



FR Series

Refrigerant Compressed Air Dryers

Unique Features

- Performance rated for the Australian climate
- · High efficiency stainless steel heat exchanger
- Unobstructed low pressure loss air flow path
- Fan-forced, air cooled refrigerant condenser
- Auto condensate drain with isolation valve
- Industrial grade 134a, 407C or 410A refrigerant
- 240 Volt plug and play connection, except for models FR100A & FR150A
- Corrosion resistant chassis and enclosure
- Auto capacity control and protection functions
- Manufactured to ISO 9001 quality standards

Installation

A refrigerant dryer should normally be installed downstream from the compressor and air receiver. It is also recommended to install a compressed air pre-filter upstream of the dryer to prevent build up of dirt and oil contaminants inside its heat exchanger.

Warranty

Fusheng refrigerant dryers are covered by a 2-year warranty against faulty materials and workmanship.

System Flow Chart

1 Heat Exchanger
2 Refrigerant Compressor
3 Electric Cooling Fan
4 Air-Cooled Condenser
5 Filter / Strainer
6 Capillary Tube
7 Capacity Control Valve
8 High Pressure Protection Switch
9 Fan Control Pressure Switch
Pressure Gauge (Evaporating Pressure)
Pressure Gauge (Air Outlet)
2 Ball Valve
3 Condensate Drain Valve

Compressed Air Outlet	Compressed Air Inlet	Refriger	rant Circuit —
	Condensa	6	0
	3 9	5	

Specifications		FR005A	FR010A	FR020A	FR030A	FR050A	FR075A	FR100A	FR150A		
Air Flow Capacity *	m³/min (cfm)	0.6 (21.2)	1.2 (42.4)	2.4 (84.8)	4.4 (155)	7.0 (247)	11.0 (388)	14.0 (494)	23.5 (830)		
Inlet Air Temperature	°C	35 Nominal / 50 Maximum									
Ambient Temperature	°C	32 Nominal / 40 Maximum									
Pressure Dew Point	°C	2 Nominal / 10 Maximum @ 700 kPa (102 psi)									
Inlet Air Pressure	kPa (psi)	700 (102) Nominal / 1,000 (145) Maximum									
Refrigerant		R134a R407C			R410A		R407C				
Power Consumption	kW	0.3	0.4	0.6	0.8	1.6	1.6	2.3	3.4		
Electrical Power Supply									415 V, 3-Ph, 50 Hz, 7.0 A		
Air Pipe Connections	BSP	1/2"	3/4"	1"	1"	1-1/2"	1-1/2"	2"	2-1/2"		
Height	mm	478	543	705	705	984	988	1,220	1,260		
Width	mm	377	722	797	797	944	944	670	792		
Depth	mm	490	423	423	440	490	490	984	1,022		
Weight	kg	18	28	35	37	73	82	113	180		

^{*} Refer to the separate Technical Guide for capacity correction factors.



