REFRIGERATION AIR DRYER

RD Series

delair®
The Compressed Air Treatment System Company



PA#WAGROUP
Innovation is life

REFRIGERATION DRYER



Range:

18 m³hr to 6,000 m/hr (10.6 cfm to 3540 cfm) Higher capacity available on request



Features

- Available in 45 standard models
- Provides best pressure dew point from +3°C to +4°C
- Delsmart card MIMIC display to read out dew point, operating parameters faults indication
- Proprietary Heat Exchanger
- Filled with Eco-friendly refrigerant
- Energy saving
- Designed specially for tropical conditions
- Unique Volume Liquid Accumulator
- Compact design
- According to ISO 7183 Compressed Refrigerant Air Dryer

Std. Working Parameters

Pressure : 7.0 kg/cm²(g)
 Max. Working Pressure : 14kg/cm²(g)
 Air Inlet Temperature : 38°C
 Ambient Temperature : 38°C
 Water Pressure : 3-6 kg/cm²(g)
 Water Inlet Temperature : 32°C

Optional Features

- Available in both option with automatic expansion valve and with thermostatic expansion valve
- Explosion proof controls for offshore application
- Delair also manufactures standard high pressure Refrigeration
 Dryers for PET industry/PET blowing application

How does it work?

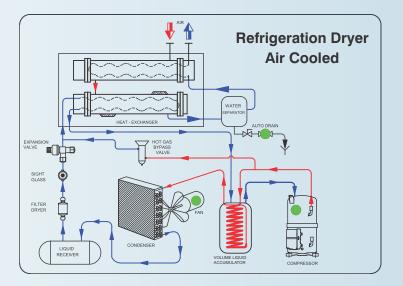
Delair Refrigeration type Dryer operates on the method of cooling the air to near freezing point to remove the moisture. The cold air is reheated by the incoming air to approximately 10°C below the incoming compressed air temperature at nominal conditions.

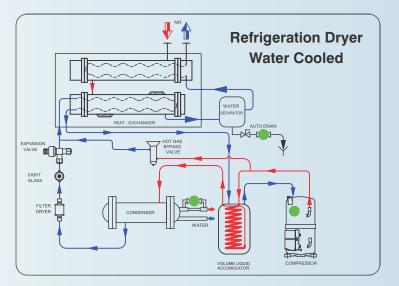
The Refrigeration Dryer consists of an air drying unit with centrifugal cum demister pad condensate separator and a refrigeration circuit. The refrigeration circuit consists mainly of a compressor, a condenser, a receiver, a volume liquid accumulator with liquid refrigerant and an evaporator. The air drying unit consists of two kinds of heat exchangers, one is air to air heat exchanger and second is refrigerant to air heat exchanger.

THE HEART OF THE SYSTEM IS THE PROPRIETARY HEAT EXCHANGER WHICH MAKES IT OUTPERFORM OTHER DRYERS.

The function of the air to air heat exchanger is to lower the load on the refrigerant system and secondly by warming the outgoing cold air pipelines to the required temperature.

The refrigerant to air heat exchanger(s) further cools the air to the required temperature thus condensing the water vapour from the air, which is automatically drained.





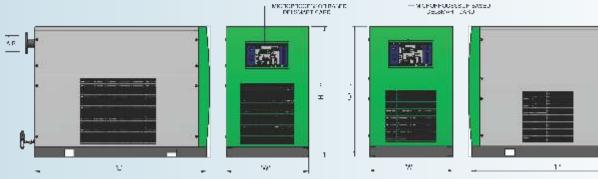
Specifications are subject to change without notice

BEST PERFORMANCE WITH RELIABILITY



Technical Specification I

MODEL	CAPACITY			DIMENSIONS (IN MM)			APPROX. WT.	CONNECTION (IN INCHES)		CONN. LOAD	WATER QTY. (IN
	RD-18 A	10.6	18	5	880	465	700	90	1/2" BSP.	_	0.29
RD-54 A	32	54	15	880	465	700	90	1/2" BSP.		0.38	
RD-110 A	65	110	31	880	465	830	100	3/4" BSP.		0.47	
RD-150 A	88	150	42	1100	465	830	200	1" BSP.		0.62	
RD-180 A	106	180	50	1100	465	830	200	1" BSP.		0.62	
RD-220 A	130	220	62	1100	465	830	210	1" BSP.		0.93	
RD-290 A	170	290	81	1200	465	830	215	1" BSP.		0.93	
RD-360 A	212	360	101	1250	600	950	280	2" F		1.47	
RD-430 A	254	430	120	1250	600	950	280	2" F		1.47	
RD-540 A	318	540	151	1250	600	950	295	2" F		1.75	
RD-600 A	355	600	168	1250	700	950	335	2" F		1.94	
RD-720 A	424	720	202	1300	750	1000	340	2" F		2.41	
RD-850 A	500	850	238	1300	750	1000	385	3" F		2.72	
RD-970 A	572	970	272	1300	750	1000	385	3" F		2.72	
RD-1060 A	624	1060	297	1480	900	1200	520	3" F		3.22	
RD-1150 A	678	1150	322	1480	900	1200	520	3" F		3.22	
RD-1270 A	749	1270	356	1480	900	1200	525	3" F		3.86	
RD-1350 A	795	1350	378	1480	900	1200	525	3" F		3.86	
RD-1690 A	996	1690	473	1480	1000	1270	610	4" F		4.93	
RD-1910 A	1124	1910	535	1650	1050	1320	700	4" F		6.02	
RD-2160 A	1271	2160	605	1650	1050	1320	750	4" F		6.85	
RD-2550 A	1500	2550	714	1800	1200	1500	1100	4" F		8.24	
RD-2880 A	1695	2880	806	1800	1200	1500	1150	4" F		10.48	
RD-3000 A	1770	3000	840	1800	1200	1500	1150	4" F		10.48	
RD-3340 A	1971	3340	935	1480	2500	1270	1350	6" F		9.86	
RD-4310 A	2543	4310	1207	1650	2900	1320	1600	6" F		13.7	
RD-6000 A	3540	6000	1680	1800	3200	1500	2500	6" F		20.96	
RD-540 W	318	540	151	1250	600	930	300	2" F	1/2" BSP.	1.29	1
RD-600 W	355	600	168	1250	600	930	325	2" F	3/4" BSP.	1.57	1
RD-720 W	424	720	202	1250	600	930	325	2" F	3/4" BSP.	1.57	2
RD-850 W	500	850	238	1300	700	1050	390	3" F	3/4" BSP.	2.04	2
RD-970 W	572	970	272	1300	700	1050	390	3" F	3/4" BSP.	2.04	3.5
RD-1060 W	624	1060	297	1300	700	1050	450	3" F	3/4" BSP.	2.35	3.5
RD-1150 W	678	1150	322	1300	700	1050	450	3" F	3/4" BSP.	2.35	3.5
RD-1270 W	749	1270	356	1300	700	1050	450	3" F	3/4" BSP.	2.35	3.5
RD-1350 W	795	1350	378	1300	700	1050	450	3" F	3/4" BSP.	2.35	3.5
RD-1690 W	996	1690	473	1400	800	1200	545	4" F	1" F	4.43	3.5
RD-1910 W	1124	1910	535	1400	800	1200	550	4" F	1.1/2" F	4.02	4.5
RD-2160 W	1271	2160	605	1600	900	1280	625	4" F	1.1/2" F	4.67	5.5
RD-2550 W	1500	2550	714	1600	900	1280	715	4" F	1.1/2" F	5.38	5.5
RD-2880 W	1695	2880	806	1600	900	1280	735	4" F	1.1/2" F	6.34	5.5
RD-3000 W	1770	3000	840	1600	900	1280	735	4" F	1.1/2" F	6.34	5.5
RD-3340 W	1971	3340	935	2000	1650	1400	1300	6" F	1.1/2" F	8.84	7
RD-4310 W	2543	4310	1207	2000	1650	1400	1400	6" F	2" F	9.32	9
RD-6000 W	3540	6000	1680	2000	1650	1400	1700	6" F	2" F	12.66	11



NOTE:-

- Connecting load from RD-18A to RD-970A & RD-540W to RD-1350W with 220V AC, 1 PH, 50Hz.
- Connecting load from RD-1060A to RD-3000A & RD-1690W to RD-6000W with 415V AC, 3 ph, 50Hz.
- 3 PH model available from RD-540A/W onward
- Available with Eco-friendly refrigerant gas R-22, R134a and R-407c
- For other working conditions please contact us
 RD-3340A, RD-4310A & RD-6000A shall be supply in two individual circuit with common air inlet / outlet header

 RD-3340W, RD-4310W & RD-6000W shall be in double circuit with common

Installation Options







All data subject to change without notice

delcare™

Quick response for spare & service need supported by experienced team of qualified engineers.









PRODUCTS & ACCESSORIES



Refrigeration Dryer



Adsorption Dryer



Customised / Engineered Adsorption Dryers



Air Filter



Receiver



Water Cooled-After Cooler



Air Cooled After Cooler



Moisture Separator



Auto Drain Valve ZL series



Auto Drain Valve EO series



Auto Drain Valve

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