

Atlas Copco

Oil-free piston compressors

LF 10 (1.5-7.5 kW/2-10 hp)

Clean air for demanding applications

When you need absolutely clean air, "technically oil-free" won't do. Oil-injected compression, even filtered, cannot guarantee that all oil vapors, aerosols and other contaminants are removed from the air. Atlas Copco pioneered the oil-free air technology that eliminates any risk of contamination by oil. What is more, we also set a new standard in air quality as the first manufacturer to be certified ISO 8573-1 Class 0. With our LF 10 series, in addition to absolutely clean air, you also get versatile piston performance, reliable operation in the toughest conditions, and low cost of ownership.



Premium reliability

- Unique, robust design and quality materials ensure extended product life.
- Fan designed for optimal cooling of the air flow also balances the compressor for reduced vibration.
- Patented stainless steel inlet/outlet pump valves.
- Long lifetime of 16,000 hours.



Low operational costs

- IE3 efficiency motor reduces energy use and costs.
- Highly durable components improve performance.
- Start-stop system instead of load-unload.
- Extremely low maintenance costs.



Clean air

- ISO 8573-1 Class 0 pump produces TÜV-certified 100% clean air.
- Dryer and dust particle filters come included as standard in the Full Feature version.
- Elimination of oil changes ensures minimal service requirements.
- Lower total cost of ownership.

State-of-the-art engineering

1

Automotive style **cylinders** made of aluminum alloy with low tolerance finishing for extremely low clearance and minimized friction.

2

Direct drive-coupled motor (IE3)

eliminates transmission losses and decreases footprint.

- Electrical IE3 efficiency motor with IP55 protection and insulation class F.
- The compressor block is directly coupled to the motor and is built with lightweight materials. This provides excellent cooling and smooth integration in small spaces.

3

Single electrical connection for easy, plug-and-play installation.

DESIGNED BY ATLAS COPCO
All Atlas Copco oil-free piston compressors are designed and developed in Atlas Copco's European Piston Competence Center in Italy.



4

In-house designed block with the highest quality **components**:

- Sealed and greased-for-life ball bearings selected for continuous duty and long lifetime.
- Die-cast aluminum crankcase and finned cylinderheads with high cooling characteristics, for long lifetime and efficient operation.

5

All components and service points are easily accessible.



An LF 10 to meet your needs

Choose from different power (2-10 hp) and pressure (2-10 bar) models to meet your exact requirements. Block, Power Pack and Full Feature versions, base or tank-mounted, and a range of options are available for further customization.

LFs 10: the premium oil-free air solution

The Atlas Copco LFs 10 adds low noise and extensive controls to the traditional piston benefits of robustness, low maintenance and energy efficiency. Simply the most complete industrial piston compressor on the market today, the LFs 10 meets all your clean compressed air needs.

Technical specifications

Available for different supplies and models: B, PP, BM, TM and FF

Compressor type	Max. working pressure		FAD @ 50 Hz			FAD @ 60 Hz			Installed motor power		Noise level
	bar	psig	l/min	m ³ /h	cfm	l/min	m ³ /h	cfm	kW	hp	dB(A)
LF 2-10	10	145	186	11.16	6.6	216	12.96	7.6	1.5	2	82
LF 3-10	10	145	240	14.4	8.5	276	16.56	9.7	2.2	3	83
LF 5-10	10	145	492	29.52	17.4	546	32.76	19.3	4	5.5	83
LF 7-10	10	145	660	39.6	23.3	720	43.2	25.4	5.5	7.5	84
LF 10-10	10	145	930	55.8	32.8	1092	65.52	38.6	7.5	10	86

Compressor type	Max. working pressure		FAD @ 50 Hz			FAD @ 60 Hz			Installed motor power		Noise level
	bar	psig	l/s	m ³ /min	cfm	l/s	m ³ /min	cfm	kW	hp	dB(A)
LFs 5-10	10	145	8.2	0.49	17.4	9.1	0.55	19.3	4	5.5	68
LFs 7-10	10	145	11	0.66	23.3	12	0.72	25.4	5.5	7.5	72
LFs 10-10	10	145	15.5	0.93	32.8	18.2	1.1	38.9	7.5	10	74
LFs 15-10	10	145	22	1.32	46.6	24	1.44	50.8	11	15	75
LFs 20-10	10	145	31	1.86	65.6	36.4	2.2	77.8	15	20	77

Notes:

- Comes with a choice of refrigerant, desiccant or membrane dryer technology and appropriate filters.
- Unit performance measured according to ISO 1217, Ed.4, Annex C-2009.
- Mean noise level measured according to ISO 2151/Pneurop/Cagi PN8NTC2 test code; tolerance 3 dB(A).
- B: Block, PP: Power Pack, BM: Base mounted, TM: Tank mounted, FF: Full Feature

Options

- Silenced hood
- Receiver upgrade
- Vertical receiver
- Timer drain
- CD dryer
- Heavy-duty inlet filter
- Wheelset



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