

OIL-FREE SCREW COMPRESSOR LENTO



oil-free



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 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

LENTO I: 15 – 30 kW
LENTO II: 30 – 55 kW
LENTO III: 45 – 80 kW
LENTO IV: 80 – 130 kW

Volume flow acc. to ISO 1217 (Annex C-1996)

1.01 – 18.03 m³/min

Operating pressure

LENTO I & II: 5 – 10 bar
LENTO III & IV: 5 – 13 bar

Cooling

Water-cooled: (standard)
Air-cooled: (option)
Only water-cooled available as of LENTO 80

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 <60°C, close to isothermic, economical compression

SCD motor

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

Air Control

Smart controller that monitors, visualises and documents

Suitable controllers:

AIR CONTROL P



Standard

AIR CONTROL HE



Optional

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

LENTO



LENTO 15–30, air-cooled



LENTO 80, water-cooled

50 Hz speed-controlled								
LENTO	Operating overpressure	Volume flow acc. to ISO 1217 (Annex C-1996)*		Rated motor power	Length	Width	Height	Weight
		min.	max.					
	bar	m³/min	m³/min	kW	mm	mm	mm	kg
15	5–10	1.01	2.34	15	1880	850	1660	850
18	5–10	1.01	2.87	18.5	1880	850	1660	860
22	5–10	1.01	3.38	22	1880	850	1660	870
30	5–10	1.01	4.30	30	1880	850	1660	920
31	5–10	2.04	5.08	30	2300	1400	1560	1470
37	5–10	2.04	6.14	37	2300	1400	1560	1520
45	5–10	2.04	7.13	45	2300	1400	1560	1550
55	5–10	2.04	8.19	55	2300	1400	1560	1590
46	5–13	2.51	8.58	45	2300	1400	1560	1700
56	5–13	2.51	9.97	55	2300	1400	1560	1750
70	5–13	2.51	11.56	70	2300	1400	1560	1800
80	5–13	2.51	12.28	80	2300	1400	1560	1850
81	5–13	4.57	15.50	80	2800	1400	1910	2150
90	5–13	4.57	17.23	90	2800	1400	1910	2280
110	5–13	4.57	18.03	130	2800	1400	1910	2280

60 Hz speed-controlled								
LENTO	Operating overpressure	Volume flow acc. to ISO 1217 (Annex C-1996)*		Rated motor power	Length	Width	Height	Weight
		min.	max.					
	psig	acfm	acfm	HP	inch	inch	inch	lbs
15/20	75–145	36	83	20	74	33.5	65.4	1875
18/25	75–145	36	103	25	74	33.5	65.4	1895
22/30	75–145	36	121	30	74	33.5	65.4	1920
30/40	75–145	36	153	40	74	33.5	65.4	2030
31/41	75–145	72	182	40	90.6	55.1	61.4	3240
37/50	75–145	72	220	50	90.6	55.1	61.4	3350
45/60	75–145	72	255	60	90.6	55.1	61.4	3420
55/75	75–145	72	292	75	90.6	55.1	61.4	3510
46/61	75–190	89	306	60	90.6	55.1	61.4	3750
56/76	75–190	89	355	75	90.6	55.1	61.4	3860
70/95	75–190	89	412	95	90.6	55.1	61.4	3970
80/105	75–190	89	440	105	90.6	55.1	61.4	4080
81/106	75–190	161	554	105	110.2	55.1	75.2	4740
90/125	75–190	161	615	125	110.2	55.1	75.2	5030
110/150	75–190	161	637	175	110.2	55.1	75.2	5030

* 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

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Subject to errors and modifications

