

Intelligent technology at the point of delivery!

The LENTO concept offers technological advantages with no compromise:

HIGHLIGHT High quality, 100% oil-free compressed air is demanded not only in pharmacy, foodstuffs, electrical engineering and medical industries, but is very important in all applications where products of highest quality are produced.

HIGHLIGHT Only water, the most natural of all raw materials, is used in the compression process. The result is:

- clean, environmentally friendly compressed air with no oil; dirt and other dust particles drawn in are being cleaned by the water treatment system
- clean condensate (pure water) can be fed directly into the drains system
- lowest temperatures during compression through optimum heat transfer via the water and this with minimum energy consumption

HIGHLIGHT The LENTO range of speed-controlled direct drive compressors provide optimum economy by:

- exactly matching the flow from the compressor to the compressed air requirements at any time
- avoidance of switching cycles and the consequent costly no-load periods
- energy-saving start-up, with no current surge
- freely selectable operating pressure from 5 – 10 bar

The reduced pressure produced saves you money!

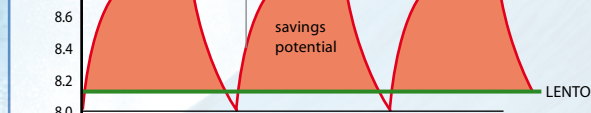
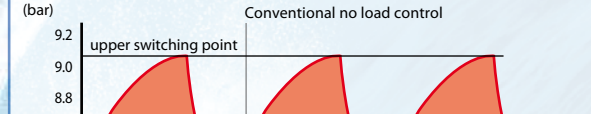
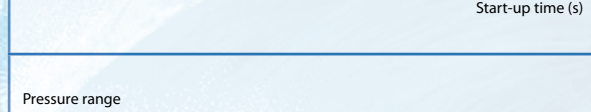
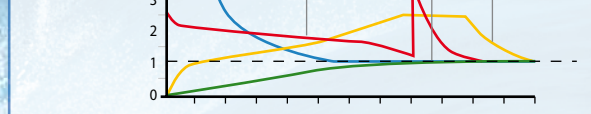
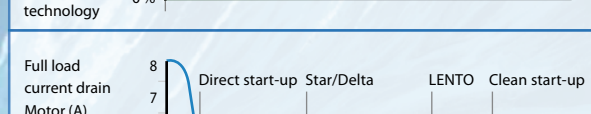
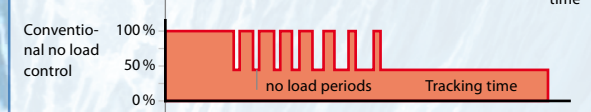
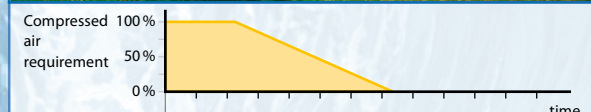
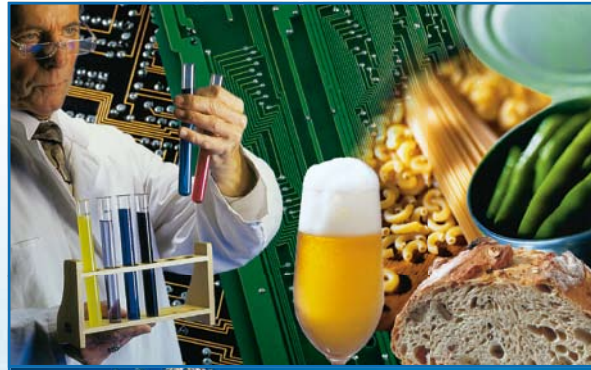
HIGHLIGHT The combination of the "Energy-saving duo" is unbeatable:

- the LENTO with "fixed speed" covers the basic load for a compressor station
- the LENTO with "variable speed" takes up any additional requirement, e.g. peaks in consumption

HIGHLIGHT The integrated dryer:

- ensures minimum compressed air output temperatures, i.e. a separate dryer may not be required
- reduces costs and simplifies installation as no additional water is required

HIGHLIGHT Minimised service and maintenance costs compared with other oil-free compression systems with fewer service items



Products, Concepts, Solutions

Built on the needs of the customer

For almost 100 years, we at ALUP have produced quality air compressors.

With our innovative system concepts we offer customised solutions for almost all applications.

Our endeavour lies not only in supplying compressors, we offer ourselves as a

competent system provider, who is able to offer solutions to all users of compressed air.

That does not only apply to the consultation and installation phase of your new compressor(s), but naturally continues in all areas of service, maintenance and visualisation.

Made by Experience!



Screw compressors

- constant speed 2.2 – 500 kW / 4 – 13 bar
- variable speed controlled and direct drive 5.5 – 260 kW / 4 – 13 bar
- oil-free, with water injection 15 – 55 kW / 4 – 13 bar



Piston compressors

- oil-free, up to 10 bar 0.75 – 12 kW
- for normal pressure up to 10 bar 1.5 – 15 kW
- for medium pressure up to 15 bar 1.5 – 15 kW
- for high pressure up to 40 bar 2.2 – 45 kW
- as a booster for an input pressure up to 15 bar and an output pressure up to 40 bar 2.2 – 30 kW



Blower

- at constant and fixed speed 0.1 – 250 kW 50 – 1000 mbar



Turbo compressors

- upon request



Complete accessories

- refrigeration dryers 0.27 – 100 m³/min
- desiccant dryers 0.08 – 145 m³/min
- activated carbon adsorbers 0.08 – 145 m³/min
- filters, all particle sizes 0.5 – 225 m³/min
- complete condensate management up to 120 m³/min



Control, regulate, monitor

- lead-lag control
- consumption-dependant control
- visualisation (we bring your compressed air to the PC)
- tele-monitoring (the hotline of your compressed air station)

Your specialist



www.alup.com

ALUP
Kompressoren



ALUP
Kompressoren

Oil-free, water-injected screw compressors

LENTO Series

Capacity:
0.24 - 4.55 m³/min



Leaflet_LENTO_GB_06/08 - errors and omissions excepted



Intelligence, Innovation, Reliability

clean compressed air, economically produced:

- 100% oil-free compressed air
- maximum flexibility through variable and fixed speed
- enormous energy-saving potential
- robust and quiet
- safe in operation by proven design
- clear, simple layout for ease of service
- environmental friendly operation



Maximum benefits for our customers:
 This premise holds true for everyone at ALUP.
 Our products benefit from the latest techniques in research and development and are manufactured according to ISO 9001.
 Customer satisfaction and quality is our highest priority.
 They fulfil all acceptance criteria according to ISO 1217 – 3 annex C.
 Numerous variations and options allow these products to be installed in nearly every compressed air application. In addition, special versions can also be offered.

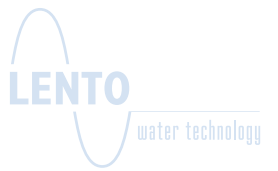
Construction, Technology, Highlights



- Air end**
 - single stage, water-injected airend
 - bronze alloy stator
 - polymerised ceramic rotors
 - lowest compression temperatures less than 60°C
- Motor**
 - highly efficient drive motor
 - IP 55 protection class F
 - compact, powerful and safe in operation designed for maximum cooling
- plus-Version with integrated dryer**
 - provides dry compressed air at the input to the compressed air network

- Total water quality**
 - Reverse Osmosis system integrated
 - Generates Water from a standard mains supply
 - Reverse Osmosis water protects the unit and avoids bacteria growth
- Direct drive**
 - Highly effective power transmission
 - optimum performance
- SCD frequency converter**
 - fully integrated system
 - conforms to EMC directives
- Air Control**
 - the compressor's intelligence
 - thinks, monitors and records

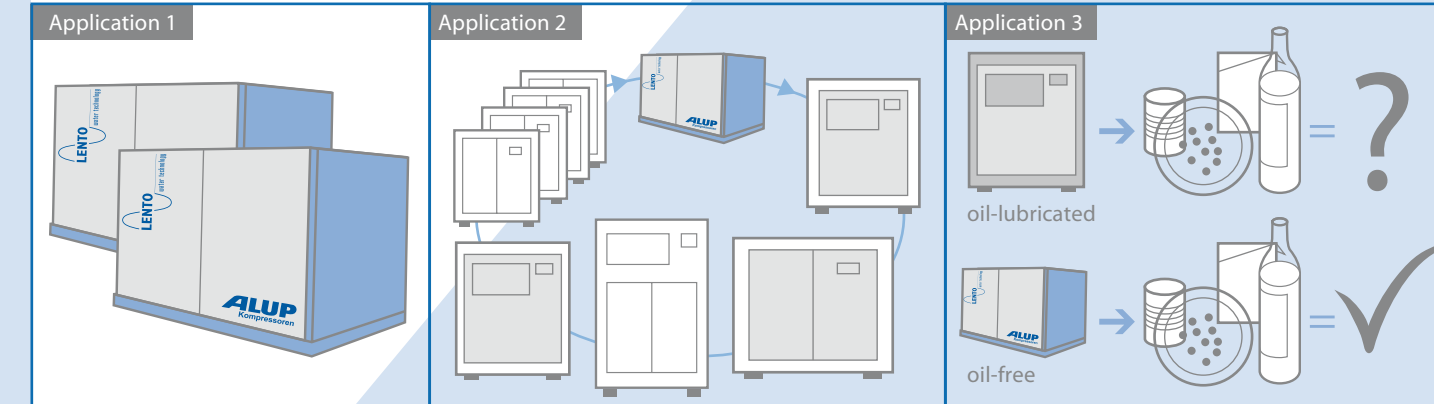
Data, Facts, Analyses



Type	Operating overpressure bar	Flow* to ISO 1217 (Appendix C-1996) min. (m³/min)	max. (m³/min)	Motor-rated output kW	Length mm	Width mm	Height mm	Weight kg	
variable speed	22	5 – 10	0.81	3.50	22	843	1105	1795	595
	37	4,5 – 10	2.52	6.48	37	2435	965	1840	1090
	55	4,5 – 10	2.51	9.65	55	2435	965	1840	1090
fixed speed	11	5 – 10	-	1.81	11	843	1105	1795	535
	15	5 – 10	-	2.52	15	843	1105	1795	553
	18	5 – 10	-	3.10	18.5	843	1105	1795	577
	22	5 – 10	-	3.53	22	843	1105	1795	625
	30	7,5 – 13	-	5.31	30	2435	965	1840	1121
	37	7,5 – 13	-	6.43	37	2435	965	1840	1193
	45	7,5 – 13	-	7.71	45	2435	965	1840	1216
	55	7,5 – 13	-	9.16	55	2435	965	1840	1273

*V referred to operating pressure of 7,5bar water-cooled (air-cooled optionally)

LENTO, the system solution for:



LENTO, the oil-free compressed air provider as a free-standing system or as a multi-unit solution for economical, oil-free compressed air production in the medium output range.
 The benefits for you: cost-effective, operationally safe with low maintenance compressed air production

LENTO, the oil-free, speed-controlled compressed air provider is best suited to take over in existing oil-free compressed air stations as the master "command" system.
 The benefits for you: The entire station becomes more economical immediately, and peaks in consumption can be buffered by "governing".

LENTO, the oil-free compressed air producer, as safe alternative to replace oil-lubricated with oil-free compressed air cost-effectively in critical sectors (such as food, chemicals and pharmaceuticals).
 The benefits for you: high security for your products (no oil present) and fewer waste disposal problems

The "LENTO concept" from ALUP: oil-free, direct drive and speed-controlled

