

# Oil Flooded Rotary Screw Air Compressors

The ultimate smart solution, driven by efficiency



Atlas Copco's GA compressors bring you outstanding sustainability, reliability and performance, while minimizing total cost of ownership. A choice of three premium compressor types (GA VSD+, GA+ and GA) provides you with the compressed air solution that perfectly matches your requirements with clear value propositions. Built to perform even in the harshest environments, these compressors keep your production running efficiently.



## Premium Compressor

- High-performance Free Air Delivery.
- Premium quality at the lowest initial investment.
- Integrated refrigerant dryer.
- Elektronikon® Touch or Swipe controller.
- **SMARTLINK** real-time, remote monitoring and optimization.



## Smart Performance

- IE4 motor and high-efficiency element.
- In-house developed Smart Temperature Control System ensures oil temperature is always optimal to achieve maximum element efficiency and reliability (on GA 55+ -75+).
- Low noise emission suitable for workplace installation.
- Integrated refrigerant dryer.
- Elektronikon Touch controller.
- **SMARTLINK** real-time, remote monitoring and optimization.
- OPC UA connectivity available.



## + Ultimate Energy Saver

- Up to 50% energy savings compared to fixed-speed models.
- iPM motor exceeds IE5 standards.
- In-house designed Neos inverter and iPM motor exceed IES2 (EN 50598) requirements for power drive efficiency.
- Industry-leading operating turndown range.
- Wide pressure selection: 4-13 bar.
- Start under system pressure, no blow-off.
- Integrated refrigerant dryer.
- Elektronikon Touch controller.
- **SMARTLINK** real-time, remote monitoring and optimization.
- OPC UA connectivity available.

## Oil Free Air Compressors

Atlas Copco has pioneered oil-free air technology for over 60 years. Through continuous research and development, we have become the benchmark for air purity and were the first manufacturer to be awarded ISO 8573-1 Class 0 certification. Today, we offer the largest range of oil-free air compressors and blowers in the industry.



# PISTON COMPRESSORS

## Proven durability

Atlas Copco introduced the first piston compressor in 1904. Since then, we have continuously advanced the technology, most recently with the introduction of our oil-free and high-pressure series. Today, Atlas Copco piston compressors offer you the powerful combination of reliability, flexibility and low operating costs.

### RELIABILITY

- Dependable flow of compressed air directly to the point of use.
- High quality materials for premium performance and long life.
- Limited number of working parts ensures performance in extreme conditions.

**20,000**  
HOUR LIFETIME\*

**100%**  
DUTY CYCLE\*\*

**EXTRA THICK**  
VESSEL WALLS

\* For lubricated models; 16,000 hours for oil-free models  
\*\*For most models

### FLEXIBILITY

- Very wide range of working pressures with a maximum of 300 bar (4353 psi).
- Compact installation.
- Available in oil-free as well as lubricated versions.
- Stand-alone use or easy integration in your process.

### LOW OPERATING COSTS

- Simple maintenance thanks to easily accessible parts.
- Direct drive technology offers major energy savings compared to belt-driven compressors.
- One-bearing motor reduces mechanical friction.

## A complete & flexible range

Count on Atlas Copco piston technology to drive your production reliably and efficiently. We can meet your exact requirements with the broadest compressor portfolio, whether you work in a large industrial plant, a smaller workshop or a clean

technology lab. We even offer customized piston solutions for industries with specific demands (transportation, snow making, ...) as well as for our OEM customers.

### OIL-FREE



**LFX:** Single-stage one-cylinder oil-free reciprocating compressor with a maximum working pressure of 10 bar (145 psi).



**LFXD:** Single-stage oil-free reciprocating compressor with integrated dryers and a maximum working pressure of 10 bar (145 psi).



**LF:** Single-stage two-cylinder oil-free reciprocating compressor with a maximum working pressure of 10 bar (145 psi).



**LZ:** Automatically or Elektronikon® Mk5-controlled single-stage oil-free reciprocating compressor, silenced, with a maximum working pressure of 10 bar (145 psi).

### LUBRICATED



**LE:** Single-stage reciprocating compressor with a maximum pressure of 10 bar (145 psi).

**LT:** Two-stage reciprocating compressor with a maximum pressure of 15, 20 or 30 bar (218, 290 or 435 psi).

### HIGH-PRESSURE



**LB boosters:** Single-stage lubricated air and nitrogen booster with a maximum pressure of 40 bar (580 psi).

Two-stage lubricated nitrogen booster with a maximum pressure of 300 bar (4353 psi).

## YOUR ATLAS COPCO PISTON COMPRESSOR: AN EASY CHOICE

	0.7	1	2	3	4	5	7	10	15	20 hp
<b>OIL-FREE</b>										
<b>LUBRICATED</b>	0.55	0.75	1.5	2.2	3	4	5.5	7.5	11	15 kW
<b>BOOSTER 300 BAR</b> 4353 psi									LB	
<b>BOOSTER 40 BAR</b> 580 psi										LB
<b>30 BAR</b> 435 psi								LT		
<b>10 BAR</b> 145 psi								LE		
										LZ
								LF		
										LFX
										LFXD

# LUBRICATED PISTON COMPRESSORS

## LE & LT series

An Atlas Copco LE/LT compressor is your high-performance industrial air solution. The 10-bar LE and the 15/20/30-bar LT generate quality air at the lowest operating temperatures in the industry and with minimal oil carryover. Their proven design and quality materials deliver premium operation and an extra long life.



### FEATURES & BENEFITS

#### Premium reliability

- A unique, robust design and quality materials ensure an extended product life.
- The fan designed for optimal cooling of the air flow also balances the compressor for reduced vibration.

#### Low running costs

- Use of highly durable components for improved performance.
- Start-stop system instead of load-unload.

#### Easy maintenance

- All components and service points are easily accessible.



#### COMPACT

The LE/LT compressor block is directly coupled to the motor and is built with lightweight materials. This provides excellent cooling and smooth integration in small spaces.

# HIGH-PRESSURE PISTON COMPRESSORS

## LB booster series

When you need the best in booster performance and reliability, the Atlas Copco LB delivers. The LB is the ideal booster for PET bottling and nitrogen applications in power plants or laser cutting. Its piston technology offers industry-leading efficiency with remarkably low noise levels.



### FEATURES & BENEFITS

#### Quiet

- Silent from the core: optimal balancing and use of special vibration dampers.

#### Increased efficiency

- Low Specific Energy Requirement: direct driven technology eliminates friction losses.
- Low electrical peaks with soft start.
- Low mechanical losses: half elastic motor shaft coupling minimizes torque peaks.
- Easy operation.
- Plug-and-play, hose in/hose out solution.

#### Optimal performance

- Innovative oil lubrication system with oil ring and crankshaft channels ensures better lubrication.
- No oil carryover with oil breathing system.

#### Supreme reliability

- Based on proven, reliable LT piston compressor design.
- Inlet and outlet safety valve protection.
- Steel valve plates with innovative zinc-based microspathe coating for additional protection.

#### NEW:

#### ATLAS COPCO NITROGEN SKID

Need nitrogen? How about generating your own? The Atlas Copco LB booster is built into the all-in-one Atlas Copco nitrogen generation skids, available for direct nitrogen use (40 bar) and for direct use and bottling (300 bar).





## OEM APPLICATIONS

### Versatile & sustainable solutions

Tailored to perform non-stop in a wide variety of environments, Atlas Copco's piston compressors are the premium OEM air solution. What is more, our dedicated European Piston Competence Center allows us to maintain a collaborative relationship with our OEM customers, working on both current projects and long term solutions.

#### PERFORMANCE & FLEXIBILITY

It all starts with what we know best: our core piston technology and the proven reliability of our LFx, LE, LT and LF. Next, we optimize their performance within your original equipment by developing a tailored solution together. Our working relationship extends beyond yes/no answers to basic choices such as belt or direct driven, extreme temperatures, clean or harsh environments, single units or custom duplex built, ... The customization possibilities are almost endless.

#### GLOBAL SERVICE

Atlas Copco is a truly global organization with support available 24/7 in more than 150 countries.

#### INDUSTRY-SPECIFIC SOLUTIONS

- Transportation
- Snow making
- Solar fields
- Printing
- Box folding
- Beer production
- ... and many more

## OPTIONS

### Tailor your Atlas Copco piston compressor

✓ = standard  
○ = optional

	LFx & LFD	LF	LZ	LE	LT	LB (40 bar)	LB (300 bar)
Heavy duty filter		○		○	○		
Interstage drain					○		✓
Timer drain	○	○	○	○	○		
CD dryer*	✓	○		○	○		
Hour meter**	○	○	✓	○	○	✓	✓
Hood	✓	○	✓	○	○		✓
Oil level switch				○	○	○	
Auto restart	○	○	✓	○	○		
HP filter						○	○

\*\*Maximum 15 bar.

\* Only DOL 230/50 and 400/50.