

# LENTO

## OIL-FREE SCREW COMPRESSOR







# QUALITY AND INNOVATIONS MADE IN GERMANY.

## Decades of experience and excellent performance

ALMiG is one of the leading compressed air technology system providers and has decades of experience delivering premium products in the compressed air sector. Companies all around the world trust in our customer focused solutions, our quality, innovation and flexibility. Our advanced compressor technologies combine excellence with the quietest possible running performance, optimal energy efficiency and particularly careful conservation of resources.

## Ongoing development and comprehensive industry knowledge

Constant research and development form the essential foundation for the efficiency of every system manufactured by ALMiG. Only these constant enhancements and improvements enable us to react quickly and flexibly to individual customer wishes. This attitude is complemented by a comprehensive understanding of the sector: we understand the challenges that our customers are faced with and the requirements that arise as a consequence. ALMiG offers effective solutions for a wide range of applications – from small craft workshops to medium-sized companies to big industry.

## Complete service and maximum availability

The highest quality technological solutions deserve an equally high level of service. The ALMiG service provisions offer our customers a complete service programme: from providing comprehensive advice to ensuring availability, improving cost-effectiveness and developing energy-saving potential. As an expert partner, ALMiG offers its customers advice and support on all issues. Our goal is to contribute to your economic success with our service offerings.

### **ALMiG: Compressor Systems Made in Germany**

Piston compressors

Screw compressors

Turbo compressors

Scroll compressors

Special installations

Controllers

Compressed air treatment

Services

# LENTO

## Oil-free compressed air of outstanding quality

Our LENTO series generates 100% oil-free compressed air for all applications, where products of the highest quality are produced. Given that only water, the most natural of all raw materials, is used in the compression process, LENTO delivers maximum compressed air quality for highly sensitive areas e. g. the pharmaceutical, foodstuffs, electrical engineering and medical industries.

The speed-controlled direct drive of the LENTO series delivers maximum cost-effectiveness by precisely matching the volume flow to the respective compressed air requirement. The integrated refrigeration dryer ensures a low pressure dew point. Therefore, under certain circumstances, the customer doesn't need a separate refrigeration dryer. This avoids costs for the fresh water supply and water processing and minimises service and maintenance costs compared with other oil-free compression systems.

### Clean and ecological solution:

- Clean, environmentally friendly oil-free compressed air: ISO class 0, certified in accordance with DIN ISO 8573-1:2010
- Dust particles that are drawn in are washed out by the water
- Clean condensate – pure water – can be discharged directly into the sewer system
- Very low temperatures during compression thanks to excellent heat transfer via the water. Reduced amounts of energy are therefore used to generate the compressed air

### Application

100% oil-free compressed air for industrial use (pharmaceutical, food, chemical, etc.)

### Power output

15 - 110 kW

Volume flow acc. to ISO 1217  
(Annex C-2009)

1.01 - 19.60 m<sup>3</sup>/min

### Operating pressure

5 - 10 bar

### Cooling

Water-cooled (standard)

Air-cooled (option)

Only water-cooled available as of LENTO 76

### Drive

Direct and speed-controlled

### Motor

Energy efficiency class IE 3;  
IP 55 protection, protection class F



- + 100% oil-free compressed air generation
- + Volume flow can be adapted exactly to meet compressed air requirements
- + No switching cycles or expensive idle times
- + Energy-saving soft start without current peaks
- + Operating pressure can be freely selected between  $p_{\min}$  –  $p_{\max}$  in 0.1 bar/1.5 psig increments
- + The reduction in pressure can save money



**SCD direct drive**

Zero-loss power transfer

**Compressor**

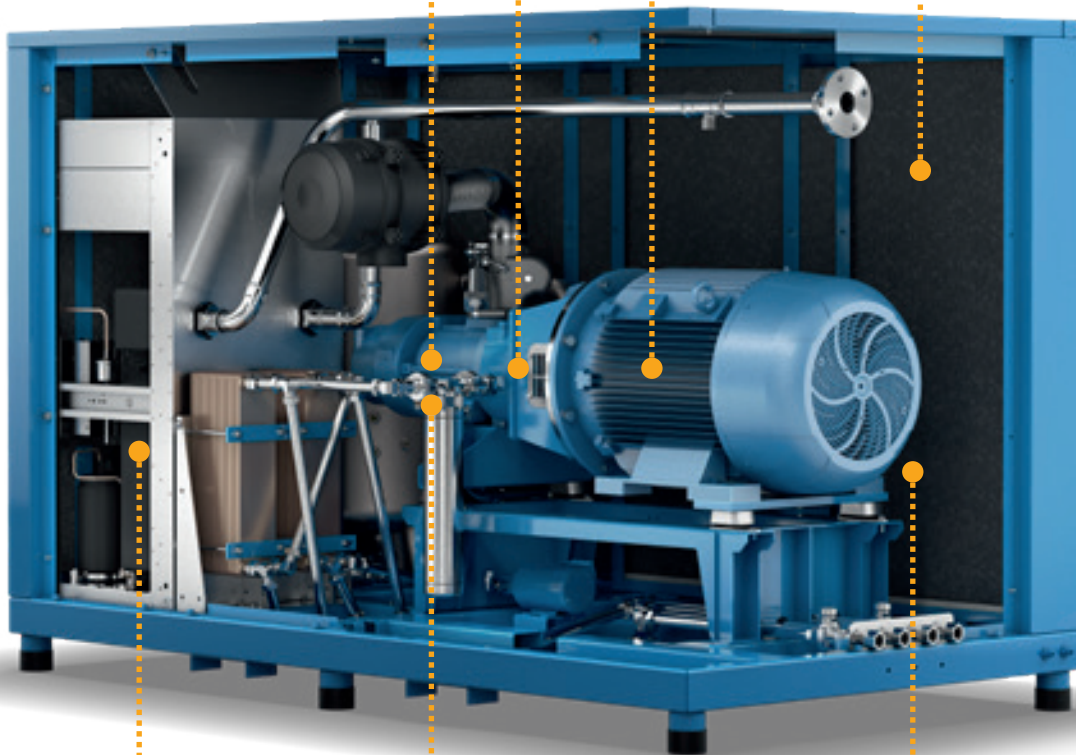
Single-stage, water-injected; very low compression temperatures of <math><60^{\circ}\text{C}</math>, close to isothermic, economical compression

**Air Control**

Smart controller that monitors, visualises and documents

**SCD motor**

Highly efficient drive motor, IP 55 protection class ISO F; compact, powerful, reliable



**Stainless steel piping**

**Integrated refrigeration dryer**

Permanent generation and exchange of the required coolant, optimum biological and chemical water quality, for dry compressed air at the compressed air outlet

**SCD frequency converter**

The integrated power pack, according to EMC guidelines

Suitable controllers:

**AIR CONTROL P**



Standard

**AIR CONTROL HE**



Optional

Controllers starting on p.54

# LENTO



LENTO 15 - 55, air-cooled

| 50 Hz speed-controlled |                        |   |                     |                   |        |       |        |
|------------------------|------------------------|---|---------------------|-------------------|--------|-------|--------|
| LENTO                  | Operating overpressure | Volume flow<br>acc. to ISO 1217 (Annex C-2009)* |                     | Rated motor power | Length | Width | Height |
|                        |                        | min.  | max.                |                   |        |       |        |
|                        | bar                    | m <sup>3</sup> /min                             | m <sup>3</sup> /min | kW                | mm     | mm    | mm     |
| 15                     | 5-10                   | 1.01  | 2.34                | 15                | 1880   | 850   | 1660   |
| 18                     | 5-10                   | 1.01  | 2.87                | 18.5              | 1880   | 850   | 1660   |
| 22                     | 5-10                   | 1.01  | 3.38                | 22                | 1880   | 850   | 1660   |
| 30                     | 5-10                   | 1.01  | 4.30                | 30                | 1880   | 850   | 1660   |
| 31                     | 5-10                   | 2.04  | 5.08                | 30                | 2300   | 1400  | 1560   |
| 37                     | 5-10                   | 2.04  | 6.14                | 37                | 2300   | 1400  | 1560   |
| 45                     | 5-10                   | 2.04  | 7.13                | 45                | 2300   | 1400  | 1560   |
| 55                     | 5-10                   | 2.04  | 8.19                | 55                | 2300   | 1400  | 1560   |
| 46                     | 5-10                   | 2.49  | 8.18                | 45                | 2674   | 1769  | 1400   |
| 56                     | 5-10                   | 2.49  | 9.86                | 55                | 2674   | 1769  | 1400   |
| 75                     | 5-10                   | 2.49  | 12.46               | 75                | 2674   | 1769  | 1400   |
| 76                     | 5-10                   | 4.06  | 13.82               | 75                | 3448   | 1500  | 1927   |
| 90                     | 5-10                   | 4.06  | 16.43               | 90                | 3448   | 1500  | 1927   |
| 110                    | 5-10                   | 4.06  | 19.60               | 110               | 3448   | 1500  | 1927   |

\* V relates to an operating overpressure of 7 bar at 50 Hz / 100 psig at 60 Hz; LENTO 15–70 (15 / 20–70 / 95) water-cooled as standard, air-cooled as an option; LENTO 75 D (75 / 100 D) and LENTO 80–110 (LENTO 80 / 105–110 / 150) only available as water-cooled



LENTO 46 - 110

| 60 Hz speed-controlled |                        |   |      |                   |        |       |        |
|------------------------|------------------------|---|------|-------------------|--------|-------|--------|
| LENTO                  | Operating overpressure | Volume flow<br>acc. to ISO 1217 (Annex C-2009)* |      | Rated motor power | Length | Width | Height |
|                        |                        | min.  | max. |                   |        |       |        |
|                        | psig                   | acfm  | acfm | HP                | inch   | inch  | inch   |
| 15                     | 75-145                 | 36  | 83   | 20                | 74     | 33.5  | 65.4   |
| 18                     | 75-145                 | 36  | 103  | 25                | 74     | 33.5  | 65.4   |
| 22                     | 75-145                 | 36  | 121  | 30                | 74     | 33.5  | 65.4   |
| 30                     | 75-145                 | 36  | 153  | 40                | 74     | 33.5  | 65.4   |
| 31                     | 75-145                 | 72  | 182  | 40                | 90.6   | 55.1  | 61.4   |
| 37                     | 75-145                 | 72  | 220  | 50                | 90.6   | 55.1  | 61.4   |
| 45                     | 75-145                 | 72  | 255  | 60                | 90.6   | 55.1  | 61.4   |
| 55                     | 75-145                 | 72  | 292  | 75                | 90.6   | 55.1  | 61.4   |

LENTO 46 - 110 in 60 Hz Version on request

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