

# Atlas Copco Stationary air compressors

Oil-free and oil lubricated piston compressor  
2.2 - 5.5 kW / 3 - 7.5 hp



QUALITY COMPRESSORS  
DESIGNED SPECIFICALLY FOR  
THE SNOW MAKING INDUSTRY

**Atlas Copco**



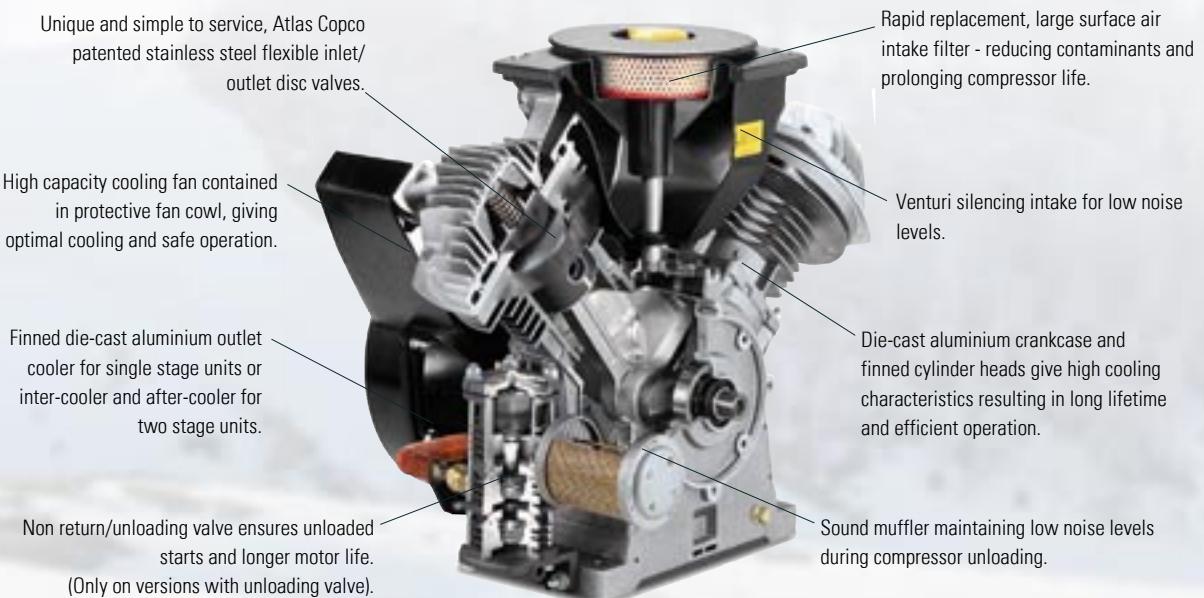
# Atlas Copco's L-range of durable piston compressors, designed for reliable continuous duty and minimum maintenance



The oil-free LF-Snow and oil lubricated LE-Snow piston compressors are based upon the established Atlas Copco L piston range, designed for extended continuous duty operation.

This is made possible by the use of high quality materials, an innovative design in adapting the units for operation in the extreme conditions encountered within the mountain environment.

## L compressor block





# LE/LF-Snow range

## High quality oil-free piston compressors



The oil carry over levels for the LE-Snow compressors are very low (< 0.1 g/kW/h) making the units ideal for continuous duty, mainstream applications and in combination with Atlas Copco quality air products - DD/PD filters, FD refrigerant and CD adsorption air dryers - give the possibility of high quality air packages for more sensitive applications.

The LF-Snow piston range from Atlas copco include sealed for life main bearings, nickel plated cylinders and teflon coated anodized aluminium pistons. This unique combination of materials applied to the proven Atlas Copco block design gives you:

- guaranteed no oil in the system
- an oil-free unit designed for continuous duty with low maintenance
- a perfect alternative to oil lubricated compressors for mainstream applications, or combined with Atlas Copco quality air products offers the best value, highest quality, small capacity compressed air package on the market today.

### Following features and benefits are built into the L Snow range

- Aluminium alloy construction of major components give low overall package weight.
- The unit can operate without interruption at high angles of inclination, often experienced in snow making applications.
- Specially designed air inlet and outlet system allowing trouble-free operation without compressor freeze up in extreme low ambient temperatures. This also avoids ingress of snow-moisture into the compression system during periods of heavy precipitation.
- Direct driven operation by IP 55 electric motor giving extended lifetime and coupled with V-piston arrangement, low vibration.
- Durable internal components giving trouble-free operation with minimum maintenance.
- LF-Snow compressors have an 100 % oil-free operation giving an environmentally friendlier solution than oil-lubricated alternatives and avoiding the need for oil 'top-up' during operation in isolated locations.
- Normal working ambient temperature from -25° to + 5 ° C / -13° to 41° F.



# Operating parameters and Technical data

Compressor type	FAD up to 1 000 meters at 1500 rpm (50 Hz)				Installed recommended power	Noise level	Weight		Dimensions			
	5 bar(e) l/s	7 bar(e) cfm	l/s	cfm			kg lbs	A mm inch	B mm inch	C mm inch		

## Oil-free LF-Snow

LF 4 Snow	<b>6.8</b>	<b>14.28</b>	5.6	11.76	3.0	4.0	76	49	108	530	20.87	510	20.08	690	27.17
LF 5 Snow	<b>9.6</b>	<b>20.42</b>	8.7	18.51	4.0	5.5	76	51	113	547	21.54	510	20.08	686	27.01
LF 7 Snow	<b>12.5</b>	<b>26.25</b>	11.4	23.94	5.5	7.5	80	90	198	600	23.63	592	23.31	865	34.06

## Oil-lubricated LE-Snow

LE 5 Snow	<b>8.6</b>	<b>18.06</b>	8.4	17.8	4.0	5.5	76	51	112	547	21.54	510	20.08	686	27.01
LE 7 Snow	<b>12.4</b>	<b>26.04</b>	11.7	24.8	5.5	7.5	78	90	198	600	23.63	592	23.31	860	33.86
LE 10 Snow	<b>16.3</b>	<b>34.23</b>	15.3	32.13	7.5	10.0	81	102	226	600	23.63	592	23.31	932	36.70

Capacities increase by approx. 20% at 1800 rpm (60 Hz)

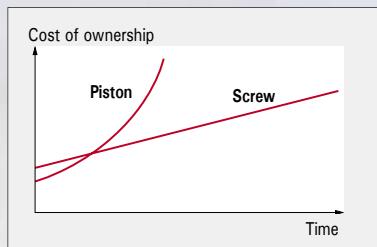
LE 10 Snow not available in 60 Hz

(\*) Unit performance measured according to ISO 1217, Ed. 3, Annex C-1996.

Reference conditions:

- absolute inlet pressure 14.5 psi (1 bar)
- intake air temperature 68°F (20°C)

(\*\*) Mean sound level measured at a distance of 1m according to Pneurop/Cagi PN8NTC2 test code. Tolerance 2 dB(A).



## Cost of ownership

Piston compressors for smaller applications are the most economical way to produce compressed air,

- Minimum Specific energy required
- Minimum maintenance cost
- Easy to serve
- Long lifetime
- simple usage

## Atlas Copco Lubricants

P.A.O. oil is a unique lubricant, specially created for Atlas Copco oil injected LE compressors, offering improved reliability that translates into maximum equipment availability.  
It is a cost-effective lubricant, allowing for extended drain intervals of up to 3 000 hours.



# Oil-free and oil injected screw compressors for centralised snow making installations

Where turnkey centralised snow making systems are considered, Atlas Copco air compressors and quality air solutions equipment is available to provide a source of compressed air at the correct pressure, volume and appropriate level of air quality.

Oil injected screw compressors  
(5 - 415 kW)



Oil-free screw compressors  
(15 - 750 kW)



Quality Air Solutions to supply  
the correct air quality



Atlas Copco V(ariable) S(peed) D(rive)  
range for lowest energy consumption with  
varying compressed air demand



Complete quality air solution



QAS power supply equipment





The face of innovation

What sets Atlas Copco apart as a company is our conviction that we can only excel in what we do if we provide the best possible know-how and technology to really help our customers produce, grow and succeed.

There is a unique way of achieving that – we simply call it the **Atlas Copco way**. It builds on **interaction**, on long-term relationships and involvement in the customers' process, needs and objectives. It means having the flexibility to adapt to the diverse demands of the people we cater for.

It's the **commitment** to our customers' business that drives our effort towards increasing their productivity through better solutions. It starts with fully supporting existing products and continuously doing things better, but it goes much further, creating advances in technology through **innovation**.

Not for the sake of technology, but for the sake of our customer's bottom line and peace-of-mind.

That is how Atlas Copco will strive to remain the first choice, to succeed in attracting new business and to maintain our position as the industry leader.



#### Service competence

Atlas Copco is committed to provide the levels of after-sales care that you require. Our highly trained engineers offer the best possible support and assistance in operating your equipment with the most modern diagnostic tools available.

#### Global capability

Global capability with local presence means that we can respond rapidly to any situation anywhere in the world. Our world class logistics ensures timely delivery of our range of guaranteed quality spare parts.

Never use compressed air as breathing air without prior purification in accordance with local legislation and standards,



#### ISO 9001

From design to production and delivery of compressors. Atlas Copco adheres to the ISO 9001 management system.



#### ISO 14001

Atlas Copco's Environmental Management System forms an integral part of each business.

**Atlas Copco**

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