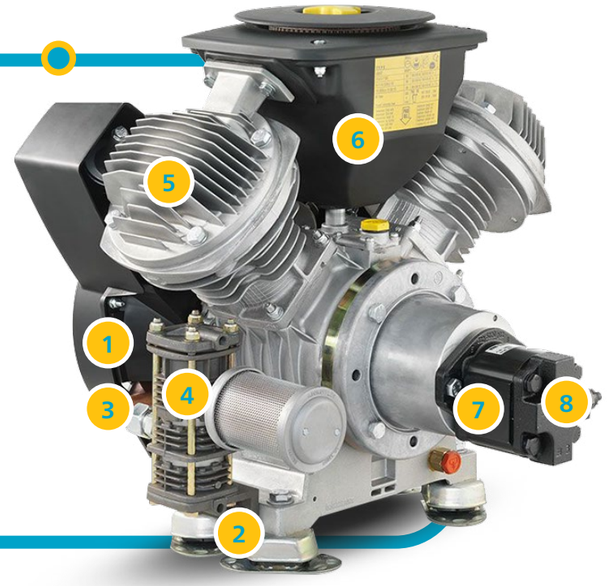
Atlas Copco mobility air systems

Oil lub Piston LER, LTR, Oil-free Piston LFR

Reliable piston performance

Exceptionally reliable at a low cost, LER/LTR oil-lubricated and LFR oil-free aluminum piston compressors are built for high performance and extended lifetime, even in the harshest ambient conditions.

Available from 140 to 1100 l/min (5 to 39 cfm) free air delivery.



1. Optimized fan design for efficient cooling and optimal compressor performance.
2. Railway qualified vibration dampers for a minimum transfer of vibrations from and to the compressor package.
3. High performance finned tube inter- and after-cooler.
4. Load/unload valve with integrated blow- off function and non-return valve for low starting torque and easy control.
5. Top quality direct drive aluminum compressor block in V-arrangement, for a compact and light-weight installation, high performance and extended lifetime even in the harshest ambient conditions.
6. High efficiency industrial air intake filter for trouble-free operation.
7. High efficiency hydraulic motor with superior performance and low noise levels, working even at high hydraulic operating pressures.
8. Hydraulic connections according to international standards

Features and benefits

Space-saving hydraulic drive design

- Compressor type mainly used for auxiliary air in all mobility applications and service vehicles.
- Minimal footprint with one single easy maintenance access side.
- Very compact direct-coupled hydraulic motor.

Enduring performance

- The compressor is designed, built and tested to meet the toughest mobility applications (extreme climatic conditions, high humidity, shocks and vibrations).
- Built in accordance with international railway standards.
- Proven technology used in various applications worldwide.

Reliability and durability

- Minimum amount of moving parts.
- Corrosive resistant materials like stainless steel and aluminum.
- Long service intervals.
- Low maintenance drive concept.

Flexible and easy installation

- Plug and play system.
- Easy access to main connections.
- Integrated load/unload, blow-off and non-return valve.

Variants

High-pressure compressor variant

- Two-stage up to 30 bar.
- Equipped with intercooler for improved efficiency.

Oil-free compressor variant

- No oil in the compressed air.
- Environmentally friendly oil-free piston.
- Less maintenance.

Options

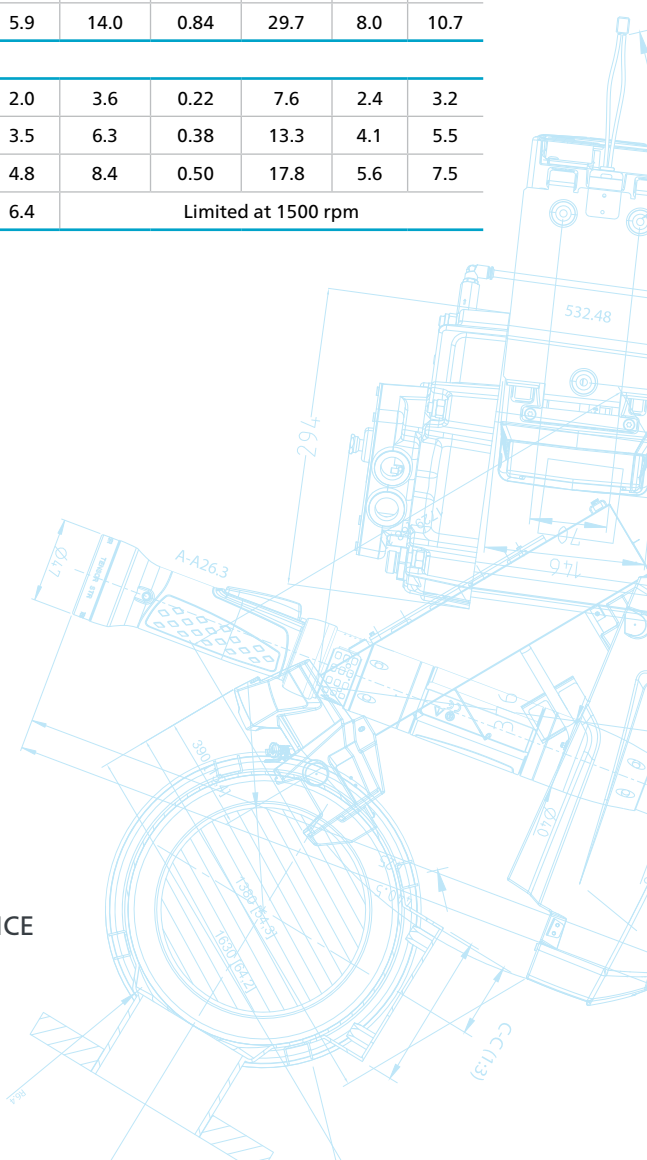
- Heavy duty inlet filter For efficient operation in dusty environments and longer maintenance intervals.
- Railway-qualified vibration dampers For a minimum transfer of vibrations from and to the compressor and motor.
- Protection canopy Protecting the compressor from external particles and to place the compressor outside.
- Different selection of hydraulic motors For an optimal balance between the performance of the compressor and the available hydraulic oil flow and pressure.
- Electric motor High efficiency, totally enclosed fan-cooled (TEFC), IP 55, class F direct coupled railway-approved electric motor with greased-for-life bearings.

Technical specifications

Compressor type	Maximum working pressure		Effective working pressure	FAD at effective working pressure and minimum speed of 1200 rpm (40 Hz)			Installed recommended shaft power		FAD at effective working pressure and maximum speed of 1800 rpm (60 Hz)			Installed recommended shaft power	
	bar(e)	psig	bar(e)	l/s	m³/min	cfm	kW	hp	l/s	m³/min	cfm	kW	hp
10 BAR LER													
LER 3-10	10	145	7	3.5	0.21	7.5	1.5	2.0	5.1	0.31	10.8	2.6	3.5
LER 5-10	10	145	7	6.7	0.40	14.2	2.9	3.8	9.7	0.58	20.6	4.6	6.2
LER 7-10	10	145	7	9.4	0.56	19.8	4.0	5.3	13.6	0.82	28.8	6.2	8.3
LER 10-10	10	145	7	12.6	0.75	26.6	5.7	7.6	18.2	1.09	38.6	8.6	11.5
10 BAR LFR													
LFR 3-10	10	145	7	3.2	0.19	6.8	1.6	2.1	4.6	0.28	9.7	2.3	3.1
LFR 5-10	10	145	7	6.6	0.39	13.9	3.0	4.0	9.1	0.55	19.3	4.3	5.8
LFR 7-10	10	145	7	8.8	0.53	18.6	3.8	5.1	12.0	0.72	25.4	5.8	7.7
LFR 10-10	10	145	7	12.4	0.74	26.3	5.3	7.1	18.2	1.09	38.6	8.6	11.5
15 BAR LTR													
LTR 3-15	15	218	12	3.2	0.19	6.8	1.6	2.1	4.7	0.28	10.0	2.5	3.3
LTR 5-15	15	218	12	5.4	11.4	11.4	2.9	3.9	7.9	0.47	16.7	4.5	6.1
LTR 7-15	15	218	12	7.4	0.44	15.6	4.0	5.4	10.9	0.65	23.1	6.3	8.5
LTR 10-15	15	218	12	9.4	0.56	19.8	5.5	7.4	Limited at 1500 rpm				
20 BAR LTR													
LTR 3-20	20	290	15	2.4	0.14	5.1	1.4	1.8	3.8	0.23	8.1	2.2	2.9
LTR 5-20	20	290	15	4.1	0.24	8.6	2.4	3.2	6.4	0.38	13.6	3.7	4.9
LTR 7-20	20	290	15	5.4	0.33	11.5	3.3	4.4	8.5	0.51	18.0	5.1	6.9
LTR 10-20	20	290	15	7.4	0.45	15.8	4.4	5.9	14.0	0.84	29.7	8.0	10.7
30 BAR LTR													
LTR 3-30	30	435	20	2.3	0.14	4.9	1.5	2.0	3.6	0.22	7.6	2.4	3.2
LTR 5-30	30	435	20	4.0	0.24	8.5	2.6	3.5	6.3	0.38	13.3	4.1	5.5
LTR 7-30	30	435	20	5.4	0.32	11.4	3.6	4.8	8.4	0.50	17.8	5.6	7.5
LTR 10-30	30	435	20	7.3	0.44	15.4	4.8	6.4	Limited at 1500 rpm				

Reference conditions:
Absolute inlet pressure: 1 bar (14.5 psi) Intake air temperature: 20 °C (68 °F)
For the higher pressure variants, the effective working pressure is 12, 15 and 20 bar, see data above Mean noise level measured according to ISO 2151/Pneurop/Cagi PN8NTC2 at 4.6 meter free field Unit performance measured at a standard unit (before dryer) according to ISO 1217, Annex C, latest edition.

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



Atlas Copco Mobility Solution

165 rue Pierre Curie 60230 Chambly FRANCE
Phone: +33 1 393 73 30 00
Reg. no: FR 41 388 163 099

atlascopco.com