CompAir

INTELLIGENT AIR TECHNOLOGY

AU
01

FXT Series

REFRIGERANT AIR DRYERS

24.0 to 90.1 m³/min

Durable & Efficient

With it's advanced stainless steel heat exchanger and low maintenance design, the FXT series high capacity refrigerant dryer will continue saving you money year after year. Offering outstanding electrical power savings and reduced operating costs it's the ultimate energy efficient refrigerant dryer solution.

Design Features

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

User friendly control - The FXT series dryer has an integral LED display controller designed to provide fully automatic operation. It optimises energy usage by intuitively adapting to system needs.

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

Robust design - We've built the FXT series refrigerant dryer with quality components, housing them in an epoxy coated galvanised steel cabinet.

CompAir ➔ FXT - 24.0 to 90.1 m³/min

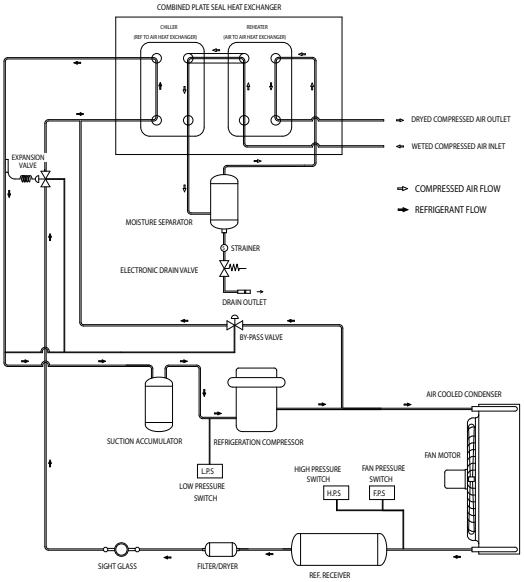
How they work

Warm saturated air from the compressor is rapidly chilled in the air to air heat exchanger by the cold air exiting the air to refrigerant heat exchanger.

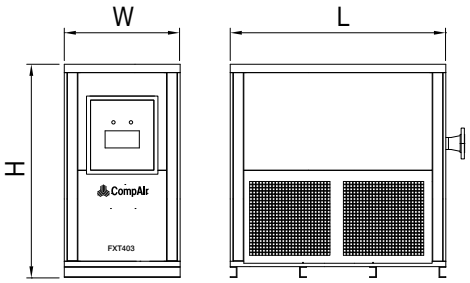
Precooled air then enters the air to refrigerant heat exchanger and is further chilled, causing water vapour in the air to condense.

A moisture separator lowers the velocity of the air and mechanically separates condensate from the air stream. Liquid condensate is removed from the separator by an automatic timed electric drain.

Cool dry discharge air then re enters the air to air heat exchanger where incoming air warms the discharge air, preventing condensation forming on outlet piping.



Technical Specifications



Model	Flow Capacity m³/min[1]	Total Power (kW)	Power Supply (VAC 50hz)	Refrigerant Type	Dimensions (L x W x H) (mm)	Connection (ANSI 150)	Weight (Kg)
FXT240	24.0	4.5	400/3	R407C	1470 x 750 x 1400	DN80	285
FXT314	31.4	6.1			1470 x 750 x 1400	DN100	400
FXT375	37.5	7.6			1470 x 750 x 1400	DN100	440
FXT451	45.1	8.6			1582 x 860 x 1600	DN100	850
FXT600	60.0	9.5			1628 x 1050 x 1800	DN150	1000
FXT750	75.0	10.3			1628 x 1050 x 1800	DN150	1050
FXT901	90.1	11.8			1628 x 1050 x 1800	DN150	1100

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.

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