

# High-pressure piston booster systems

LB 300 booster 5.5-15 kW/7-20 hp



## High pressure meets superior quality

High-pressure air and industrial gas applications require strong, dependable compression. The Atlas Copco LB 300 booster will reliably meet and exceed your performance requirements. Built to Atlas Copco standards with quality components, this heavy-duty booster is available in different power sizes with a capacity from 85 to 750 l/s.



## Features & benefits



### Silent

- Low-vibration operation thanks to separation of compression block and motor.
- Soundproof design.



### Low total cost of ownership

- IE3 motor and self-tensioning V-belt provide high energy efficiency.
- No-wear piston rings and corrosion-proof cooler pipes ensure long service intervals.



### Reliable performance

- Suitable for continuous operation.
- Integrated oil-water separators for high air and nitrogen quality.
- Automatic condensate drain minimizes pressure losses and noise level.

## Reliable performance



## Standalone & skid

The LB 300 comes as a standalone booster for air and nitrogen. The booster is also part of Atlas Copco's nitrogen skid, which produces high-pressure nitrogen for direct use or bottling.

## Technical specifications

Model	Power		Intake pressure	Max. operating pressure	FAD	Stages	Speed	Noise pressure level (LpA)	Weight	Dimensions (l x w x h)
	hp	kW	bar	bar	l/min		rpm	dBa	kg	mm
LB 7-300	7	5.5	5-11	300	475	2	1230	70	380	1480x830x1520
LB 10-300	10	7.5	7-10	300	645	2	850	71	430	1480x830x1520
LB 15-300	15	11	7-10	300	750	2	1140	73	440	1480x830x1520
LB 20-300	20	15	2-4	300	830	3	1530	75	455	1480x830x1520

## Booster dimensions

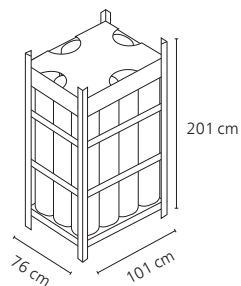


## Bottle racks

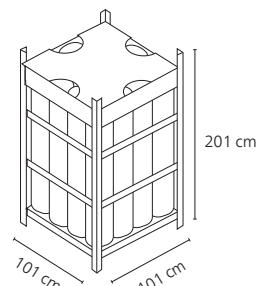
Models	Bottles	Volume	Maximum pressure		Normative	Weight	
	#	liters	bar	psi	type	kg	lbs
12-bottle rack	12	600	300	4350	TPED	1100	2425
16-bottle rack	16	800	300	4350	TPED	1320	2910

## Bottle rack dimensions

### 12-bottle rack



### 16-bottle rack

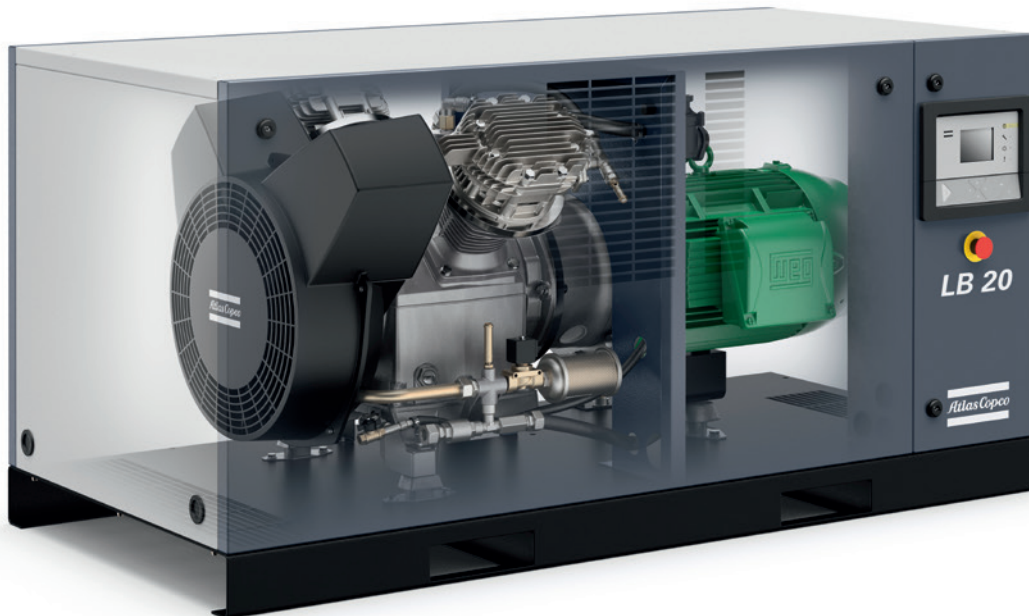




# PISTON BOOSTER SYSTEMS

Atlas Copco

LB air & nitrogen booster range  
(15-20 hp / 11-15 kW)



## PREMIUM BOOSTER PERFORMANCE

When you need the best in booster performance and reliability, the Atlas Copco LB delivers. The LB is the ideal booster for pet bottling or nitrogen applications in power plants or laser cutting. Its piston technology offers industry-leading efficiency with remarkably low noise levels and the Elektronikon® Mk5 user interface for optimal ease of use.

## FEATURES AND BENEFITS

### Quiet

- Silent from the core: optimal balancing and use of special vibration dampers.
- Available with silencing canopy for additional noise attenuation.

### Increased efficiency

- Low Specific Energy Requirement: direct driven technology eliminates friction losses.
- Low electrical peaks: use of soft start technology.
- Low mechanical losses: half elastic motor shaft coupling minimizes torque peaks.

### Easy operation

- Plug-and-play, hose in/hose out solution.
- Available with integrated Elektronikon® Mk5 controller.

### Optimal performance

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

### Supreme reliability

- 100% designed, manufactured and tested by Atlas Copco.
- Based on proven, reliable LT piston compressor design.
- Inlet and outlet safety valve protection.
- Steel valve plates with innovative zinc-based microspate coating for additional protection.



Silencing canopy  
(Elektronikon® Mk5 controlled)



Open version  
(Elektronikon® Mk5 controlled)



Open version  
(pressure switches)

## TECHNICAL SPECIFICATIONS

Compressor type	Maximum inlet pressure		Maximum outlet pressure		Recommended inlet flow @ 50hz		Recommended inlet flow @ 60hz		Outlet flow @ 50hz		Outlet flow @ 60hz		Motor power @ 50hz		Motor power @ 60hz	
	bar	psi	bar	psi	l/s	cfm	l/s	cfm	l/s	cfm	l/s	cfm	kW	hp	kW	hp
LB 15	6	87	40	580	29	61	33	70	24.2	51	28.1	60	11	15	13	17
LB 20	6	87	40	580	48	101	55	116	40	85	46.4	98	15	20	18	24

\* Electrical power  
230/3/50 230/3/60  
380/3/50 460/3/60  
400/3/50 575/3/60  
500/3/50

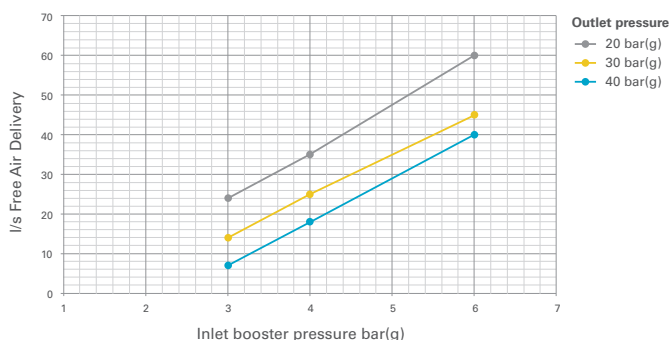
\*\* 50hz units come standard with CE approval;  
60hz units standard with UL approval.

\*\*\* Different voltages are available upon request.

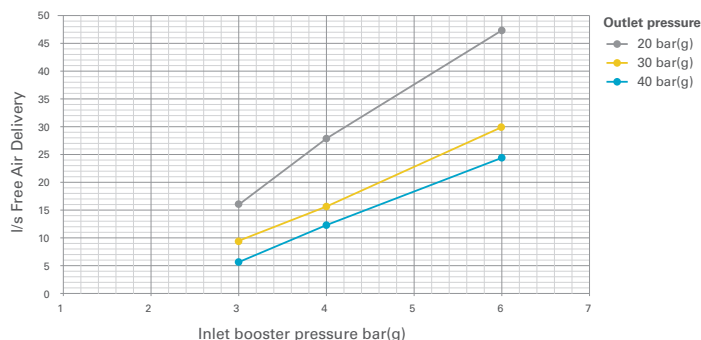
## OPERATIONAL SPECIFICATIONS

A booster is a compressor for which the inlet pressure and inlet flow are linked with the outlet pressure and outlet flow. Selection of the booster is based on the required outlet flow and pressure.

LB 20-50hz



LB 15-50hz



## UPGRADES AND SERVICE KITS

Rely on Atlas Copco to provide you with a complete booster package as well as a full service plan for the entire application chain.

- Factory-mounted options: oil level switch.
- Factory-mounted and sales kits options: inlet pressure regulator (2, 3, 4, 5, 6 and 7 bar), high pressure 50-bar outlet filters PD/DD/QDT, inlet filters PD/DD.
- Sales kits options: aftercooler, high pressure 40-bar vessels (270l, 500l, 1000l and 2000l).

### New: Atlas Copco nitrogen skid

Atlas Copco nitrogen generation skids are now also available for direct nitrogen use (40 bar) and for direct use and bottling (300 bar). Ask your Atlas Copco sales representative for more information.

