

# STABLE

Quality Air Solution

**TECHNOLOGY FROM GERMANY**



**RD SERIES AIR DRYER**



ISO9001, ISO14001, ISO18001 Certificate

### Advantages of STABLE refrigeration dryers



- Low dew points: Under standard working conditions, pressure dew points can be below 5 °C and outlet dew points at normal pressure can be below -20 °C.
- Highly efficient and professional air-liquid separator: Collision separation + low speed centrifugal separation + stainless wire-mesh demister separator; 99.9% of the liquid contents are separated from cooled compressed air to prevent the liquid water from twice evaporation and guarantee low dew point of finished products.
- High quality hot-air bypass valve: automatically balance pressures on high and low pressure sides, reduce compressor's load and electricity consumption. Stable evaporating pressure ensures normal operations of the machine at low environmental temperature.
- Perfect intelligent protection device: Special voltage protection for refrigerant, phase-sequence and open-phase protections, low-temperature protection, automatic defrosting, automatic failure shutdown, automatic alarm and overheat protection for motor.
- High quality refrigeration parts: All of the components are manufactured by international brands, such as Panasonic refrigerant compressor, Danfoss and Emerson expansion valves, Airmender oil-air separator, Saginomiya pressure controller and so on.
- Strict production test: Every machine is required to take 36-hour pressure holding test to guarantee that all the products are 100% qualified.

### Condenser

The condenser using copper fin has a high heat transfer coefficient to increase the degree of super cooling and refrigerating capacity.

### Refrigerant compressor

International brand compressors with super high energy efficiencies and excellent reliability which guarantee the preminent performance of refrigerant dryers.

### Electric drain valve

Electric timed drainer is installed with anti-blocking device to prevent any blocking in the drainer.

### Technical Data Sheet

Model		RD-10F	RD-20F/HF	RD-30F/HF	RD-50F/HF	RD-60F/HF	RD-75F/HF	RD100F/HF	RD-125F/HF	
Air processing capacity	Nm3/min	1.5	2.8	4.0	7.0	9.0	12.0	15.0	20.0	
	SCFM	53	98	140	245	315	420	525	700	
Electricity consumption	Kw	0.62	0.64/0.7	0.97/1.0	1.25/1.4	1.8/2.1	2.2/2.5	2.8/3.1	3.6/3.9	
Nozzle size		PT1"	PT1"	PT1 1/2"	PT1 1/2"	PT2"	PT2"	PT2"	PT2"	
Dimension	Length(mm)	780	800/800	900/900	1050/1050	1350/1350	1350/1350	1350/1450	1450/1450	
	Width(mm)	500	535/535	535/545	650/600	690/650	805/705	800/790	810/805	
	Height(mm)	760	805/1125	815/1135	865/1230	910/1310	920/1285	960/1350	1060/1450	
Weight	kg	55	90/110	100/125	120/145	146/175	160/190	175/210	200/240	
Power		220V/50HZ,60HZ/1PHASE						380V/50HZ/3PHASES		

  

Model		RD-150F/HF	RD-200F/HF	RD-250F/HF	RD-300F/HF	RD-350F/HF	RD-400F/HF
Air processing capacity	Nm3/min	25.0	30.0	35.0	40.0	50.0	60.0
	SCFM	875	1050	1225	1400	1750	2100
Electricity consumption	Kw	3.8/4.2	4.8/5.2	6.5/7	7.7/8.2	9.7/10.7	13/14.5
Nozzle size		DN65	DN80	DN80	DN100	DN100	DN100
Dimension	Length(mm)	1700/1550	1900	2000/1950	2080/1950	2200/2000	2500/2000
	Width(mm)	855/860	905/850	905/900	1005/900	1035/1000	1185/1020
	Height(mm)	1245/1535	1210/1590	1210/1660	1310/1730	1500/1800	1555/1850
Weight	kg	245/290	365/425	405/515	550/625	570/641	680/760
Power		380V/50HZ/3PHASE					

### Dryers maximum air flow = Dryer air flow x K1 x K2 x K3 x K4

Correction Factor									
Ambient temperature °C	28	30	32	35	38	40	42	45	
Factory (K1)	1.14	1.1	1.03	1	0.93	0.90	0.86	0.84	
Air inlet temperature °C	45	50	55	60	70	80			
Factory (K2) RD-HF	1.2	1	0.87	0.8	0.75	0.68			
Air inlet temperature °C	35	40	45	50	55	60	63	65	
Factory (K2) RD-F	1.45	1.14	1	0.80	0.72	0.56	0.50	0.46	
Working pressure Kg/cm2	4	6	7	8	9	10	13	16	
Factory (K3)	0.79	0.94	1	1.05	1.09	1.12	1.12	1.26	
Dew point temperature °C	2	3	4	5	6	7	8	10	
Factory (K4)	0.98	1	1.02	1.03	1.06	1.07	1.09	1.13	

- RD-HF Series Air Inlet Temperature 80 °C (Max.)
- RD-F Series Air Inlet Temperature 65 °C (Max.)
- Dew Point Temperature 2-10 °C
- Ambient Temperature 10-45 °C
- RD-HF Series Independent After Cooler
- Air In-Out Pressure Drop <3 Psig
- 2 Years Warranty for Evaporator.
- Refrigerant R-22/R-407C (optional)