



Industries & Applications

Manufacturing Industry





Air and N2 is blown into a mold to from the plastic

Laser Cutting



Air or N2 as blow off gas remove molten material

Safety



Pressure-checks are done from 20 till 420bar on brakes, injection systems, valves, fittings.

N2 storage



N2 needs to be compressed to high pressure for bottling

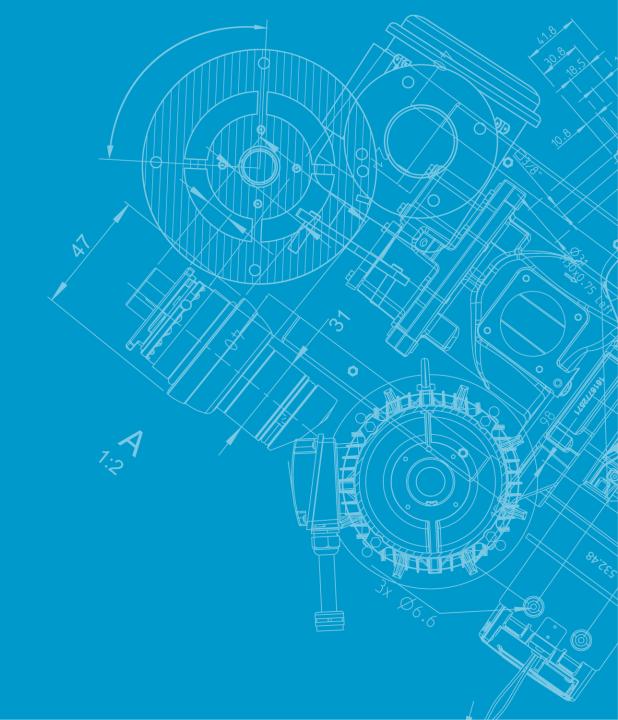
Industrial cleaning



Air up to 300bar is used for pressure washing to remove waste from surfaces



Product Portfolio



Industrial Air product portfolio



COMPRESSOR (SYSTEMS) CONTROLS



PSA oxygen generators 2-200Nm³/h @93%purity

OXYGEN



Membrane N₂ generators 3-172Nm³/h @97%purity

NITROGEN



PSA N₂ generators 10-400Nm³/h@99.5%purity



High pressure N2 packages 7-83Nm³/h @99.99%purity





Desiccant dryers 1-3351/s



Refrigerant dryers 7-4001/s



Membrane dryers 3-551/s



Oil/water separators 12-2500l/s



Drains 50-160001/s



Filters 9-3001/s



After coolers 8-6501/s



Air receivers 120-10.000 l.

AIR TREATMENT



Oil-injected pistons 8-40bar 1-144l/s 1.5-45kW



Oil-free pistons 10bar 1-24l/s 0.55-7.5kW



Oil-injected screw compressors 3.5-13bar 5-385l/s 2-110kW



Oil-free scroll compressors 8-10bar 2-20l/s 1.5-22kW



Oil-free WIS compressors 13bar 22-155I/s 15-55kW



Aircube Solutions

Ttlan Com

24th November 2023

Atlas Copco One-Stop Solution

Compelete solution

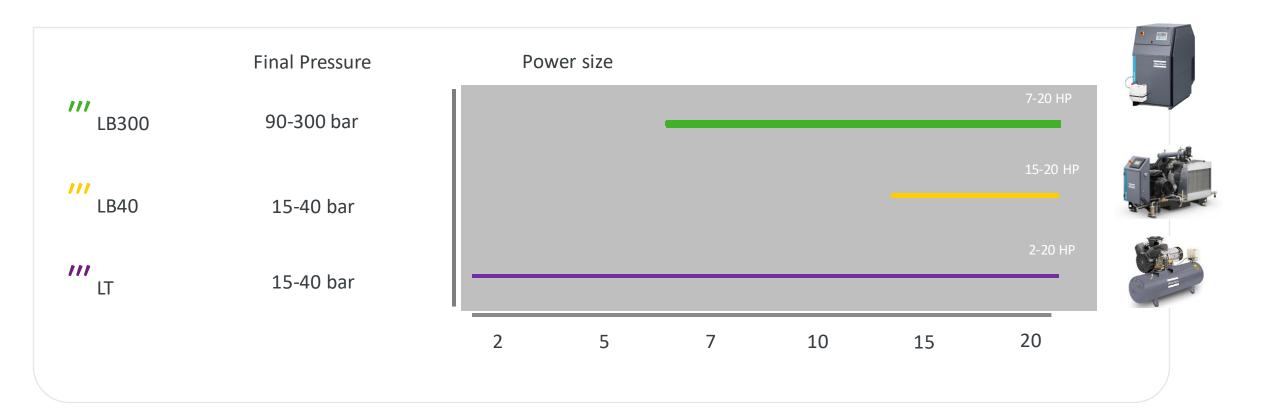
- Compressor
- Dryers
- Filters
- Nitrogen Generator
- High Pressure Dryers
- High Pressure Filters
- Boosters





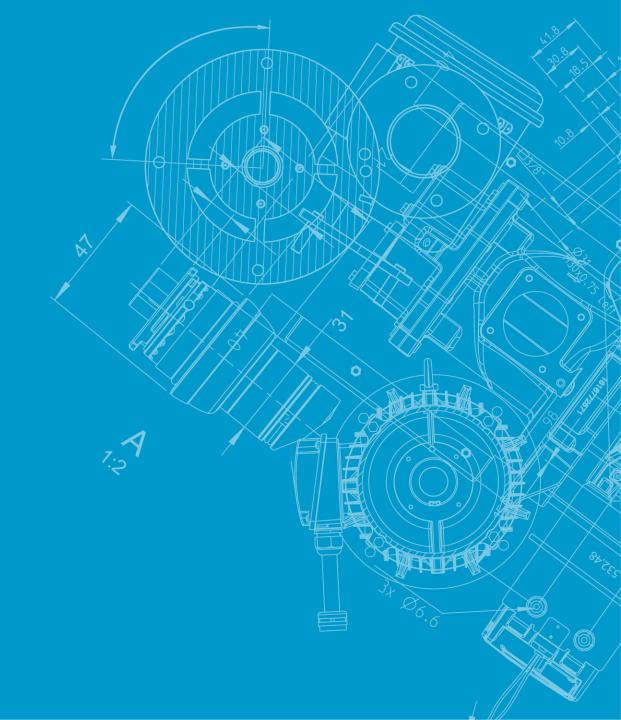
Product portfolio High pressure

Industrial segment





The product



Product highlights



Silent

- Low vibration operation
- Soundproof design



Low total cost of ownership

- Energy efficient
- Long service intervals
- Short service time



Reliable

- High Industrial quality
- Suitable for continuous operations





Silent

Soundproof design









Motor separated from the block

Baffles









Low total cost of ownership

Energy efficient

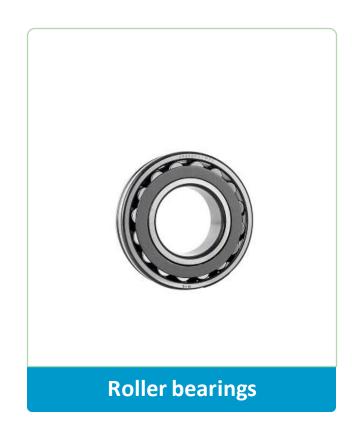














Low total cost of ownership

Long service intervals









Corrosion resistant coolers





Wear-resistant piston ring



Plasma-nitrided Cylinders



Reliable

High Industrial quality



Intermediate& final oil & water separators

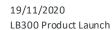


Integrated filter system

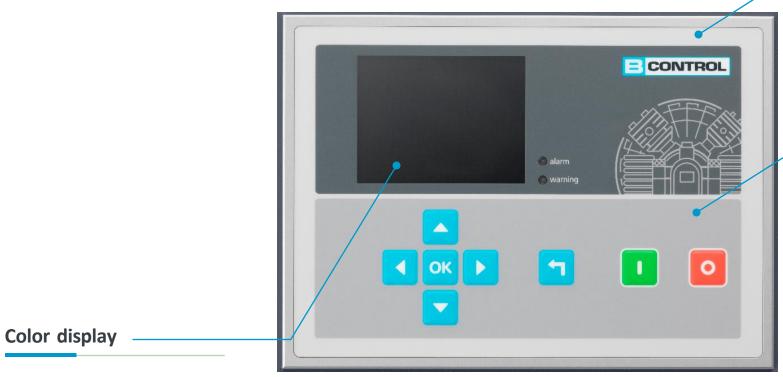


Robust reliable & durable piston block





Control



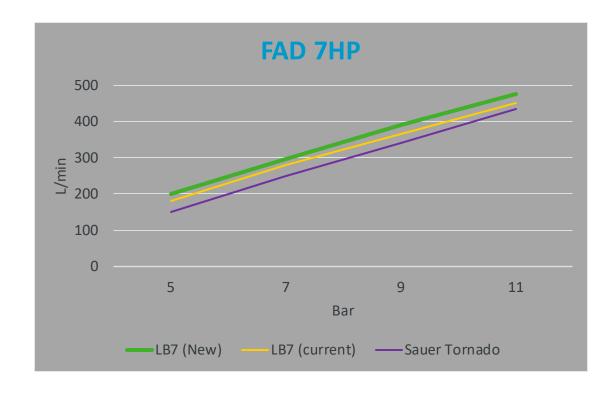
Basic function monitoring

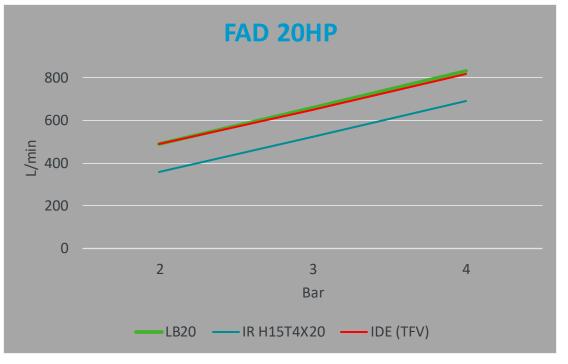
- Service intervals
- In & outlet pressure
- Temp monitoring last stage

Automatic shut down when values exceeds permissible limits



Performance







Footprint



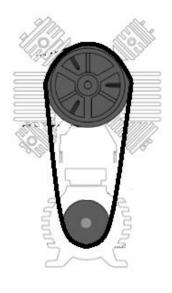
Small footprint

Vertical design

Same dimension for all power sizes

- 1480 x 830 x 1520
- 1,12m²

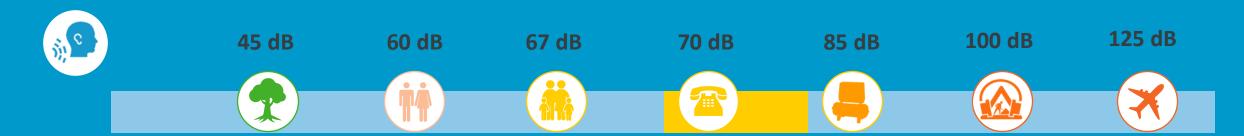






Noise level

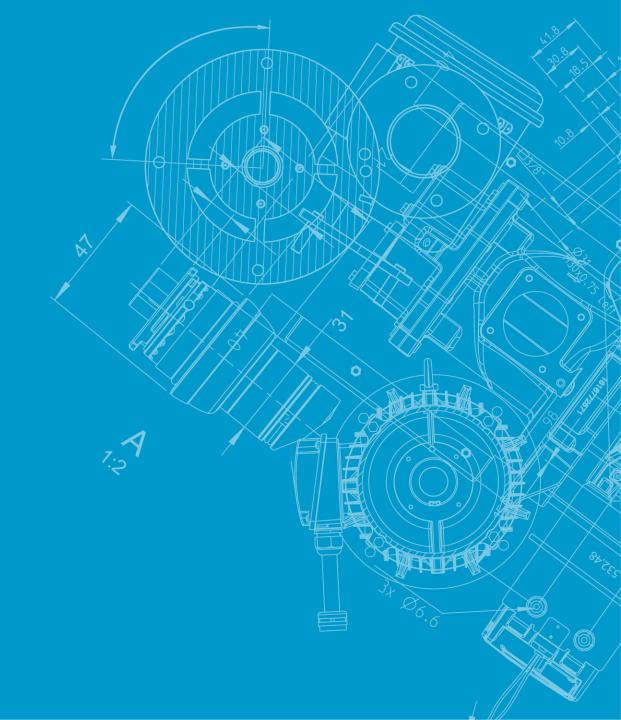




LB7-300	70 dBa
LB10-300	71 dBa
LB15-300	73 dBa
LB20-300	75 dBa

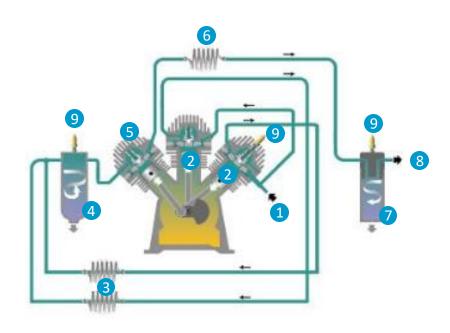


Technology



The flow





Booster

- Piston technology
- Starts from pre-compressed air
- 1. Inlet (5 till 11 bar)
- 2. First stage compression
- 3. Intercooler
- 4. Intermediate separator
- 5. Second stage compression
- 6. Aftercooler
- 7. Final separator
- 8. Outlet
- 9. Safety valves
- 10. Filter

Variants & options

- Standalone for Air & Nitrogen
- **Integrated N2 Skid**

Voltage variants

- 230/50-60Hz
- 400V/50Hz
- 380V/60Hz
- 460V/60Hz

Certification

- CE
- ASME

Options

In- & outlet filters





HP outlet filter 100 & 350Bar
Special version of coalescing
filters and dust filters





THE LB300

Summary

Product

- Silent
- Energy efficient
- Long service intervals
- Reliable
- Designed for 100% duty cycle





Installation

Air configuration

What

Compressor + booster + AT

Applications

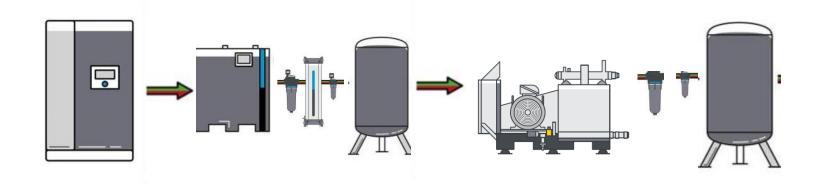
PET molding, Surge protection, leakage testing,...

Field test

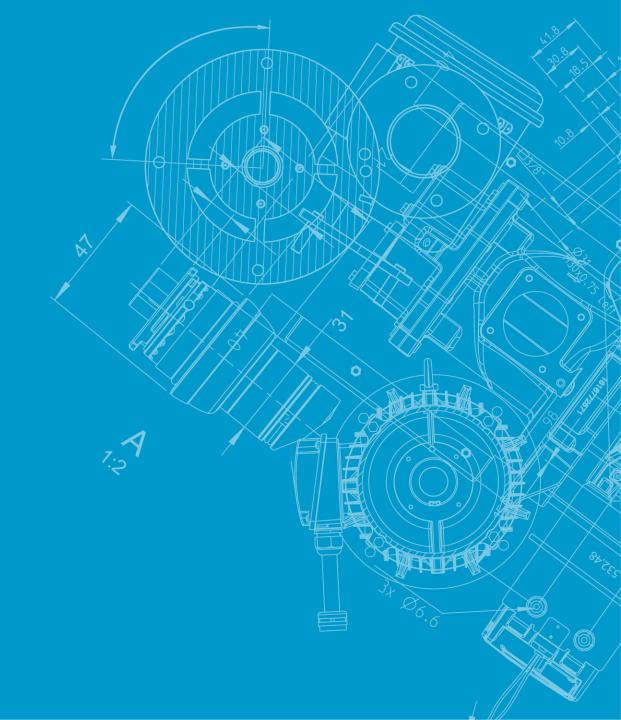
PET blowing installation Turkey

- Commissioned Jan 2022 >2000 load hours
- Increased performance & reduced energy consumption



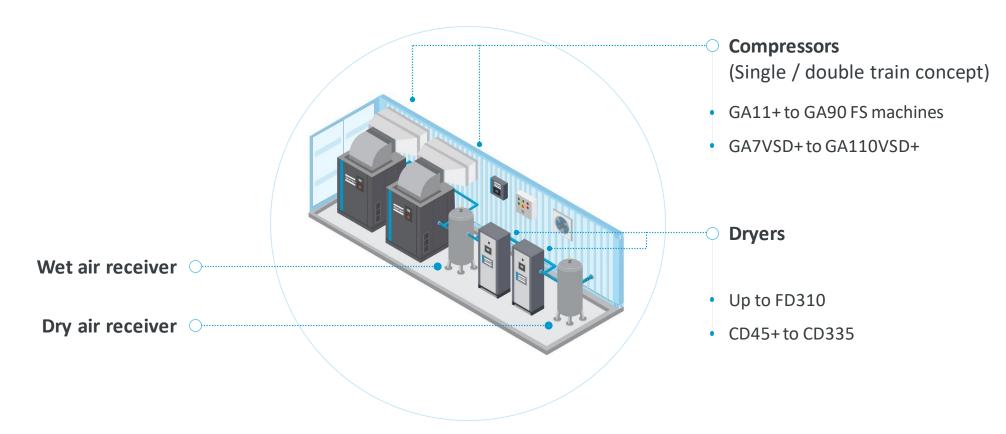


Air Cube



AIRCUBE

Equipment configurations

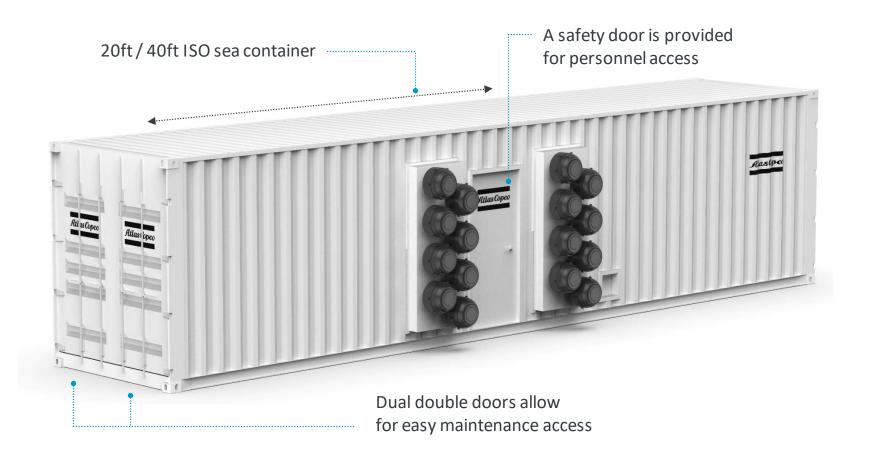


More than 20,000 combinations

30 options for every Container Combination



Container specifications



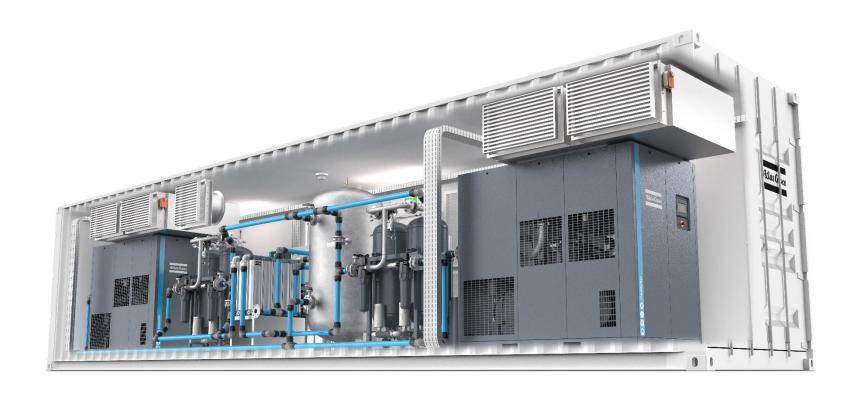
As a safety precaution,
Safety door can be opened
from the inside even if it is
locked from the outside

For 40 ft containers, a second access door can be ordered as an option (Not part of standard scope)



Climatic conditions suitability and Ventilation

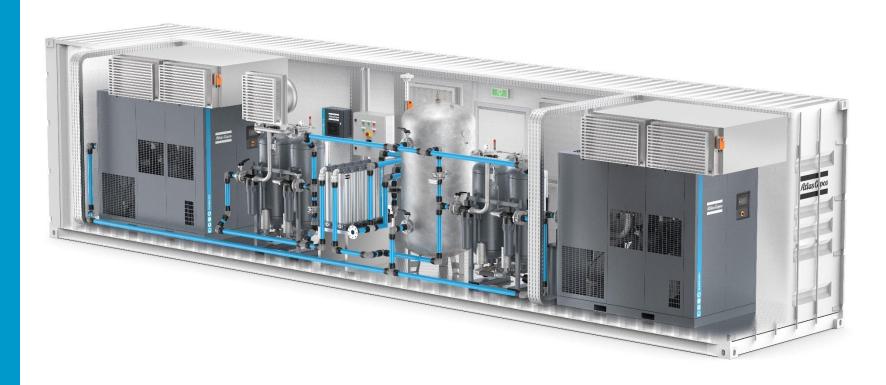
Basic scope
is suitable for
0 °C to +45 °C
Ambient Conditions





Basic scope

Aluminium AIRnet piping





Electrical, Certification and Inspection Scope



- Main power distribution (single tie-in)
 - Power isolation switch
- Lighting
- CE-certified
- Performance tested compressors **Unwitnessed**
- Functional test on the complete package **Unwitnessed**





WANT TO KNOW MORE? SCAN HERE!





Atlas Copco

