ALUP’s heritage

Founded in Germany in 1923, the company derives its name of the automotive products that were manufactured in the Kongen’ mechanical workshop where ALUP came into existence: Auto-LUft-Pumpen. Only two years later, the first range of piston compressors was being developed, whilst in 1980 rotary screw compressors were added to the product offer.

Over time, experience grew and innovation prospered, leading to today’s high quality product portfolio. As such, the name ALUP Kompressoren has become synonymous with innovative technology blended with a strong sense of tradition.

Today, ALUP Kompressoren is still operating out of the heart of Baden-Württemberg, where everything started in 1923.

Driven by technology
Designed by experience

Discover what happens when a passion for technology is fused with hands-on industrial experience. Designs evolve towards more practical installation and maintenance, giving you the freedom to focus on your job. Product ranges include the exact machine you need, with the right options for your performance needs. Return on investment is ensured, while your carbon footprint shrinks. And, because we stay close to our customers, we’re one step ahead when your needs change.
The power of the Largo & Allegro E range

The Largo-Allegro 11-22 E range provides high quality compressed air for a wide range of industrial applications. As a result of continuous investment in product development, the range ensures industry leading performances in air delivery and energy efficiency, guaranteeing our customers unrivalled energy savings for their operations.

A wide product offer
- 4 power sizes: from 11 up to 22kW.
- 4 pressure variants for Largo fixed speed (7.5, 8.5, 10 and 13 bar).
- 2 pressure variants for Allegro variable speed (10 and 13 bar)
- 3 configurations:
  - Floor Mounted
  - Floor Mounted + Dryer (Plus)
  - Tank Mounted (500L) + Dryer (Plus)

High serviceability
- All consumables are located behind one panel.
- Hinged removable front and rear doors to facilitate service.
- Large doors for easy access.
- Full access on both sides: front and back.
- Cleaning and servicing is a one person job.

Industry leading performance
- A new and very powerful motor and air end combination provides top performances in Free Air Delivery and Specific Energy Consumption. This results in:
  - More air per kW.
  - Less energy per m³/h

The options you need
- Graphic and integrated central controller.
- Energy recovery.
- ICONS (monitoring system)
- Integrated line filters
- ...and much more to customize your machine!
The right fit for each customer

Check out these innovative features of the Largo & Allegro 11-22 E range and see how they provide you with a complete offer: high efficiency, easy maintenance and a low noise level.

High quality drive train (gear transmission)

- Gear drive technology (1) for industry leading energy efficiency and reliability.
- No long-term losses thanks to the combination of screw compressor technology and gear drive.
- All gear sets are sized to reach the air end’s optimal performance range.
- In-house designed air ends (2) with high performance (Air Delivery and Energy Consumption).
- Standard IP55 Class F IE3 motor (3) on Largo units.

Optimal cooling and ventilation

- High efficiency radial fan (4) with low noise and low power consumption.
- Optimal cooling flow ensures low working temperatures.
- Oversized oil and air coolers (5) to keep low running temperatures even on hard conditions.

High quality air delivery

- Internal cyclonic water separator with automatic drain (6) removes up to 90% of the moisture.
- An oversized dryer (7) isolated from the hot area of the compressor ensures maximum moisture removal.
- Optionally two line filters can be integrated in the package (G+C filters) ensuring clean air complying with ISO 8573-1: Class 1:4:2.
Highly efficient air intake filtration and oil separation

- Fresh air is taken from the cold side (8) of the compressor improving compressing efficiency.
- Two micron incapsulated intake filters guarantee low pressure drop and only absolutely clean air inside the compressor air end.
- An oversized oil separation system (9) keeps pressure drop < 250 mBar, guaranteeing an energy efficient oil separation. This system also ensures low residual oil content < 2ppm, significantly reducing oil contamination in the down stream pneumatic equipment.

Quiet operation

Thanks to the improved noise insulation, the compressor works very quietly and can be placed near the workplace.

Time proven electrical package

- Designed according to IP 54, the electrical cubicle is protected against dust and water splashes, ensuring complete peace mind.
- Main components like the motor, electrical components and converter (10) are sourced from reputed suppliers with world wide support.
How to optimize your energy consumption

Energy costs represent about 70% of the total operating cost of your compressor over a 5-year period. That is why reducing the operating cost of a compressed air solution is a major focus.

Variable speed technology

For the right application, variable speed technology, can cut the energy bill of your compressor by up to 35%.

- The variable frequency drive compressor matches air supply with demand therefore reducing energy consumption when the demand is lower. If the demand is stable then the Air Control controller guarantees a fixed set pressure.
- No unload cycles above 20% load.
- No peak current due to soft start.
- Improved efficiency thanks to the new direct driven transmission.
Meet the ALUP E series

Reducing the amount of energy required to produce products and services is the future. Lower energy consumption not only brings financial savings but is also seen as a sustainable solution for the problem of greenhouse gas emissions.

The ALUP E series incorporates the latest technological developments in compressed air and ensures industry leading performances in Free Air Delivery and Specific Energy Requirements.

Enjoy the performance and energy efficiency of the ALUP 11-22 E!
Improve your energy recovery

When air is compressed, heat is formed. The excess heat can be captured with an energy recovery option and channeled to other applications allowing you to save energy and cut costs.

Water cooling recovery

In the energy recovery units (optional) the oil circuit is pre-cooled with an oil/water heat exchanger. Water then becomes the fluid transport media to recover the oil temperature. The hot water resulting from this process can be used to heat radiators or water boilers, pre-heat supply water or hot tap water, and other industrial applications.

The energy recovery option is a simple mechanical system that requires no maintenance or electricity consumption, but offers you significant reductions in your energy costs.
Options to optimize your operations

A wide range of options enables you to get the most out of your Largo & Allegro 11-22 E compressor.

Air treatment

- **Built in dryer** to ensure dry air for the most demanding applications.
- **Integrated Line Filters (G+C filter)** to ensure a high level of air purity, in line with ISO 8573-1 Class 1:4:2.

Specific applications or configurations

- **Energy recovery pack** to recover up to 70% of the electrical energy consumption as warm water for showers, boilers etc.
- **Canopy heater** for installations exposed to low ambient temperatures.
- **Rain protection** for outdoor installations
- **Foodgrade oil** for food & beverage applications.
- **8000h oil** to ensure longer service intervals.

Control & monitoring

- **Air Control 5.1 Graphic Control** (standard on Allegro - optional on Largo)
- **EControl6i** integrated multiple compressor control for 4/6 compressors (with Air Control 5.1 only).
- **ICONS** – remote monitoring system for additional convenience and compressor availability.

For further information on how our options can optimize your operations, please contact your local representative.
# Technical specifications

**Fixed Speed**

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. working pressure</th>
<th>Reference working pressure</th>
<th>Free Air Delivery @ reference conditions*</th>
<th>Motor power</th>
<th>Noise level**</th>
<th>Weight</th>
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<tr>
<td></td>
<td>bar</td>
<td>bar</td>
<td>m³/h</td>
<td>l/s</td>
<td>cfm</td>
<td>kW</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>l/s</td>
<td></td>
<td></td>
<td>hp</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>dB(A)</td>
<td></td>
<td></td>
<td>kg</td>
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<td>Largo 11 E</td>
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<td>139</td>
<td>38,6</td>
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<td>9,5</td>
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<tr>
<td></td>
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* Unit performance measured according to ISO 1217, Annex C, latest edition.

** Noise level measured according to ISO 2151 2004.
Technical specifications

Variable Speed

<table>
<thead>
<tr>
<th>Model</th>
<th>Min. FAD*</th>
<th>Max. FAD*</th>
<th>Motor power</th>
<th>Noise level</th>
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<tr>
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<td>m³/h</td>
<td>m³/h</td>
<td>kw</td>
<td>dB(A)</td>
<td>kg</td>
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<td></td>
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<td>l/s</td>
<td></td>
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</tr>
<tr>
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<td>7 bar</td>
<td>5.5 bar</td>
<td>7 bar</td>
<td>8 bar</td>
<td>9.5 bar</td>
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<td>135</td>
<td>120</td>
<td>107</td>
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<tr>
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<tr>
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<tr>
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</table>

* Unit performance measured according to ISO 1217, Annex C, latest edition.
** Noise level measured according to ISO 2151 2004.

Dimensions Fixed Speed & Variable Speed

<table>
<thead>
<tr>
<th>Largo &amp; Allegro</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
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<tr>
<td>Floor Mounted units</td>
<td>1432</td>
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<td>1278</td>
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<tr>
<td>Floor Mounted units with dryer (plus)</td>
<td>1926</td>
<td>840</td>
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</tr>
<tr>
<td>Tank Mounted units (500L) with dryer (plus)</td>
<td>1926</td>
<td>840</td>
<td>1900</td>
</tr>
</tbody>
</table>
Care. Trust. Efficiency.

Care.
Care is what service is all about: professional service by knowledgeable people, using high-quality original parts.

Trust.
Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

Efficiency.
Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.