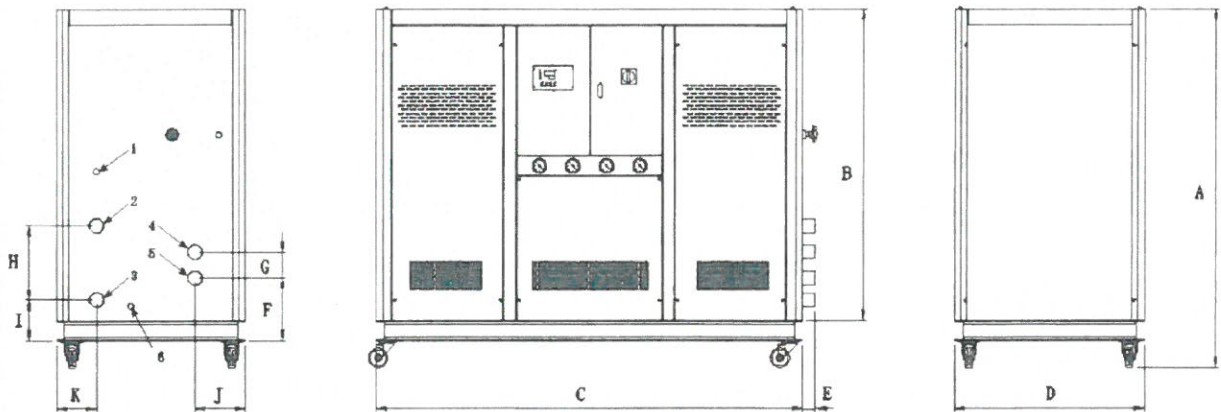
Mark	Name	Model	HT-08WD	HT-10WD	HT-12WD	HT-15WT	HT-20WD
1	Power Cable Connection		1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
2	Chilled Water Inlet		1-1/2"	2"	2"	2"	2-1/2"
3	Chilled Water Outlet		1-1/2"	2"	2"	2"	2-1/2"
4	Cooling Water Outlet		1-1/2"	1-1/2"	1-1/2"	2"	2"
5	Cooling Water Inlet		1-1/2"	1-1/2"	1-1/2"	2"	2"
6	Water Tank Drain		1"	1"	1"	1"	1"

Model	Dimensions (mm)										
	A	B	C	D	E	F	G	H	I	J	K
HT-08WD	1445	1320	1300	610	75	140	450	120	80	165	150
HT-10WD	1445	1320	1300	610	75	160	520	130	80	145	150
HT-12WD	1445	1350	1600	750	75	160	520	130	80	145	150
HT-15WT	1608	1480	1675	750	75	190	345	215	130	235	190
HT-20WD	1785	1650	1880	914	75	225	240	220	130	270	215

6) Exterior Dimension

1) Dimension of Water-cooled Industrial Chiller

HT-25WD~HT-60WD



Mark	Name	Model	Dimensions (mm)						
			HT-25WD	HT-30WT	HT-35WT	HT-40WD	HT-45WT	HT-50WD	HT-60WD
1	Power Cable Connection		1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"
2	Chilled Water Inlet		2-1/2"	2-1/2"	3"	3"	3"	3"	3"
3	Chilled Water Outlet		2-1/2"	2-1/2"	3"	3"	3"	3"	3"
4	Cooling Water Outlet		2"	2-1/2"	2-1/2"	3"	3"	3"	3"
5	Cooling Water Inlet		2"	2-1/2"	2-1/2"	3"	3"	3"	3"
6	Water Tank Drain		1"	1"	1"	1"	1"	1"	1"

Model	Dimensions (mm)										
	A	B	C	D	E	F	G	H	I	J	K
HT-25WD	1790	1650	1880	914	75	260	130	480	195	230	390
HT-30WT	1785	1650	2130	914	75	260	150	270	220	255	220
HT-35WT	2000	1860	2100	1020	75	230	130	480	275	250	170
HT-40WD	1940	1800	2200	1000	75	240	150	170	260	280	280
HT-45WT	2100	1960	2200	1070	75	260	150	455	230	260	190
HT-50WD	2100	1960	2200	1070	75	260	150	455	230	260	190
HT-60WD	2200	2060	2400	1150	75	260	150	455	230	260	190

