ALMiG Compressor Systems

LENTO

Screw compressor

100% oil-free compression process

oil-free



5 YEARS AirCare
CERTIFIED WARRANTY COVERED BY ALMiG
TERMS & CONDITIONS APPLY

TOP ENERGY EFFICIENCY

QUALITY AND INNOVATIONS MADE IN GERMANY

Decades of experience and outstanding performance

ALMiG is one of the leading system providers in compressed air technology and stands for decades of experience with top-quality products in the compressed air industry. Companies all over the world rely on our customer-focused solutions, our quality, innovation and flexibility. Our advanced compressor technologies combine excellent performance with minimum noise level, optimal energy efficiency and a particularly resource-friendly approach.

Continuous development and comprehensive industry knowledge

The key to the efficiency of every system manufactured by ALMiG is continuous research and development. For it is only through constant development and improvement that we are able to respond quickly and flexibly to individual customer requirements. This approach is complemented by extensive industry expertise: we understand our customers' challenges and know what requirements these entail. ALMiG offers efficient solutions for a wide range of applications – from small craft businesses and medium-sized enterprises to large-scale industry.

Comprehensive service and maximum availability

High-quality technological solutions deserve a service to match. ALMiG's services offer our customers a comprehensive service programme: from in-depth consultancy and ensuring availability to boosting cost-effectiveness and unlocking energy-saving potential. ALMiG stands by every customer as a competent partner for all enquiries. Our aim is to contribute to your business success through our services.

Sustainability and environmental awareness

ALMiG stands for efficient and environmentally friendly compressed air solutions. Our oil-free compressors and compressed air treatment systems are continuously developed to reduce energy consumption, minimise emissions and conserve resources – for a high-performance, economical and sustainable compressed air supply.

ALMiG Compressor Systems
Made in Germany

piston compressors
screw compressors
turbo compressors
customised systems
control systems
compressed air treatment
services





Our solutions are used across a wide range of demanding industries and are synonymous with quality, innovation and reliability. In the **food and beverage industry** , they ensure the highest hygiene standards and efficient production processes. The **electrical industry** benefits from precise and high-performance technologies for modern manufacturing environments. In the **textile industry**, they support flexible processes that are gentle on materials.

In the **medical technology**, our applications contribute to maximum precision and safety, whilst in the **chemical industry** they impress with their durability and process reliability. In addition, the **pharmaceutical industry** meets the highest standards of purity, control and quality.

This is how we create cross-sector solutions that boost efficiency and shape the future.

LENTO

High-quality oil-free compressed air

The demand for high-quality, 100% oil-free compressed air is not only in the pharmaceutical, food, electrical and medical sectors, but is used wherever products of the highest quality are manufactured. That is why ALMiG, with its oil-free compressors from the LENTO series, focuses on maximum compressed air quality for the most sensitive applications. Only water – the most natural of all raw materials – is used in the compression process.

The speed-controlled direct drive of the LENTO series offers maximum cost-effectiveness through the precise adjust ment of the air flow to the respective compressed air demand. The integrated refrigeration dryer ensures a low compressed air dew point. Consequently, a separate refrigeration dryer may not be required on site. This avoids costs for fresh water and water treatment and reduces service and maintenance compared to other oil-free compression systems.

A clean and environmentally friendly solution:

- Clean, environmentally friendly oil-free compressed air: ISO Class 0, certified to ISO 8573-1:2010
- Dust particles drawn in are washed out by the water
- Clean condensate – pure water – can be discharged directly into the mains drainage system
- Lowest temperatures during compression thanks to optimal heat dissipation via the water, resulting in minimal energy consumption for compressed air generation

Application

100% oil-free compressed air for industry (pharmaceuticals, food, chemicals, etc.)

Capacity

15– 110 kW

Air flow rate in accordance with ISO 1217 (Annex C-2009)

0.72–19.60 m3/min

Operating pressure

5–12 bar

Cooling

Water-cooled (standard)
Air-cooled (Option up to LENTO 75)
From LENTO 76 onwards, only water cooling is available

Drive

Direct and speed-controlled

Motor

Energy efficiency class IE 4; IP 55; Protection class F



+ 100% oil-free compression process
+ Precise adjustment of the air flow to the current compressed air demand
+ Prevention of cycling and costly idle times
+ Energy-saving start-up without current peaks
+ Freely selectable operating pressure between p_{min} – p_{max} in 0.1 bar/1.5 psig increments
+ Cost savings possible through targeted pressure reduction

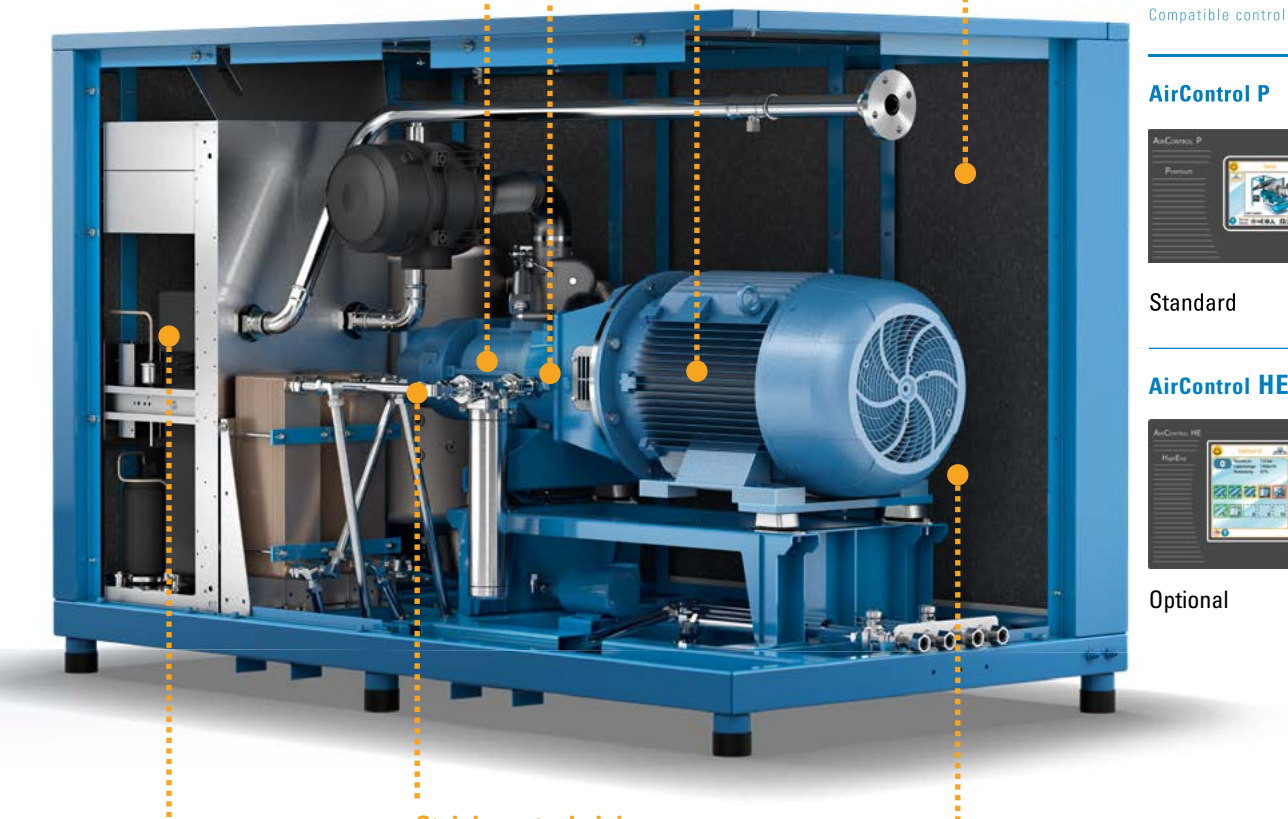
5 YEARS AirCare
CERTIFIED WARRANTY COVERED BY ALMiG
TERMS & CONDITIONS APPLY

SCD Direct Drive
Loss-free power transmission

Compressor
Single-stage, water-injected, Lowest compression temperature <60°C, close to the economic isothermal compression

AirControl
Intelligent control system that monitors, visualises and documents

SCD Motor
Highly efficient drive motor IE4, compact, powerful, reliable



Compatible control systems:

AirControl P


Standard

AirControl HE


Optional

Stainless steel piping

Integrated refrigeration dryer
Continuous generation and replacement of the required cooling water, optimal biological and chemical water quality, for dry compressed air upon entry into the compressed air network

SCD Frequency Converter
The integrated power package, compliant with EMC directives

LENTO



LENTO 46–110

50 Hz – Water cooling

LENTO	Operating pressure	Air flow rate in accordance with ISO 1217 (Annex C-2009)*		Engine power	Length	Width	Height
		min.	max.				
Model	bar	m³/min	m³/min	kW	mm	mm	mm
15	5 - 12	0,73	2,42	15	1880	850	1660
18	5 - 12	0,73	2,99	18,5	1880	850	1660
22	5 - 12	0,73	3,51	22	1880	850	1660
30	5 - 12	0,73	4,23	30	1880	850	1660
31	5 - 12	2,04	5,08	30	2300	1400	1560
37	5 - 12	2,04	6,14	37	2300	1400	1560
45	5 - 12	2,04	7,13	45	2300	1400	1560
55	5 - 12	2,04	8,19	55	2300	1400	1560
46	5 - 12	2,49	7,36	45	2750	1400	1769
56	5 - 12	2,49	9,58	55	2750	1400	1769
75	5 - 12	2,49	12,46	75	2750	1400	1769
76	5 - 12	4,26	12,92	75	3580	1600	1930
90	5 - 12	4,26	15,79	90	3580	1600	1930
110	5 - 12	4,26	20,01	110	3580	1600	1930

* based on an operating pressure of 7 bar at 50 Hz



LENTO 15–55

50 Hz - Air cooling

LENTO	Operating pressure	Air flow rate in accordance with ISO 1217 (Annex C-2009)*		Engine power	Length	Width	Height
		min.	max.				
Model	bar	m^3/min	m^3/min	kW	mm	mm	mm
15	5 - 12	0,73	2,42	15	1880	850	1985
18	5 - 12	0,73	2,99	18,5	1880	850	1985
22	5 - 12	0,73	3,51	22	1880	850	1985
30	5 - 12	0,73	4,23	30	1880	850	1985
31	5 - 12	1,98	5,00	30	2300	1400	2265
37	5 - 12	1,98	6,00	37	2300	1400	2265
45	5 - 12	1,98	6,94	45	2300	1400	2265
55	5 - 12	1,98	7,88	55	2300	1400	2265
46	5 - 12	2,49	7,36	45	2750	1400	2328
56	5 - 12	2,49	9,58	55	2750	1400	2328
75	5 - 12	2,49	12,46	75	2750	1400	2328

Further information

* based on an operating pressure of 7 bar at 50 Hz

POTENTIAL ENERGY SAVINGS

Energy-saving potential and efficiency – LENTO by ALMiG

The speed-controlled direct drive technology of ALMiG's oil-free LENTO screw compressor series already meets today's increasing energy efficiency requirements. By precisely adjusting the air flow to the actual compressed air demand, only the energy that is actually required is used.

Switching cycles and costly idle times are consistently avoided. At the same time, the smooth start-up without current peaks enables particularly grid-friendly and energy-efficient operation.

An additional advantage is the flexibly adjustable operating pressure from 5 to 12 bar in 0.1-bar increments. This fine-tuning allows for targeted pressure reduction – and thus a direct reduction in energy costs as well as improved overall energy efficiency.

Integrated refrigeration dryer – compact and efficient

The integrated refrigeration dryer ensures low compressed air outlet temperatures and consistently high compressed air quality. An external dryer may not be required in some circumstances, thereby saving on investment and installation costs. Furthermore, there are no expenses for fresh water and water treatment – a further contribution to sustainable and resource-efficient operation.

Low-maintenance and future-proof

The oil-free LENTO series impresses with low service and maintenance costs compared to other oil-free compression systems. At the same time, you benefit from a future-proof solution that combines efficiency and sustainability.

LENTO from ALMiG – ready for tomorrow's demands.



Performance

15– 110 kW

Air flow rate in accordance with ISO 1217 (Annex C-2009)

0.72–19.60 m3/min

Operating pressure

5–12 bar

Application

100% oil-free compressed air for the industry (pharmaceuticals, medical technology, food, chemicals, electrical and textile industries)

ALMiG AirCare WARRANTY

The ALMiG AirCare package allows you to claim for the rectification of faults even after the statutory warranty period has expired. Keep a clear overview of your service costs and avoid any unpleasant surprises.

What makes ALMiG AirCare is that this extension covers not only the newly purchased ALMiG compressors, but also associated components such as

- External heat recovery modules
- Refrigeration dryers
- Adsorption dryers
- Oil-water separation systems
- Condensate drains

In addition to the supply of spare parts under warranty, AirCare also covers the following:

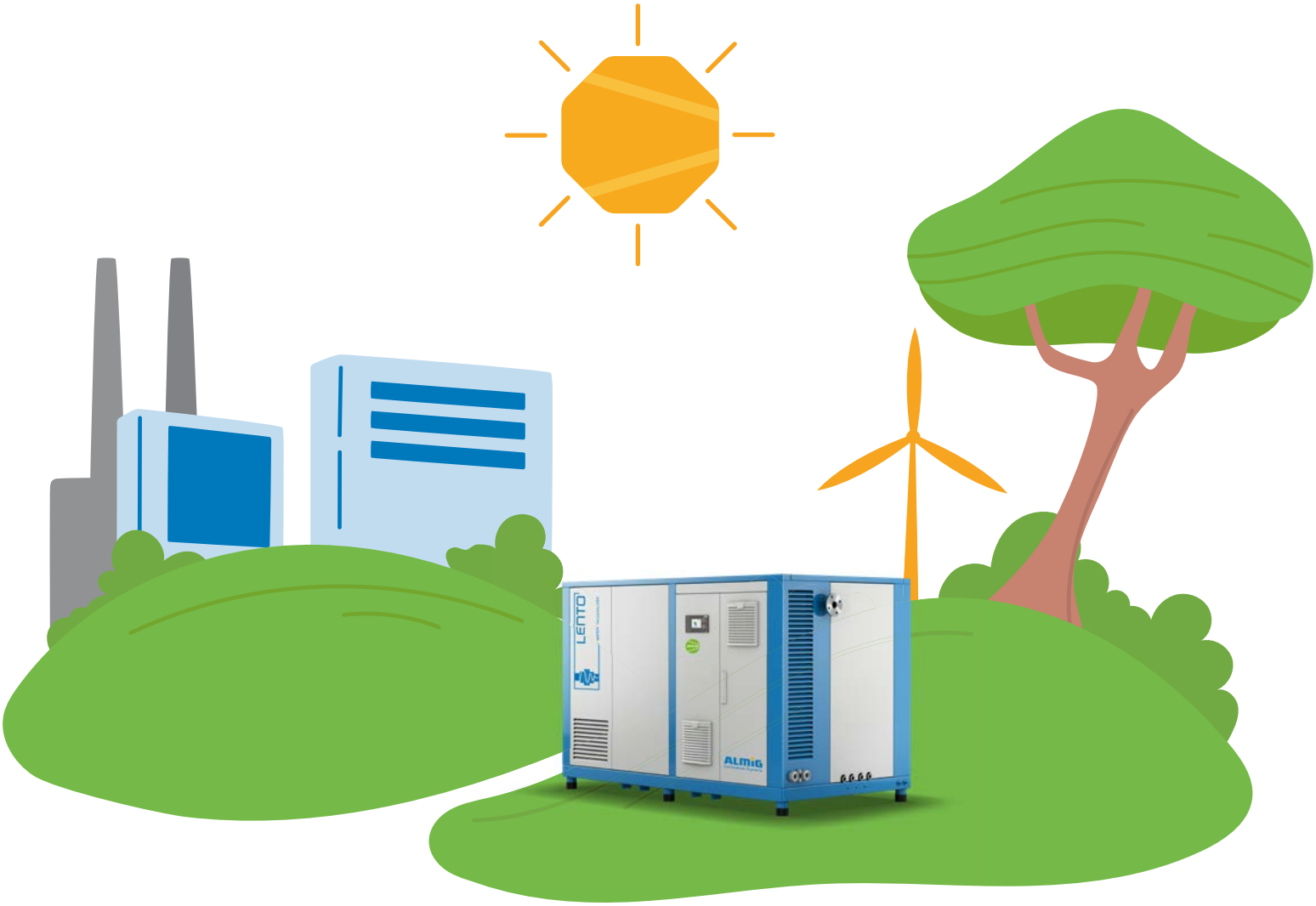
- Immediate repairs
- Necessary spare parts deliveries under warranty, free of charge
- Labour costs for diagnosis and repair of the compressor
- Travel costs (a distance of up to 100 km and a journey time of up to 2 hours (one way) are included in AirCare)

Please do not hesitate to ask your ALMiG contact for the exact terms and conditions.

Further information can be found in our AirCare warranty terms and conditions.

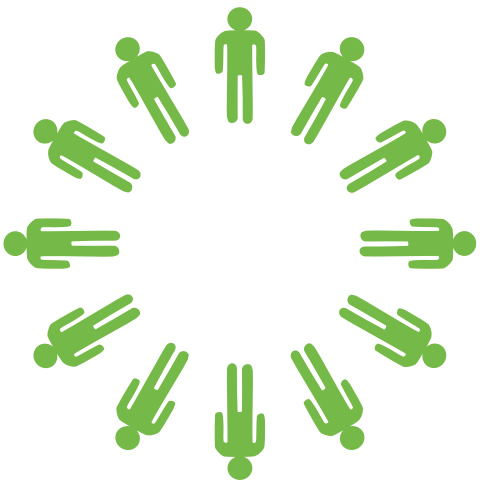


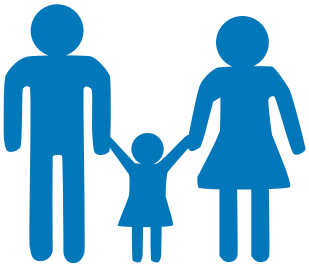
SUSTAINABILITY IN COMPRESSED AIR TECHNOLOGY



Social commitment

As a leading manufacturer of compressed air systems, we combine economic success with environmental responsibility. With innovative technologies and sustainable initiatives, the company sets new standards in the industry while consistently pursuing its environmental goals and strengthening its position as an innovation leader.

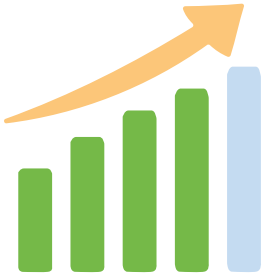




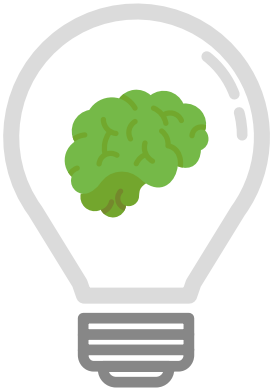
Social Responsibility

We support our employees with training and health initiatives and place great importance on work-life balance as well as a positive work environment.

Future through Innovation



Innovation drives ALMiG's sustainable future. Through continuous investment in R&D, we develop energy-efficient, environmentally friendly technologies.



Efficiency and Environmental Awareness

Our products combine top performance with energy efficiency. Through innovative compressed air solutions, frequency-controlled compressors, and intelligent control systems, we minimize the energy consumption and CO2 emissions of our customers.

ISO 14001:2015 Certification



Our certification according to DIN EN ISO 14001:2015 confirms our commitment to environmental management and sustainability. It ensures that we systematically pursue and continuously improve our environmental goals.



Water Resources Management

Water is one of our most valuable resources. At ALMiG, we place great importance on minimizing water consumption in our production processes.

Sustainability in Production



We rely on sustainable production processes and reduce the consumption of water and energy. Our manufacturing is continuously optimized to minimize waste and emissions.



People and Society in Focus

ALMiG is committed to fair working conditions, employee health, and social projects in the region to jointly promote sustainable change.

Sustainable Partnerships



ALMiG collaborates with partners to promote sustainable solutions and take ecological responsibility along the entire value chain.

Would you like to learn more about us?

Then visit our website at
www.almig.com
or simply scan this QR code.

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