

# Refrigerant air dryers

FX 1-22

FXHT 1-5



*Atlas Copco*





# Air treatment, a crucial investment

## WHY YOU NEED QUALITY AIR

Compressed air contains oil, solid particles and water vapors. Together, they form an abrasive, often acidic, oily sludge. Without air treatment, this murky mix will enter the compressed air system, corroding pipe work, damaging pneumatic tools and potentially compromising final products.



## THE COST OF POOR AIR QUALITY

Untreated compressed air can cause substantial problems and costs:

- Your air tools have less power, more failures and, ultimately, a shorter lifetime.
- Materials and products that come into contact with untreated air run the risk of contamination or damage.
- Compressed air pipe work will corrode, leading to leaks. For example, a small 1/8 inch leak causes a 3.7 kW per year loss. That means a waste of an estimated \$2000.



# Atlas Copco quality air, the smart choice

## ATLAS COPCO FX: DEPENDABLE DRY AIR

To avoid condensation, compressed air must be dried. The Atlas Copco FX refrigerant dryer is a reliable, cost effective and easy to use solution. Available in 22 sizes (14-2516 cfm), the FX offers a pressure dew point as low as +37.4 °F for a wide range of applications and industries. The dryer can be used at different pressures and consumes hardly any processed compressed air.

## A COMPLETE QUALITY AIR SYSTEM

Atlas Copco offers complete quality air systems that provide the clean, dry air that supports your operational needs.



## FX: THE BENEFITS ADD UP

- Strong performance.
- Pressure dew point display.
- Straightforward reliability.
- Easy installation.
- Minimal maintenance.
- Significant cost savings.



## A NAME YOU CAN TRUST

For more than 100 years, you have turned to Atlas Copco for the better compressors in the business. Our commitment to your operational objectives doesn't end there. Atlas Copco air treatment equipment is developed and tested in-house to offer you quality air with accuracy, reliability and efficiency. Why compromise using third party add-ons when you can extend the Atlas Copco peace of mind to your entire compressed air system?

# FX

## refrigerant dryers

### PRESSURE DEW POINT PRECISION

The FX comes in a wide range of sizes (14-2516 cfm) to offer a steady pressure dew point as low as +37.4 °F. Its easy to use digital display precision-measures and monitors the pressure dew point and dryer performance.



### DIGITAL DISPLAY

- Pressure dew point: exact measurement and visual monitoring.
- Status: refrigerant compressor and fan.
- Alarms: high/low pressure dew point and probe failure.
- Service warning.

### RELIABLE

Built according to the stringent Atlas Copco standards, the FX is made of high quality, generously sized components.

### HOT ENVIRONMENTS

High ambient temperatures can put your equipment to the test. The FX range offers several high temperature models that ensure dependable performance in conditions up to 115 °F.

Digital display: provides peace of mind through precise monitoring of pressure dew point.

Compact design for a small footprint.



Refrigerant separator: no chance of moisture entering the compressed air system.

Single electrical connection: allows for plug-and-play installation.

Hot gas bypass: ensures stable pressure dew point and eliminates the possibility of condensate freezing.

Easy access to key components for straightforward servicing.

Water separator: offers high efficiency for better pressure dew point.

### SIGNIFICANT COST SAVINGS

- Increased reliability and lifetime of tools and equipment.
- Reduced pipe work leaks and thus a lower energy bill.
- Less equipment breakdowns and operational interruptions.
- Minimal chance of product damage as a result of moisture carryover.

### YOUR CHOICE: STANDALONE OR INTEGRATED?

The FX comes as a standalone dryer and as part of the full feature version of many Atlas Copco compressors. Which one is best for you? It all depends on your requirements and priorities ...

#### Separate dryer:

- Plug-and-play installation.
- Single electrical connection.
- All units pre-commissioned.
- Self-regulating.
- Pressure dew point display with high/low pressure dew point alarm and status of refrigerant, compressor and fan.

#### Full feature:

- Saves space when footprint is a priority.
- Compressor and air treatment components are designed, built and tested to work together to provide optimal quality air.



# FXHT

## High inlet temperature refrigerant dryers

QUALITY AIR MADE EASY

### PERFORMANCE

The FXHT dryer range is simple, yet robust and reliable. It is a range that relies on proven technology, solid components and uncomplicated design; these features combined deliver reliable performance at any flow — in almost every manufacturing application.

### HIGH INLET TEMPERATURES

Designed to be used with the high outlet temperatures from piston compressors the integrated pre-cooler allows for 50°F outlet dewpoints even with inlet temperatures of up to 180°F.



### DIGITAL DISPLAY

- Functional display indicating unit operating status
- Status: refrigerant compressor and fan.
- Alarms: high/low pressure dew point and probe failure.
- Service warning.



## FXHT REFRIGERANT DRYER RANGE 60 HZ

Model	Outlet pressure dew point +3 °C/37 °F				Maximum working pressure		Electrical supply	Dimensions						Weight		Compressed air connections
	Inlet capacity		Pressure drop					Length		Width		Height				
	cfm	l/s	psi	bar	psi	bar		mm	inch	mm	inch	mm	inch	kg	lb	
FX 1	25	12	0.52	0.04	232	16	115/1/60Hz	14	355.6	15	381	19	482.6	57	25.9	1/2" NPT
FX 2	50	24	0.76	0.05	232	16	115/1/60Hz	18	457.2	23	584.2	32	812.8	108	49.0	1" NPT
FX 3	75	35	1.83	0.13	232	16	115/1/60Hz	18	457.2	23	584.2	32	812.8	168	76.2	3/4" NPT
FX 4	100	47	3.2	0.22	232	16	115/1/60Hz	18	457.2	23	584.2	41	1041.4	231	104.8	3/4" NPT
FX 5	125	59	3.4	0.23	232	16	115/1/60Hz	18	457.2	23	584.2	41	1041.4	236	107.0	3/4" NPT

## OPTIONAL FILTER SELECTION

Model	Inlet capacity cfm	Filter
FXHT 1	25	UD15+
FXHT 2	50	UD25+
FXHT 3	75	UD45+
FXHT 4	100	UD45+
FXHT 5	125	UD60+

## REFERENCE CONDITIONS

Ambient temperature:	115°F
Inlet temperature:	180°F
Working pressure:	125 psi

## LIMITATIONS

Maximum ambient temperature:	120 °F
Minimum ambient temperature:	41 °F
Maximum inlet temperature:	180 °F

## NOTES

Refrigerant types:	R134a for FX HT 1 R404a for FX HT 2-5
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# Technical specifications 60 Hz

## FX REFRIGERANT DRYER RANGE 60 Hz

Model	Outlet pressure dew point +5 °C/41 °F				Outlet pressure dew point +3 °C/37 °F				Maximum working pressure		Electrical supply	Dimensions						Weight		Compressed air connections
	Inlet capacity		Pressure drop		Inlet capacity		Pressure drop					Length		Width		Height				
	cfm	l/s	psi	bar	cfm	l/s	psi	bar	psi	bar		inch	mm	inch	mm	inch	mm	lb	kg	
FX 1	14	7	2.88	0.2	13	6	2.18	0.2	232	16	115-230/1/60Hz	19.7	500	13.8	350	19.1	484	42	19	1/2" NPT
FX 2	24	12	4.79	0.3	21	10	3.63	0.3	232	16	115-230/1/60Hz	19.7	500	13.8	350	19.1	484	42	19	1/2" NPT
FX 3	35	16	4.79	0.3	30	14	3.63	0.3	232	16	115-230/1/60Hz	19.7	500	13.8	350	19.1	484	44	20	1/2" NPT
FX 4	49	23	4.79	0.3	42	20	3.63	0.3	232	16	115-230/1/60Hz	19.7	500	13.8	350	19.1	484	55	25	1/2" NPT
FX 5	74	35	5.75	0.4	64	30	4.35	0.3	232	16	115-230/1/60Hz	19.7	500	13.8	350	19.1	484	60	27	1/2" NPT
FX 6	95	45	6.14	0.4	83	39	4.64	0.3	189	13	115-230/1/60Hz	19.7	500	14.6	370	31.7	804	112	51	1" NPT
FX 7	122	58	7.29	0.5	106	50	5.51	0.4	189	13	115-230/1/60Hz	19.7	500	14.6	370	31.7	804	112	51	1" NPT
FX 8	146	69	3.45	0.2	127	60	2.61	0.2	189	13	115-230/1/60Hz	22.0	560	18.1	460	32.6	829	135	61	1 1/2" NPT
FX 9	167	79	4.79	0.3	144	68	3.63	0.3	189	13	115-230/1/60Hz	22.0	560	18.1	460	32.6	829	150	68	1 1/2" NPT
FX 10	211	100	3.45	0.2	184	87	2.61	0.2	189	13	115-230/1/60Hz	22.0	560	18.1	460	32.6	829	161	73	1 1/2" NPT
FX 11	264	125	3.84	0.3	229	108	2.9	0.2	189	13	230/1/60Hz	22.0	560	22.8	580	37.0	939	198	90	1 1/2" NPT
FX 12	313	148	5.18	0.4	271	128	3.92	0.3	189	13	230/1/60Hz	22.0	560	22.8	580	37.0	939	198	90	1 1/2" NPT
FX 13	407	192	3.77	0.3	354	167	2.9	0.2	189	13	460/3/60Hz	35.4	898	28.9	735	36.4	1002	381	173	2" NPT
FX 14	488	230	4.79	0.3	424	200	3.63	0.3	189	13	460/3/60Hz	35.4	898	28.9	735	36.4	1002	392	178	2" NPT
FX 15	611	288	6.67	0.5	530	250	5.08	0.4	189	13	460/3/60Hz	35.4	898	28.9	735	36.4	1002	404	183	2" NPT
FX 16	731	345	6.67	0.5	636	300	5.08	0.4	189	13	460/3/60Hz	35.4	898	28.9	735	36.4	1002	404	183	2" NPT
FX 17	899	424	4.07	0.3	848	400	3.63	0.3	189	13	460/3/60Hz	42.6	1082	40.2	1020	61.4	1560	717	325	3" NPT
FX 18	1124	530	4.89	0.3	1060	500	4.35	0.3	189	13	460/3/60Hz	42.6	1082	40.2	1020	61.4	1560	739	335	3" NPT
FX 19	1310	618	5.7	0.4	1236	583	5.08	0.4	189	13	460/3/60Hz	42.6	1082	40.2	1020	61.4	1560	772	350	3" NPT
FX 19.5	1685	795	4.07	0.3	1527	750	3.63	0.3	189	13	460/3/60Hz	42.6	1123	40.2	1020	61.4	1560	838	380	6" ANSI Flange
FX 20	1872	883	4.89	0.3	1766	833	4.35	0.3	189	13	460/3/60Hz	82.6	2099	40.2	1020	61.4	1560	1213	550	6" ANSI Flange
FX 21	2516	1187	4.07	0.3	2374	1120	3.63	0.3	189	13	460/3/60Hz	82.6	2099	40.2	1020	61.4	1560	1323	600	6" ANSI Flange
FX 22	3144	1484	3.7	0.3	2966	1400	3.7	0.3	189	13	460/3/60Hz	82.6	2099	40.2	1020	61.4	1560	1433	650	6" ANSI Flange

## OPTIONAL FILTER SELECTION

Model	Outlet pressure dew point +41 °F		Outlet pressure dew point +37 °F	
	Inlet capacity	Filter	Inlet capacity	Filter
	cfm		cfm	
FX 1	14	UD9+	13	UD9+
FX 2	24	UD15+	21	UD15+
FX 3	35	UD15+	30	UD15+
FX 4	49	UD25+	42	UD25+
FX 5	74	UD45+	64	UD45+
FX 6	95	UD45+	83	UD45+
FX 7	122	UD60+	106	UD60+
FX 8	146	UD100+	127	UD60+
FX 9	167	UD100+	144	UD100+
FX 10	211	UD100+	184	UD100+
FX 11	264	UD140+	229	UD140+
FX 12	313	UD180+	271	UD140+
FX 13	407	UD220+	354	UD180+
FX 14	488	UD310+	424	UD220+
FX 15	611	UD310+	530	UD310+
FX 16	731	UD425+	636	UD310+
FX 17	899	UD425+	848	UD425+
FX 18	1124	UD550+	1060	UD550+
FX 19	1310	UD850+	1236	UD850+
FX 19.5	1685	UD850+	1527	UD850+
FX 20	1872	UD850+	1766	UD850+
FX 21	2516	UD1400+	2374	UD1400+
FX 22	3144	UD1800+	2966	UD1400+

## REFERENCE CONDITIONS

Ambient temperature:	100 °F
Inlet temperature:	100 °F
Working pressure:	102 psi (g)

## LIMITATIONS

Maximum ambient temperature:	110 °F
Minimum ambient temperature:	41 °F
Maximum inlet temperature:	131 °F

\*115 °F for FX 1-16  
\*\*140 °F for FX 17-22

## NOTES

Refrigerant types:	R134a for FX 1-5 R404a for FX 6-7 R410A for FX 8-16 R404a for FX 17-22
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#### Driven by innovation

We are celebrating over 140 years of innovation and experience. Our mission is to continue to bring sustainable productivity through safer, cleaner, more energy efficient, cost-effective compressed air technology. As a result, every compressed air solution we create helps customers operate with greater efficiency, economy, and productivity.



#### Local interaction

Atlas Copco Compressors LLC is headquartered in Rock Hill, SC. We have major sales, manufacturing, production, and distribution facilities located in California, Illinois, Massachusetts, North Carolina, South Carolina, and Texas. We take the best possible care of our customers through regional customer centers and appointed distributors. Across all of our different business types and brands, we have over 100 locations and approximately 5,000 people in the U.S.



#### Committed to sustainability

We are among the top 100 sustainable companies in the world and a member of the Dow Jones World Sustainability Index. Atlas Copco has also been recognized by Forbes, Thomson-Reuters and Newsweek, among others, for our commitment to innovation and sustainability. All Atlas Copco Compressors facilities in the United States are triple certified to ISO 14001, ISO 9001 and OHSAS 18001, a set of standards to protect the environment, ensure product quality, and promote our employees' health and occupational safety.

[www.atlascopco.com](http://www.atlascopco.com)  
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## *Committed to sustainable productivity*

We stand by our responsibilities towards our customers,  
towards the environment, and the people around us.  
We make performance stand the test of time.  
This is what we call – Sustainable Productivity.

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