HA/W/WW Series

Selection guide

Dryers are rated at 80℃(HA.WW)/45℃ (W) saturated and 7kgf/Cm² inlet condition, 38℃ ambient and an outlet pressure dew point of 2℃.

To adjust dryer capacity for other conditions, use Table 1, 2, 3 and 4.

Example:

What is the capacity of a model 100 HA when the compressed air at the inlet to the dryer is at 10Kgf/Cm² and 40℃, the ambient temperature is 30℃ and a 5℃ dew point is desired ?

Answer:

14.5Nm³/Min x 1.19(Table 4) x 1.05(Table 1) x 1.01(Table 3) x 0.8(Table 2)=14.64 Nm³/Min

Table 1: Correction Factors (Multipliers) for Inlet Air Temperature

Inlet Air Tem.	40	45	50	55	60	65	70	75	80
Multiplier(HA.WW)	1.05	1.04	1.03	1.02	1.01	1.00	0.83	0.68	0.60
Multiplier(W)	1.01	1.00	0.83	0.74	0.69	0.61	0.56	0.48	0.42

Table 2: Correction Factors (Multipliers) for Dew Point Temperature

Dew Point Tem.	2	5	8	10
Multiplier	0.6	0.8	0.95	1.0

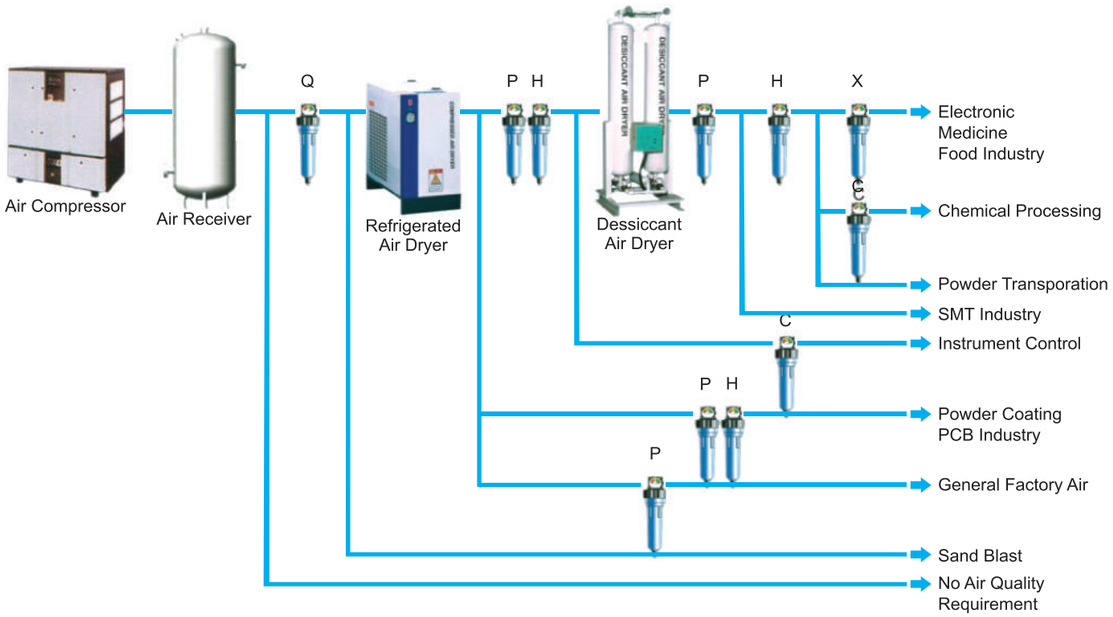
Table 3: Correction Factors (Multipliers) for Ambient Temperature

Ambient Tem.	10	15	20	25	30	35	40	50	55
Multiplier	1.05	1.04	1.03	1.02	1.01	1.00	0.96	0.84	0.58

Table 4: Correction Factors (Multipliers) for Inlet Air Pressure

Inlet Pressure	2	3	4	5	6	7	8	9	10
Multiplier	0.42	0.61	0.73	0.82	0.93	1.00	1.08	1.15	1.19

Specifications:



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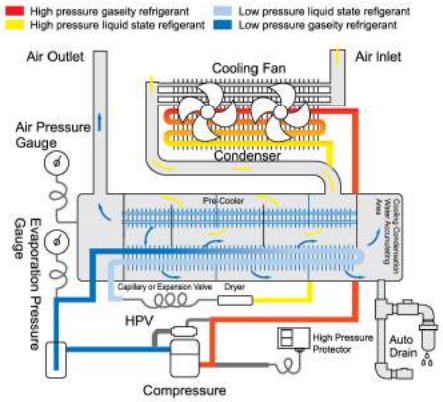
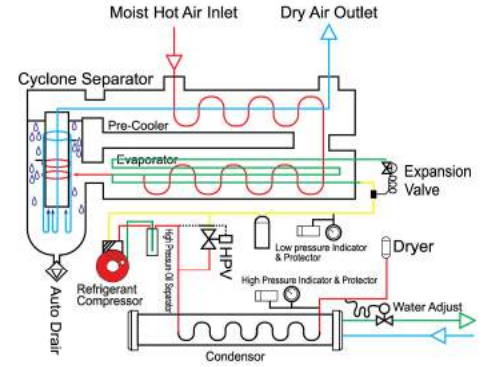
Refrigeration Type

Compressed Air Dryer



HA TYPE AIR COOLED REFRIGERATED COMPRESSED-AIR DRYER

New type of HA series refrigerated compressed-air dryer accept 80℃ air temperature input. The big strong cooling fan unit for fin type pre-cooler and heat exchanger could reduce the inlet air temperature from 80℃ to room temperature than into the heat exchanger to do heat exchange operating. It could get the pressure dew point 2℃ at the best condition.



W TYPE WATER COOLED REFRIGERATED COMPRESSED-AIR DRYER

* NEW HEATEXCHANGER / AIRFLOW EXCHANGE COMPLETELY

New type of water cooled refrigerated compressed-air dryer with a semiautomatic adjustable water cooled system. It could get the best control of cooling water quantity and saving of the compressor energy consumption.

- A big water cooling system, special design for the condenser of shell-piping type:

It could extend the 30% lifetime to the condenser and reduce the accumulation of water scale.

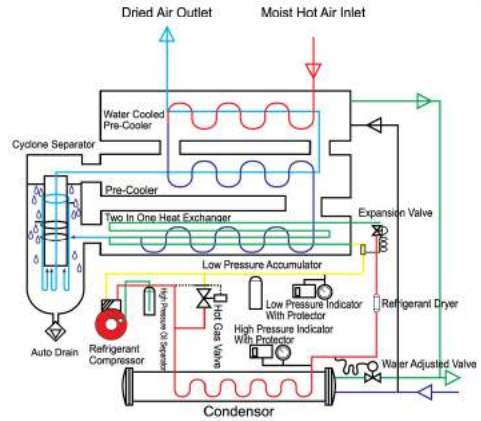
- A special design of big cyclone separator:

It could separate the water content from gas, remove the water content 98%.

- Adjustable condensing unit:

The design of saving energy and high EER, all parts are brand of Europe America and Japan.

Use high quality refrigerant to extend the lifetime of condensing unit above 60%



WW TYPE WATER COOLED REFRIGERATED COMPRESSED-AIR DRYER

* THE BEST CHOOCE AT THE BAD OPERATION ENVIRONMENT

New series (ww) water cooled refrigerated compressed-air dryer with a water cooled pre-cooler, that will be your best choice at the bad operation environment.

The pre-cooler is effective to reduce the thermal capacity of the wet air. It's function could let the refrigerated compressed air dryer to get a stabile operation. Especially to use at the bad environment. Even you choose a bigger refrigerated compressed-air dryer, the effect may be not good enough. Because the high temperature of the air will get the dryer overload and the unstable air consumption will get the dryer unstable operation. The pre-cooler could get power consumption saving, cost down for the new equipment and maintenance.

LD - HA TYPE SPECIFICATION

Model LD -		05HA	10HA	15HA	20HA	30HA	50HA	75HA	100HA	150HA	200HA	250HA	300HA	400HA
Flow Rate	M³/min	0.6	1.3	1.8	2.8	4.3	7.2	10.6	14.5	21	26	31	38	49
	SCFM	21	46	64	99	151	254	375	512	742	918	1095	1342	1730
Inlet Air Tem.		65℃ (Max. 80℃)												
Environment Tem.		≤ 38℃												
Pressure Dew Point		2~10℃ @ (7Kg/cm²)												
Working Pressure		7Kg/cm² (Max. 10Kg/cm²)												
Refrigerant		R134a					R-22							
Compressor (KW)		0.24	0.37	0.47	0.47	0.61	1.44	1.97	2.35	3.30	4.40	5.80	6.50	7.60
Power Supply		Single Phase / 220V / 50Hz					3 Phase / 380V / 50Hz							
In / Outlet Conn.		1/2"PT	3/4"PT		1"PT	1.5"PT	2"PT	2.5"PT	3"PT	3"F	4"F		5"F	
Physical Dimension (mm)	Height	450	600	600	755	755	775	1190	1200	1300	1400	1400	1600	1600
	Width	470	350	350	400	400	620	700	700	700	700	700	1700	2000
	Depth	500	635	765	815	915	935	1165	1265	1465	1665	1665	915	1015
Net Weight(kg)		30	45	50	70	98	138	238	270	400	460	480	570	890

• 05-200HA CT:54.4℃ ET:7.2℃ / 250-400HA CT:60℃ ET:10℃

LD - W TYPE SPECIFICATION

Model LD -		100W	150W	200W	250W	300W	400W	500W	600W	700W	800W	1000W	1300W	1500W	2000W	2500W	3000W
Flow Rate	M³/min	14.5	21	26	31	38	49	59	70	81	88	120	150	170	220	280	340
	SCFM	512	742	918	1095	1342	1730	2083	2471	2859	3106	4236	5300	6001	7766	9884	12002
Inlet Air Tem.		38℃ (Max. 45℃)															
Pressure Dew Point		2~10℃ @ (7Kg/cm²)															
Working Pressure		7Kg/cm² (Max. 10Kg/cm²)															
Refrigerant		R-22															
Compressor (KW)		2.35	3.30	4.40	5.80	6.50	7.60	10.30	12.70	15.10	17.30	21.60	27.00	33.80	42.40	46.70	55.9
Power Supply		3 Phase / 380V / 50Hz															
In / Outlet Conn.		3"PT	3"F	4"F			5"F		6"F				8"F			10"F	12"F
Cooling Water Conn.		3/4"	1"		1-1/4"	1.5"				2"			2.5"			3"	
Cooling Water (L/min)		45	60	75	90	105	120	150	190	225	240	300	380	450	600	750	900
Physical Dimension (mm)	Height	1000	1150	1200	1200	1400	1400	1750	1950	2000	2000	2250	2300	2500	2500	2700	2800
	Width	700	700	700	700	1700	1800	2300	2300	2400	2400	2600	2700	2800	2900	3000	3200
	Depth	1265	1365	1565	1565	915	965	1100	1200	1200	1200	1400	1600	1600	1600	1800	1800
Net Weight(kg)		280	322	383	405	520	650	840	950	1100	1200	1450	1600	2100	2450	2600	3500

• Cooling water temperature under 32℃ • Above 700W(Include)open type • 05-200W CT:54.4℃ ET:7.2℃ / 250-1300HA CT:60℃ ET:10℃ / 1500-3000W CT:45℃ ET:5℃

LD - WW TYPE SPECIFICATION

Model LD -		100WW	150WW	200WW	250WW	300WW	400WW	500WW	600WW	700WW	800WW	1000WW	1300WW	1500WW	2000WW	2500WW	3000WW
Flow Rate	M³/min	14.5	21	26	31	38	49	59	70	81	88	120	150	170	220	280	340
	SCFM	512	742	918	1095	1342	1730	2083	2471	2859	3106	4236	5300	6001	7766	9884	12002
Inlet Air Tem.		65℃ (Max. 80℃)															
Pressure Dew Point		2~10℃ @ (7Kg/cm²)															
Working Pressure		7Kg/cm² (Max. 10Kg/cm²)															
Refrigerant		R-22															
Compressor (KW)		2.35	3.30	4.40	5.80	6.50	7.60	10.30	12.70	15.10	17.30	21.60	27.00	33.80	42.40	46.70	55.9
Power Supply		3 Phase / 380V / 50Hz															
In/Outlet Conn.		3"PT	3"F	4"F			5"F		6"F				8"F			10"F	12"F
Cooling Water Conn.		1"		1.5"			2"		2.5"				3"			4"	
Cooling Water (L/min)		90	120	150	180	210	240	300	380	450	480	600	760	900	1200	1500	1800
Physical Dimension (mm)	Height	1000	1150	1300	1300	1400	1600	1850	1950	2000	2000	2250	2400	2500	2600	2800	2900
	Width	700	700	700	700	1700	2000	2300	2300	2400	2400	2600	2700	2800	2900	3000	3200
	Depth	1265	1365	1565	1565	915	1065	1250	1250	1300	1300	1400	1600	1600	1700	2000	2100
Net Weight(kg)		350	442	491	511	750	850	1250	1200	1300	1450	1750	1850	2300	3000	3600	4100

• Cooling water temperature under 32℃ • Above 700WW(Include)open type • 05-200WW CT:54.4℃ ET:7.2℃ / 250-1300WW CT:60℃ ET:10℃ / 1500-3000WW CT:45℃ ET:5℃