

# Single stage air/nitrogen booster

LB series (10-40 hp / 7.5-30 kW)  
From 15 up to 40 bar



High quality  
medium pressure  
2-cylinder  
compressor  
block

## Dependable reciprocating booster system with proven durability

Tailored to perform non-stop in a wide variety of environments, Atlas Copco's booster compressors are the premium air and nitrogen solution. You will obtain an optimally working installation with higher efficiency compared to a medium pressure compressor or even a high pressure network. The belt driven booster series, designed with care, offers you a powerful combination of reliability, flexibility and peace of mind. Combining industry-leading efficiency with innovative block design, it is ideal for PET bottling, testing and nitrogen applications like laser cutting and numerous other purposes. Thanks to the wide power range, flows from 15 l/s to 140 l/s or 50 m<sup>3</sup>/h till 500 m<sup>3</sup>/h can be reached guaranteeing a perfect solution for every application that requires higher pressure.



### INCREASED EFFICIENCY

- Energy efficient IE3 motor
- Low current start-up with star delta start
- New in-house designed compressor block with high performance reed valve



### OPTIMAL PERFORMANCE AND RELIABILITY

- Innovative system for better cylinder lubrication
- Efficient cooling via the large fan and integrated aftercooler (BMC version) resulting in low gas and oil temperatures
- Pre-programmed controller (Elektronikon® Touch)



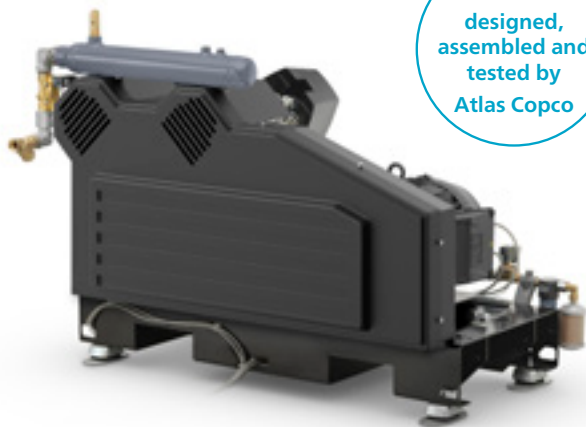
### QUIET OPERATION

- Silent from the core thanks to optimal balancing and use of pulsation dampers
- Designed for low vibration operations
- Inlet and outlet collector absorb pulsation of the network



### PLUG & PLAY AND EASY MONITORING

- Auto monitoring of performance indicators; pressure, temperature, oil-level
- Auto settings of pressure bands
- Optimal performance and running hours with the equal wear control
- Smartlink connection for remote follow-up
- Multiple unit connection



100%  
designed,  
assembled and  
tested by  
Atlas Copco

## Advanced piston technology

- Complete single-stage lubricated air/nitrogen booster with a maximum pressure of up to 40 bar (580 psi)
- Limited oil carryover with oil breathing system and low oil temperatures
- Inlet and outlet safety valve protection
- Steel valve plates with innovative zinc-based microsplate coating

## New, in-house designed medium pressure compressor block

- Built for supreme reliability and next level efficiency
- Featuring a high-performance reed valve, robust roller bearings and a wear-resistant connecting rod with a needle bearing
- Innovative oil lubrication system, efficient cooling and early alert oil level switch
- Optimized cylinder dimensions to reach efficiency at 20 to 40 bar
- Combination of aluminium and cast iron to reduce temperature during operation
- Optimized pump speed and geometry

## Technical specifications

Type	Max. inlet pressure		Max. outlet pressure		FAD @ 50 Hz/60 Hz			Motor power		Motor speed	Dimensions (L x W x H in mm)		Weight (kg)	
	bar	psi	bar	psi	l/s	m <sup>3</sup> /h	cfm	hp	kW	rpm	BM	BMC	BM	BMC
LB 10	5	72.5	25	362.6	28.5	103	60.4	10	7.5	829	1760x751x1044	1660x790x1070	310	365
	10	145	40	580	34.7*	125*	73.5*	10	7.5	603	1760x751x1044	1660x790x1070	310	365
LB 15	5	72.5	25	362.6	35.3	127	74.8	15	10	888	1760x751x1044	1660x790x1070	350	405
	10	145	40	580	48.5	175	102.8	15	10	842	1760x751x1044	1660x790x1070	350	405
LB 20	5	72.5	25	362.6	49.8	179	105.5	20	15	1184	1760x751x1044	1710x790x1070	360	455
	10	145	40	580	63.8	230	135.2	20	15	802	1760x751x1044	1710x790x1070	360	455
LB 25	5	72.5	25	362.6	64.2	231	136.0	25	18.5	1205	NA	1760x830x1070	NA	485
	10	145	40	580	77.5	279	164.2	25	18.5	1003	NA	1760x830x1070	NA	485
LB 30	10	145	40	580	94.2	339	199.6	30	22	1173	NA	1760x830x1070	NA	525
LB 40	10	145	40	580	124.8	449	264.4	40	30	1564	NA	1760x830x1070	NA	575

\* 30 l/s - 108 m<sup>3</sup>/h - 63.6 cfm for 60 Hz

## Upgrades and service kits

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

- EQi (optional)
- Inlet filters (DD+, PD+ and QD+)
- High pressure outlet filters: A special version of coalescing filters and dust filters (maximum pressure 50 bar (725 psi)) is available.
- High pressure vessels and bottles.



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