



COAIRE AIR DRYER

REFRIGERATED

**AIR
DRYER**



High performance dryer, solution for humidity.

Air dryer test to guarantee performance

1. Lay the mirror at the air outlet. If moisture detected on the mirror, dryer has not enough performance.
2. If the temperature is almost same between inlet and outlet of dryer, dryer has not enough performance
3. Orion, Korea has same QC standard with Orion, Japan.

Refrigerant dryer feature

- To get continue dew point
- To get minor change air pressure loss
- No blockage
- Continuous working possible
- Easy maintenance and check
- Lower running cost
- No consumable part needed

ORION KOREA AIR DRYER

- Oil free applicable with Stainless Shell
- Outstanding cooling efficiency
- Less pressure loss

1. Reliable design

Refrigerant dryer has easy maintenance. It designed for high performance and high reliability

2. High efficiency Cross Wave Fin heat exchanger

Air dryer system has 2 systems (cooling and collision)

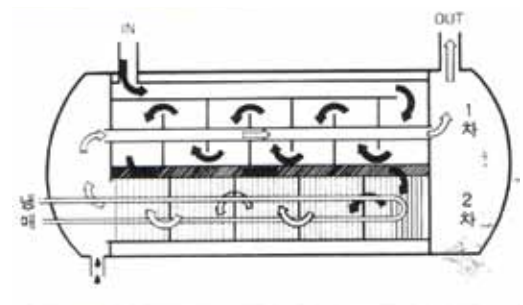
Fin has separator function, so has higher efficiency of dryer system and smaller size.

3. Heat exchanger with stainless steel

KWD air dryer has stainless shell, compatible with clean air system.

4. Auto drain trap AD-5 applied

Drain volume can be adjusted. Easy maintenance. (from KWD-35B model)



REFRIGERANT
AIR DRYER

KWD - 5 ~ 600B

KWD - 300W - B ~ 2200WA

KWD - 300FW-B

Type

Model Version

With W Water Cooled. Without W Air Cooled

Refrigerant Type R407c

Air Compressor Capacity HP



KWD-750FW-B

Specification

Item			Model	Air Cooled								
				10B	15B	20B	35B	50B	75B	100B	125B	150B
Capacity (m³/min)			1.2	1.8	2.8	4.7	6.8	10.5	14	18	20	30
Terms Of Use	Fluid		Compressed Air									
	Max Inlet Temp.	°C	50									
	Ambient Temp.	°C	2~40									
	Max Working Pressure	MPa (kgf/cm ²)	0.98 (9.9)									
Dimension (HxDxW)		mm	510x605x254	510x605x254	64x785x254	651x785x254	693x930x254	887x912x347	887x912x347	1037x859x572	1037x859x572	1170x589x572
Weight		Kg	29	29	40	43	53	72	78	120	165	168
Connection		B . A	R3/4 . 20A	R3/4 . 20A	R1 . 25A		R1-1/2 . 40A		R2 . 50A		R2-1/2 . 65A	
Cooling Water Volume and Outlet Size		(m³/h) . RP										
Electricity	Voltage	(V/ph/Hz)	(V/ph/Hz) 1phase 220V +/-5% 50/60Hz									
	Power Consumption	KW	0.47	0.47	0.5	0.52	0.94	1.3	1.7	2.3	2.9	3.1
	Current	A	2.2	2.2	2.3	2.5	4.9	5.5	7.8	11	14.5	15
Other Parts	Condensate System		Fin and Tube, Forced Air Cooling									
	Cooling System		Stainless Shell Cross-Wave Fin Type									
	Refrigerant Control System		Capillary Tube System									
	Volume Control System		Capacity Control Valve									
	Cooling Water Control System		-									
	Refrigerant		R-22									
	Auto Drain Trap		Float Type				Disk Type					

- Water cooling volume based on inlet temperature 32°C

- Auto drain trap (NS-500 : Float type, AD-5 : Disk type)

- KWD 750FW-E ~ 2200W-E : Order production *pressure scale is 1kg/cm² = 0.1 MPa

- For others, please contact manufacturer

Excellent features, satisfying customers

1. Non-clogging Baffle Cross Wave Fin heat exchanger (patent registered)
2. Refrigerant Typical dew point meter compensating the difference between evaporating temperature and dew point temperature.
3. Capacity; Air cooled 1.2~90m³/min Water cooled: 48~385m³/min
4. Inlet temperature 2~60°C
5. Applicable Air compressor : Air cooled : 5HP~600HP Water cooled : 300HP ~ 2200HP



BAFFLE FIN



KWD-20B



KWD-100B

				Water Cooled				Order Made (Water Cooled)			
300F-B	400F-3	500F-B	600F-E	300FW-B	400FW-B	500FW-B	600FW-E	750FW-E	1250FW-E	1500FW-E	2200FW-E
42	56	65	90	48	60	70	97	35	192	254	385
				Compressed Air							
60				60							
				2~45							
0.98 (10)				0.93 (9.5)						0.95 (9.5)	
1357x1290x950	1357x1290x950	1583x905x1969	1650x1100x2070	1357x1290x950	1357x1290x950	1583x905x1969	1650x1100x2070	1703x1145x2077	1850x1151x2090	1750x1800x	2190x1950x
358	362	540	810	348	352	540	810	880	1000	2000	2200
R3 . 80A		R4 . 100A	R5 . 125A	R3 . 80A		R4 . 100A	R5 . 125A	R6 . 150A	R8 . 200A(3000)		(4000)
				3.0 . 1	3.2 . 1	3.7 . 1	5.0 . 1	7.1 . 1 1/2	10.7 . 1 ¹ /2		R10 . 250A
3phase	220V	+/-5%	50/60Hz	3phase				220V	+/-5%	50/60Hz	14.2 . 2 21.4 . 2
4.3	6	5.1	9.1	4.2	5.1	4.4	7.7	9.2	14.8	20.0	33.6
15.1	19.6	17.5	27.8	12.6	14.3	15.5	23.6	31.2	44.6	66	108
				Dual Piping Type Water Cooled							
				Stainless Shell Cross-Wave Fin Type						Baffle Fin Type	
				Capillary Tube System							
				Capacity Control Valve							
				Water Controller							
R-407C				R-407C							
				Disk Type							

Refrigerant AIR DRYER

Model selection

Each air dryer model has different working condition.

If proper dryer not selected, it can be caused poor performance and malfunction.

Please use below table to select proper dryer model.

(Air Capacity m³/min)

Inlet Temperature (°C)	Dew Point(°C)	Ambient Temperature (°C)	15B	20B	35B	50B	75B	100B	125B	150B	200B	300F-B	400F-B	500F-B												
30	5	30	2.34	3.38	6.11	8.84	13.55	18.06	23.22	25.80	38.70	54.18	72.24	83.85												
		32																								
		35	2.3	3.33	6.02	8.70																				
		40	2.16	3.12	5.64	8.16																				
	10	30	2.34	3.38	6.11	8.84																				
		32																								
		35																								
		40																								
35	5	30	1.87	2.70	4.89	7.07	13.02	17.36	22.32	24.80	37.20	52.08	69.44	80.60												
		32	1.8	2.6	4.7	6.8	12.06	16.80	21.60	24.00	36.00	50.40	67.20	78.00												
		35	1.73	2.50	4.51	6.53	11.97	15.96	20.52	22.80	34.20	47.88	63.84	74.10												
		40	1.62	2.34	4.23	6.12	10.71	14.28	18.36	20.40	30.60	42.84	57.12	66.30												
	10	30	2.34	3.38	6.11	8.84	13.55	18.06	23.22	25.80	38.70	54.18	72.24	83.85												
		32																								
		35													2.3	3.33	6.02	8.70	13.02	17.36	22.32	24.80	37.20	52.08	69.44	80.60
		40													2.16	3.12	5.64	8.16	11.66	15.54	19.98	22.20	33.30	46.62	62.16	72.15
40	5	30	2.51	2.18	3.95	5.71	10.82	14.42	18.54	20.60	30.90	43.26	57.68	66.95												
		32	1.47	2.13	3.85	5.58	10.50	14.00	18.00	20.00	30.00	42.00	56.00	65.00												
		35	1.4	2.03	3.67	5.30	9.98	13.30	17.10	19.00	28.50	39.90	53.20	61.75												
		40	1.26	1.82	3.29	4.76	8.93	11.90	15.30	17.00	25.50	35.70	47.60	55.25												
	10	30	1.9	2.76	4.98	7.12	11.76	15.68	20.16	22.40	33.60	47.04	62.72	72.80												
		32	1.83	2.65	4.79	6.94	11.45	15.26	19.62	21.80	32.70	45.78	61.04	70.85												
		35	1.75	2.52	4.56	6.60	10.95	14.56	18.72	20.80	31.20	43.68	58.24	67.60												
		40	1.66	2.39	4.32	6.26	9.77	13.02	16.74	18.60	27.90	39.06	52.08	60.45												
45	5	30	1.31	1.90	3.43	4.96	8.93	11.90	15.30	17.00	25.50	35.70	47.60	55.25												
		32	1.46	1.82	3.29	4.76	8.72	11.62	14.94	16.60	24.90	34.86	46.48	53.95												
		35	1.17	1.69	3.06	4.42	8.30	11.06	14.22	15.80	23.70	33.18	44.24	51.35												
		40	0.99	1.43	2.59	3.74	7.46	9.94	12.78	14.20	21.30	29.82	39.76	46.15												
	10	30	1.58	2.29	4.14	5.98	9.77	13.02	16.74	18.60	27.90	39.06	52.08	60.45												
		32	1.57	2.26	4.09	5.92	9.45	12.60	16.20	18.00	27.00	37.80	50.40	58.50												
		35	1.29	1.87	3.38	4.90	8.93	11.90	15.30	17.00	25.50	35.70	47.60	55.25												
		40	1.26	1.82	3.29	4.76	7.98	10.64	13.68	15.20	22.80	31.92	42.56	49.40												
50	5	30	0.84	1.22	2.21	3.20	6.51	8.68	11.16	12.40	18.60	26.04	34.72	40.30												
		32	0.81	1.17	2.12	3.06	6.30	8.40	10.80	12.00	18.00	25.20	33.60	39.00												
		35	0.77	1.12	2.01	2.92	5.99	7.98	10.26	11.40	17.10	23.94	31.92	37.05												
		40	0.66	0.96	1.74	2.52	5.36	7.14	9.18	10.20	15.30	21.42	28.56	33.15												
	10	30	1.26	1.82	3.29	4.76	7.04	9.38	12.06	13.40	20.10	28.14	37.52	43.55												
		32	1.2	1.74	3.15	4.56	6.83	9.10	11.70	13.00	19.50	27.30	36.40	42.25												
		35	1.1	1.61	2.91	4.22	6.51	8.68	11.16	12.40	18.60	26.04	34.72	40.30												
		40	0.99	1.43	2.59	3.74	5.78	7.70	9.90	11.00	16.50	23.10	30.80	35.75												

Pressure Correction Factor Table (Capacity Can Be Differed By Air Pressure)

Air Pressure(MPa)	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
Correction Factor	0.67	0.73	0.80	0.87	0.93	1.00	1.07	1.13	1.2



บริษัท อาร์. แฮงค์ ซัพพลาย จำกัด
R.HANK SUPPLY CO.,LTD.

1035/83-85 ซอยกรุงเทพ-นนทบุรี 33 ถนนกรุงเทพ-นนทบุรี แขวงวงศ์สว่าง เขตบางซื่อ กรุงเทพฯ 10800

1035/83-85, Soi. Krungthep-Nonthaburi 33, Krungthep-Nonthaburi Rd. Wongsawang, Bangsue, Bangkok 10800

Tel. 02-910-8754, 02-587-4863, 02-587-9415, 02-586-8393-4 Fax. 02-587-3943, 02-910-9611

www.rhanksupply.com E-mail. rhanksupply@gmail.com