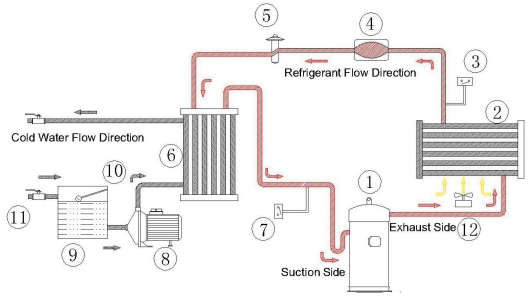
Working Principle Diagram



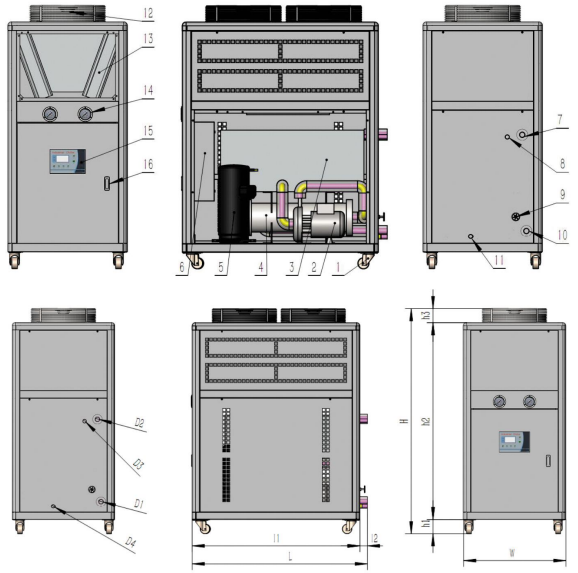
1.Compressor
2.Condenser
3.High Pressure Switch
4.Drying Filter
5.Expansin Valve
6.Evaporator
7.Low Pressure Switch
8.Pump
9.Water Tank
10.Level Sensor
11.Ball Valve
12.Fan

Technic Parameter Sheet

Parameter	Model	AYD-1/2A	AYD-01A	AYD-02A	AYD-03A	AYD-04A	AYD-05A	AYD-06A	AYD-08A	AYD-10A	AYD-12A	AYD-15A	AYD-20A	AYD-25A	AYD-30A	AYD-40A	AYD-50A
Cooling Capacity	KW 50HZ/60HZ	1.53 1.79	2.94 3.44	5.67 6.63	8.39 9.82	10.90 12.75	13.95 16.32	16.90 19.77	21.80 25.51	28.01 32.78	33.79 39.53	44.15 51.65	59.08 69.12	71.72 83.91	87.20 102.02	113.58 132.89	135.49 158.52
	Kcal/h 50HZ/60HZ	1316 1540	2528 2958	4872 5710	7216 8442	9374 10968	11990 14028	14530 17000	18748 21935	24089 28184	29059 33999	37965 44419	50805 59442	61683 72169	74992 87741	97675 11428	116521 136330
PowerSupply	Volt	1P-220V-50HZ/60HZ			3N-380V/415V-50HZ/60HZ												
Refrigerant	Name	R22/R404a/R407c															
	Fill kg	0.6	0.8	1.8	2.7	3.5	4.3	5	3.5x2	4.3x2	5x2	6.5x2	4.3x4	10.5x2	8x3	8x4	10.5x4
	controltype	Capillary tube						Expansion Valve									
Compressor	Type	Scroll or Piston															
	Motor KW	0.55	0.75	1.5	2.25	3	3.75	4.5	3x2	3.75x2	4.5x2	5.5x2	3.75x4	9.4x2	7.5x3	7.5x4	9.4x4
Air Flow	m^3/h	800	1200	2200	3200	4300	5300	6400	8500	10600	12600	15800	21000	26000	32000	42000	52800
Cold Water	Flow m^3/h	0.26	0.51	0.97	1.44	1.87	2.4	2.91	3.75	4.82	5.81	7.6	10.16	12.34	15.1	19.53	23.3
	Tank L	20	20	30	30	40	40	40	60	80	80	100	200	200	250	400	400
	In/out pipesize	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"	3"
pump	Motor kw	0.2	0.37	0.37	0.37	0.37	0.75	0.75	1.5	1.5	1.5	1.5	2.2	2.2	3.75	3.75	3.75
	Raise kpa	180	180	200	200	200	200	200	200	205	205	205	220	220	240	240	240
Dimension	Length mm	740	910	910	1070	1070	1165	1165	1370	1540	1600	1780	2030	2030	2180	2580	2580
	Width mm	540	540	540	600	600	680	680	710	780	820	830	910	910	910	1800	2000
	Height mm	800	990	990	1370	1370	1540	1540	1590	1690	1770	1750	1925	2020	2020	2050	2100
Weight	kg	60	120	130	160	170	250	270	350	370	520	590	790	880	1100	1280	1420

Design condition: At standard atmospheric pressure, evaporating temp. 2℃ , water outlet temp. 7℃, condensing temp. 45 ℃ , superheating temp. 5℃, supercooling temp. 5℃.

Structures:



NO.	Description
1	wheel
2	Water Pump
3	Water Tank
4	Shell and Tubes Evaporator
5	Compressor
6	Electrical Box
7	Water Return Pipe
8	Water Supply Pipe
9	Drain Valve
10	Water Outlet
11	Outfall
12	Fan
13	Finned Condenser
14	Pressure Gauge
15	Control Panel
16	Lock of Electrical Box

Dimension:

Model	L	W	H	I1	I2	h1	h2	h3	D1/D2	D5	D6
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Cold Water Pipe	Water Supply Pipe	Outfall Pipe
AYD-0.5A	740	540	800	690	50	90	650	60	3/4"	1/2"	1/2"
AYD-1A	910	540	990	860	50	90	790	110	3/4"	1/2"	1/2"
AYD-2A	910	540	990	860	50	90	790	110	3/4"	1/2"	1/2"
AYD-3A	1070	600	1370	1020	50	90	1170	110	3/4"	1/2"	1/2"
AYD-4A	1070	600	1370	1020	50	90	1170	110	3/4"	1/2"	1/2"
AYD-5A	1165	680	1540	1115	50	110	1310	120	1"	1/2"	1/2"
AYD-6A	1165	680	1540	1115	50	110	1310	120	1"	1/2"	1/2"
AYD-8A	1370	710	1590	1320	50	110	1360	120	1-1/2"	1/2"	1/2"
AYD-10A	1540	780	1690	1490	50	110	1460	120	1-1/2"	1/2"	3/4"
AYD-12A	1600	820	1770	1550	50	110	1530	130	1-1/2"	1/2"	3/4"
AYD-15A	1780	830	1750	1700	80	110	1510	130	2"	1/2"	3/4"
AYD-20A	2030	910	1925	1950	80	130	1665	130	2"	1/2"	1"
AYD-25A	2030	910	2020	2500	80	130	1760	130	2"	1/2"	1"
AYD-30A	2180	910	2020	2500	80	130	1760	130	2-1/2"	1/2"	1"
AYD-40A	2580	1800	2050	1950	80	130	1740	130	3"	1/2"	1"
AYD-50A	2580	2000	2100	2100	80	130	1840	130	3"	1/2"	1"