

# Industrial oil-free aluminum piston compressors, 1.5-7.5 kW / 2-10 hp

## LF

Looking for a durable, high-performance compressed air solution for your specific industrial application? Atlas Copco's LF oil-free aluminium piston air compressors stand for exceptional reliability and extremely low operating costs and are virtually maintenance-free. LF compressors are 100% oil-free, so are ideal for your applications where oil can not be tolerated. Incorporating state-of-the-art technology, LF compressors deliver the lowest operating temperatures in the industry while offering superb quality air. High-quality materials ensure reliable performance and extra long life. The LF range is suitable for stand-alone use or easy integration in your OEM product. Also where maintenance-free compressed air is required, LF units are the best solution.

### CUSTOMER BENEFITS

- **High reliability** – Thanks to a unique, robust design and the optimal combination of quality materials, LF compressors offer improved performance and extended product life.
- **Certified 100% oil-free air** – LF compressors provide 100% pure, clean air, complying with ISO 8573-1 CLASS 0 (2010) certification. CLASS 0 means zero risk of contamination; zero risk of damaged or unsafe products; zero risk of losses from operational downtime; and zero risk of damaging your company's hard-won professional reputation. In 2006, Atlas Copco was the first manufacturer in the world to receive such certification for an oil-free compressor.
- **Easy maintenance** – All components and service points are easily accessible.
- **Low running costs** – Operational costs are limited over a long product lifetime.
- **Saving floor space** – The compressor block which is directly coupled to the motor is manufactured using lightweight materials and provides excellent cooling characteristics: ideal for integration with limited space requirements.





LF basic unit



LF Pack-Version  
Base frame with acoustic hood



LF Trolley  
mobile versions with either electric or gasoline engine



LF unit  
tank mounted

Type	Maximum working pressure*		Capacity FAD (50 Hz)			FAD at normal working pressure and 1,800 rpm (60 Hz)			Installed recommended power		Noise level dB(A)**	
	bar(e)	psig	l/s	m <sup>3</sup> /min	cfm	l/s	m <sup>3</sup> /min	cfm	kW	hp	Unsilenced	Base-mounted, silenced
<b>10 BAR LF</b>												
LF 2-10	10	145	3.1	0.19	6.6	3.6	0.22	7.6	1.5	2	82/84	67/69
LF 3-10	10	145	4	0.24	8.5	4.6	0.28	9.7	2.2	3	83/85	68/70
LF 5-10	10	145	8.2	0.49	17.4	9.1	0.55	19.3	4	5.5	83/85	68/70
LF 7-10	10	145	11	0.66	23.3	12	0.72	25.4	5.5	7.5	84/86	72/74
LF 10-10	10	145	15.5	0.93	32.8	18.2	1.1	38.9	7.5	10	86/88	74/76

\* Unit performance measured according to ISO 1217, Ed. 4, 2009, Annex C.

\*\* Mean Noise level\* measured at a distance of 1 m according to ISO 2151/Pneurop/Cagi PN8NTC2 test code; tolerance 3 dB(A).

Reference conditions:

- Absolute Inlet pressure, specify bar(a), ( e ) 1 bar (14.5 psi).
  - Intake air and coolant temperature 20°C, 68°F.
  - 20 bar versions at 20 bar.
  - 30 bar versions at 30 bar.
- Receiver size 10, 15 & 20 bar (218, 290 or 435 psi) versions:  
90, 250 & 475 l (24, 66 & 125 US gallon)

FAD is measured at the following working pressures:

- 10 bar versions at 7 bar.
  - 15 bar versions at 12 bar.
- Standard voltages available:  
50 Hz: 1 ph 230 V, 3 ph 230, 400, 500 V  
60 Hz: 1 ph 230 V, 3 ph 230, 460, 380, 575 V