

⇒ FXR Series

REFRIGERANT AIR DRYERS

2.5 to 18.0 m³/min



Advanced Design

Using advanced heat exchanger, separation and refrigeration technology, the FXR series refrigerant dryer delivers dependable operation and optimum performance. It's intelligent design reducing life cycle costs and makes installation a breeze.

Design Features

Stainless steel heat exchanger - Compact and thermally efficient the stainless steel brazed plate heat exchanger is corrosion resistant and ensures air quality and long term performance.

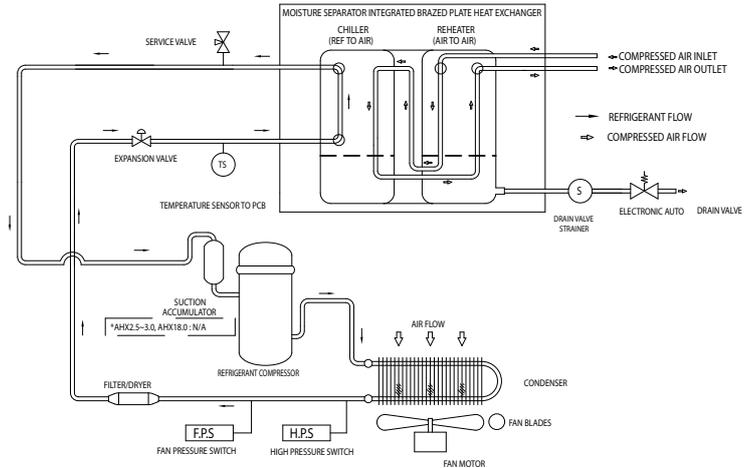
Environmentally friendly - Energy efficient operation and use of ozone friendly refrigerants reduce the FXR series refrigerant dryer's environmental impact.

Optimal dew point - Best possible dew point performance under all conditions delivers dependable high quality compressed air.

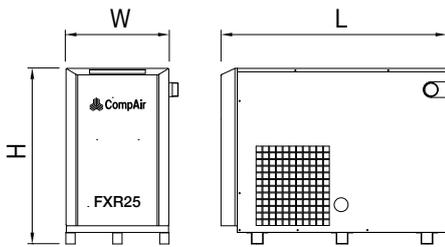
Low pressure drop - The design of the brazed plate heat exchanger and integral separator ensures minimal pressure drop, improving system performance and reducing operating costs.

How they work

Warm saturated air from the compressor enters the air to air heat exchanger where it is cooled by the air exiting the refrigerant dryer. This pre-cooled air then enters the air to refrigerant heat exchanger and is further chilled, causing water vapour in the air to condense. Condensed moisture is collected from the air stream by an integral separator with a stainless steel demister. Liquid condensate is removed from the separator by an automatic timed electric drain. Cool dry discharge air then enters the re-heater where the elevated refrigerant temperature warms the discharge air, preventing condensation forming on outlet piping.



Technical Specifications



Model	Flow Capacity m ³ /min ⁽¹⁾	Total Power (kW)	Power Supply (VAC 50hz)	Refrigerant Type	Dimensions (L x W x H) (mm)	Connection (Male BSP)	Weight (Kg)
FXR25	2.5	0.6	230 / 1	R134A	601 x 363 x 861	DN25	50
FXR30	3.0	0.6			601 x 363 x 861	DN25	53
FXR49	4.9	0.9			601 x 363 x 921	DN25	58
FXR66	6.6	1.4			761 x 443 x 971	DN50	78
FXR80	8.0	1.6		761 x 443 x 971	DN50	85	
FXR100	10.0	2.1		811 x 493 x 1151	DN50	100	
FXR133	13.3	2.6		811 x 493 x 1151	DN50	112	
FXR150	15.0	2.8		811 x 493 x 1251	DN50	134	
FXR180	18.0	3.4	400/3	R407C	811 x 543 x 1321	DN65	152

Correction factors⁽²⁾

To calculate drying capacity for specific conditions, multiply the volume flow capacity by the correction factors (volume flow x A x B x C).

Operating Pressure bar(g) ⁽³⁾	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0
A	0.92	0.94	0.96	0.98	1.00	1.01	1.03	1.05	1.07	1.09	1.10	1.11	1.12	1.13	1.14	1.16	1.17
Inlet Temp °C	30	35	40	45	50	55	60										
B	1.22	1.00	0.84	0.71	0.58	0.48	0.40										
								Ambient Temp °C									
								22	25	30	35	40	45	50			
								C									
								1.04	1.00	0.92	0.85	0.78	0.68	0.56			

The performance of the dryer (pressure dew point, power consumption, pressure drop etc.) depends mainly on the volume flow and pressure of the compressed air to be dried and the condenser refrigerant temperature.

⁽¹⁾ Measured and stated in accordance with ISO 1217 Annex C at the following conditions: Operating Pressure 7 bar, Air Intake Temperature 35°C, Ambient Temperature 25°C, Outlet Dewpoint 3°C.

⁽²⁾ Stated correction factors are **guide values only**.

⁽³⁾ Maximum operating pressure 16 Bar.