Atlas Copco

Compressed air dryers

FX-series refrigerant dryers



The high-performance, reliable dry air solution

Atlas Copco FX refrigerant dryers provide the clean, dry air you need with a stable pressure dewpoint as low as 3-5°C. The FX-series is designed in-house and tested using the most stringent methods to ensure strong performance and reliability.

Control panel

Large LCD display with PDP indicator and main on/off switch.

Air/air & air/ refrigerant heat exchanger

3-in-1 high-efficiency heat exchanger ensures high thermal exchange and low load losses.

Dual timer and floater drain

Ensures proper condensate removal.

Capillary tube

Reduces refrigerant pressure and temperature for improved cooling.



Hot gas bypass

- Keeps refrigeration capacity in all load conditions.
- Maintains constant pressure in the evaporator to avoid freezing.

Refrigerant condenser

Air-cooled and with a large exchange surface for high thermal exchange.

Refrigerant compressor

Driven by an electric motor and cooled with refrigerant fluid.

Comes with high-pressure and start-up protection.

Why dry compressed air?

Compressed air contains water vapors, which are the inherent result of the compression process. Left untreated, this saturated compressed air introduces a substantial risk of corrosion in your air system and end products. An air dryer is therefore essential to protect your production.



Performance & reliability

- Stable 3-5°C pressure dewpoint.
- High efficiency thanks to innovative 3-1 heat exchanger.
- Quality gas bypass valve on the full range to manage the risk of heat exchanger freeze.
- Advanced controller to boost dependability and reduce



Energy savings

- Best-in-class refrigerant compressor with low power
- Energy savings thanks to low pressure drop.
- Variable fan speed to save energy.



User friendly & easy maintenance

- Compact design with small footprint.
- Quick plug-and-play installation.
 Digital controller with big LCD screen shows the LAT and running status.
- Effortless access to key components for maintenance.



Environment-friendly

- Eco-friendly refrigerant R134a/R410a with zero ozone depletion potential.
- Low power consumption contributes to lower emissions and a smaller environmental footprint.

Applications

- Pneumatic tools and equipment
- Pneumatic control systems
- Painting Packaging
- · Injection molding Car mechanics
- Tire inflation
- Professional and industrial applications

Technical specifications

Model	Air treatment capacity	Pressure drop	Nominal electrical power @ 50Hz	Maximum working pressure	Voltage	Dimensions		Weight	Connections	
	I/s	bar	w	bar	V/ph/Hz	Length Width He		Height	kg	
						mm	mm	mm	- kg	
FX 6	6	0.28	220	13	230/1/50	517	500	805	50	G 3/4
FX 11	11	0.28	220	13	230/1/50	517	500	805	50	G 3/4
FX 18	18	0.28	550	13	230/1/50	520	550	820	55	G 3/4
FX 25	25	0.28	550	13	230/1/50	520	550	820	55	G 3/4
FX 35	35	0.28	550	13	230/1/50	570	550	820	55	G 1
FX 45	45	0.28	990	13	230/1/50	615	766	875	75	G 1
FX 60	60	0.28	990	13	230/1/50	685	726	875	80	G 1
FX 75	75	0.28	990	13	230/1/50	673	766	955	90	G 1.5
FX 100	100	0.28	1320	13	230/1/50	750	766	955	110	G 1.5
FX 120	120	0.28	1430	13	230/1/50	782	766	995	125	G 1.5
FX 160	160	0.28	1760	13	230/1/50	845	816	995	140	G 2
FX 200	200	0.28	1760	13	230/1/50	845	816	995	140	G 2.5
FX 230	230	0.28	2100	13	230/1/50	960	950	1015	175	G 2.5
FX 285	285	0.28	2800	13	230/1/50	960	950	1015	180	G 2.5
FX 335	335	0.28	2900	13	230/1/50	1045	950	1035	185	G 2.5
FX 400	400	0.28	3500	13	230/1/50	1045	950	1035	190	G 2.5

Refrigerant types:

R134a for FX 6-35, R410a for FX 45-400

Reference conditions:

Ambient temperature: 25°C Inlet temperature: 35°C Working pressure: 7 bar(g)

Limitations:

Maximum ambient temperature: 46°C Minimum ambient temperature: 5°C Maximum inlet temperature: 62°C Maximum working pressure: 13 bar

Correction factors:

Correction factors for different pressure dewpoints										
PDP °C	3	5								
Correction factor	0.7	1								
Correction factors for differen	t ambi	ent tem	peratu	res						
Ambient temperature °C	25	30	35	40	45	46				
Correction factor	1	0.91	0.81	0.72	0.61	0.60				
Correction factors for differen	it inlet i	tempera	atures							
Inlet temperature °C	25	30	35	40	45	50	55	60	62	
Correction factor	1	1	1	0.82	0.67	0.55	0.44	0.36	0.34	
Correction factors for differen	ıt inlet _l	oressur	es							
Inlet pressure (bar)	5	6	7	8	9	10	11	12	13	
Correction factor	0.75	0.88	1	1.08	1.15	1.22	1.28	1.34	1.39	

ISO 8573-1 Class 4 quality

Thanks to their 3°C/38°F pressure dewpoint, Atlas Copco FX dryers can be used for applications that require ISO 8573-1 Class 4 air quality.

Quality classes	Particle size	Maxim pressure d		Maximum oil content (droplets, aerosols, and vapor ppm)					
	microns	°C	°F	w/w	mg/m³				
0	as specified	as spec	as specified		as specified				
1	0.1	-70	-94	0.008	0.01				
2	1	-40	-40	0.08	0.1				
3	5	-20	-4	0.8	1				
4	15	3	38	4	5				
5	40	7	45	21	25				
6	_	10	50	_	_				





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