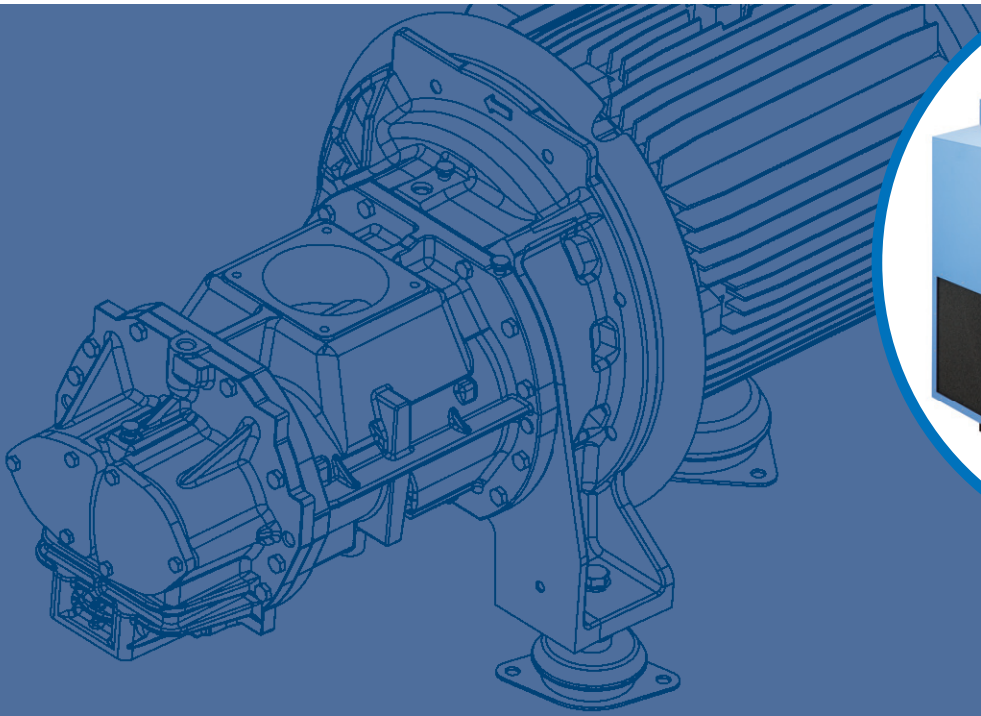


Largo & Allegro[®]

Rotary Screw Compressors



LARGO & ALLEGRO 23-36

ALUP
Kompressoren



ALUP's heritage

Founded in Germany in 1923, the company derives its name of the automotive products that were manufactured in the Köngen' 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 its home town Köngen, 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 range that meets all your requirements

With the Largo-Allegro range you obtain an efficient, reliable and complete solution which fits a wide range of compressed air requirements.

A wide offer for you

- Available power sizes: from 22 up to 37 kW (22 & 26 kW power sizes added).
- 4 pressure variants for fixed speed.
- 4 Allegro variants, 22-26-30-36 kW direct driven for improved efficiency.
- One pressure variant (5,5-12,5 bar) for Allegro 23-26-30-36.

High efficiency transmissions

- Reduced energy consumption compared to belt driven technology.
- Low noise levels: the Largo & Allegro can be installed close to the workplace.
- Longer service intervals compared to belt technology.

Easy accessibility and installation

- Easy to service thanks to the large hinged doors and removable panels.
- Easy to install thanks to a high variety of configurations and scope of supply.

The options you need

- Graphic and integrated central controller.
- Energy recovery.
- Compressed air filter to improve the air quality.
- WSD to protect your dryer from moisture.
- ...and much more to customize your machine!

www.alup.com

The right fit for each customer

Check out these innovative features of the Largo & Allegro 23-36 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 and direct transmission)

- Gearbox technology for great energy efficiency and reliability installed on all the Largo units.
- No long-term loss thanks to the combination of screw rotors and gearbox technology.
- Direct driven transmission (1) for outstanding energy efficiency and reliability installed on the Allegro 23-26-30-36.
- In-house designed element with high performance (specific energy requirements and FAD) C80 gear and DD for 23-26-30-36 (2).
- Standard IP 55 class F IE3 motor for Largo (3).
- IP 54 designed for converter duty motors for Allegro (4).
- Primary suppliers for main outsourced components like motors and converters (5), with world wide support.

Highly efficient air intake filtration and oil separation

- Fresh air taken from the cold side of the compressor to improve efficiency.
- Two micron encapsulated intake filters guarantee only clean air enters the compressor (6).
- Spin on oil separator (7) for 22 and 26 kW and internal oil separator with oversized oil vessel (8) for 30 and 37 kW for a pressure drop < 250 mbar.



Optimal ventilation and oversized cooler

- Improved cooling flow results in a lower working temperature.
- A separated air flow offers you an efficient motor and inverter cooling together with a long life time of oil, components and compressor (9).
- Optimal ventilation flow is assured with low energy consumption.
- Oversized oil and air cooler for better cooling and lower operating temperature (10).



Integrated inverter

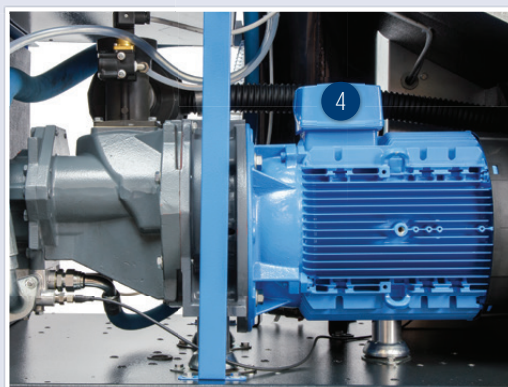
- Easy accessible integrated inverter drive (5).
- Optimal FAD range control.
- New cubicle cooling system to improve electrical device reliability.

Quiet operation

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

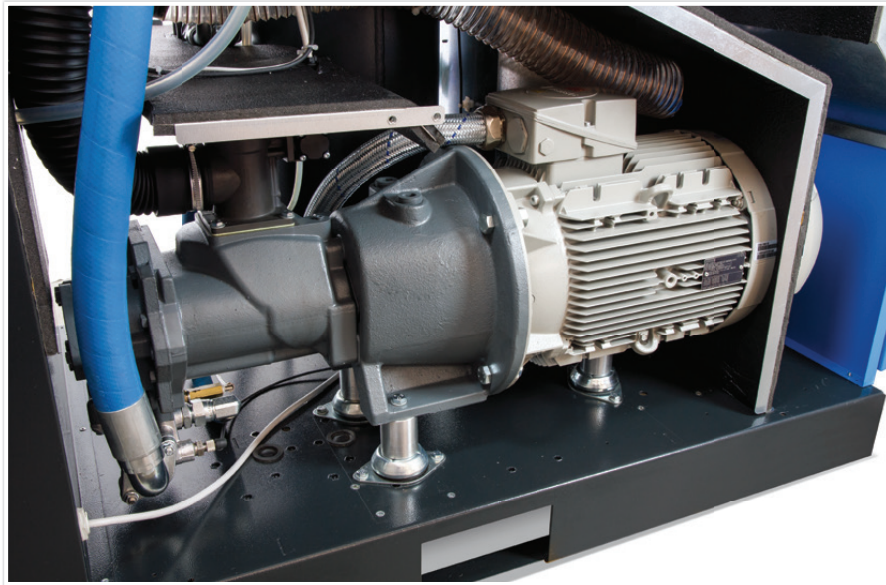
Air quality

- Internal water separator (11) with automatic drain removes up to 90% of compressed air moisture (standard with dryers).
- Oversized dryer (12) installed in the cold part of the unit to ensure the maximum of moisture removal.



How to optimize your energy consumption

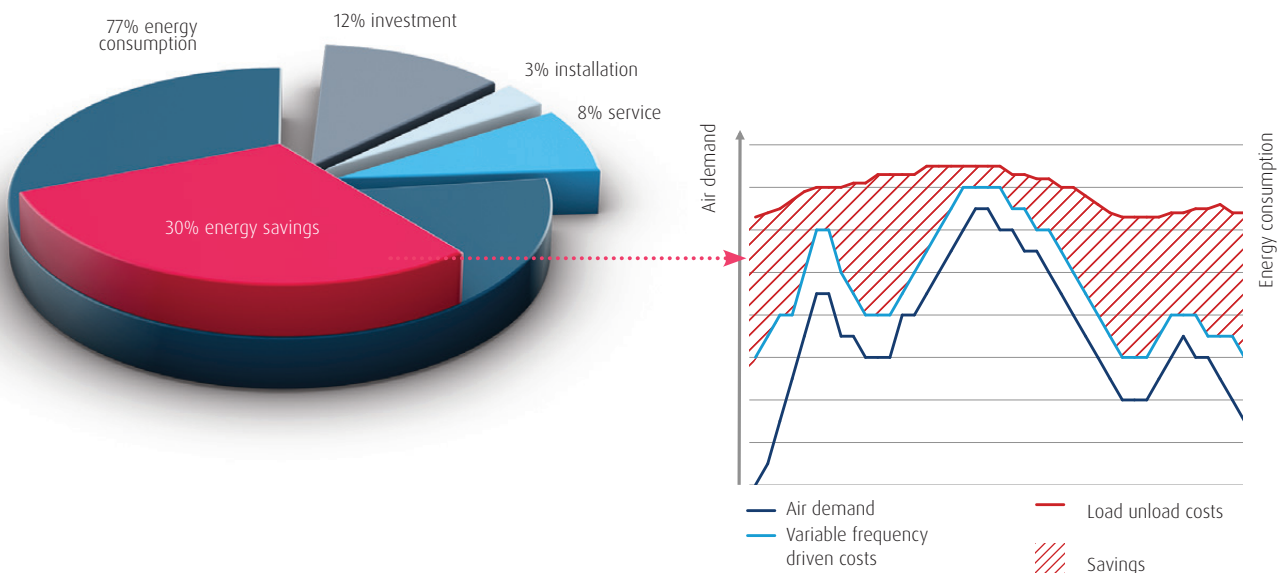
Energy costs represent about **70%** of the total operating cost of your compressor over a 5-year period. That is why reducing the operating cost of a compressed air solution is a major focus.



Variable speed technology

For the right application, variable speed technology, can cut the energy bill of your compressor by up to **30%**.

- 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



Always in control with Air Control 5.0 and 5.1



Air Control 5.0 (standard on Largo)

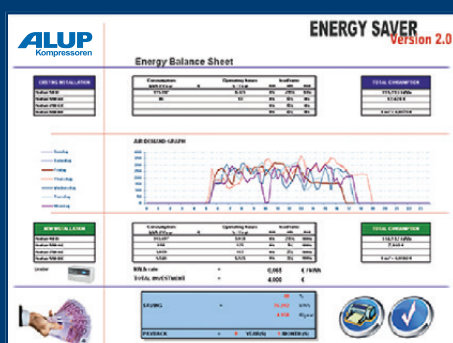
- Icon based display action
- Led status visualization.
- Digital I/O.
- Remote start stop, load-unload, emergency stop.
- Automatic restart after a power failure.
- Service indicator and fault management provide comprehensive messages to ease service diagnostics.
- Visualization through web browser using a simple Ethernet connection.



Air Control 5.1 (standard on Allegro optional on Largo)

The Air Control 5.1 takes your control to the next level, offering additional functionalities:

- User-friendly graphic screens, data logging and storage on a memory card.
- Stop/start timers do not rely on the operator's action to save energy, but program the Air Control 5.1 controller to operate as your factory operates.
- Dual pressure band time scheduling for operation with different pressure bands, leading to energy savings.



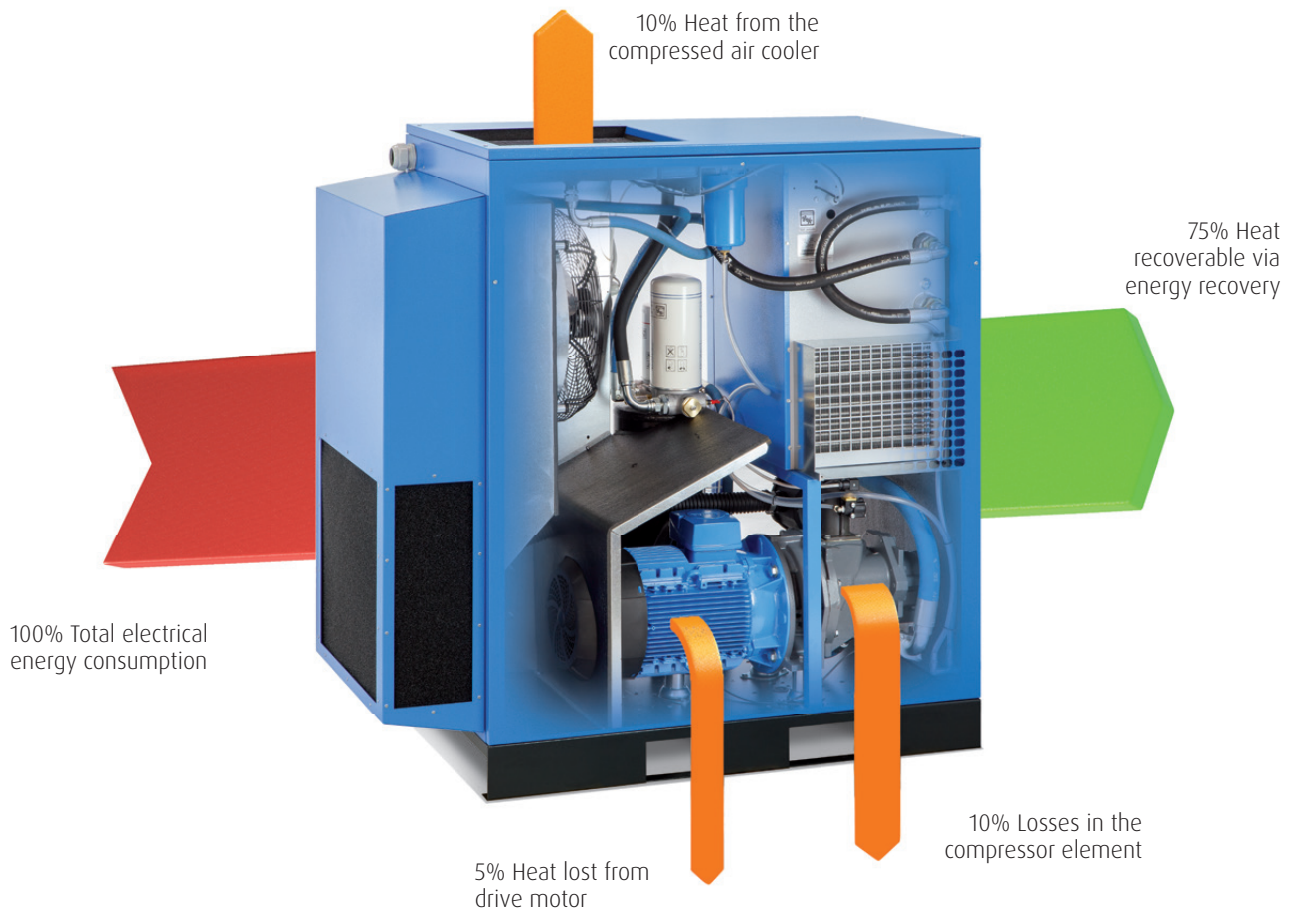
Energy audit

Knowing what compressor is right for your application is critical to minimizing the energy consumption. With our Energy Audit we can simulate your compressed air needs and then consult you on the best solution for your needs.

For more information, please contact your local ALUP representative.

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.

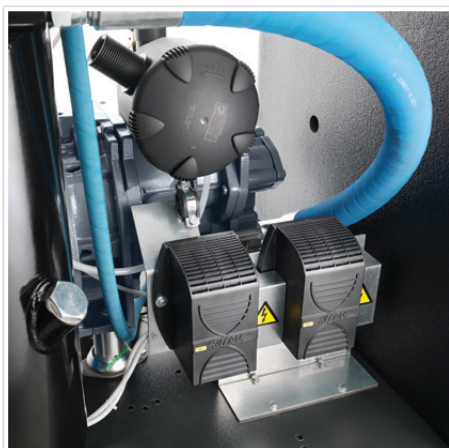
The energy recovery option integrates a heat exchanger on the oil circuit, which heats up the continuously pressurized water flow. The system is regulated automatically, and in case of limited water cooling capacity, the standard cooling system of the compressor will operate and backup the energy recovery device.

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 2-36 compressor.



Air quality

- **Internal water separator with automatic drain** reduces up to 90% of the compressed air moisture. Standard on 23-26-30-36 plus versions.
- **Line filter** for oil and dust removal down to 0.1 ppm for plus versions.
- **Heavy duty air intake filtration** prevents dust entering the pneumatic circuit in very dusty environments (standard on Largo & Allegro 30 and 36).
- **Canopy heater** for low temperature installation.
- **Electronic zero loss drain** for water separator to easily drain the condensate without any compressed air loss.
- **Food grade oil** for food & beverage applications

Efficiency

- **Energy recovery pack** to recover up to 70% of the electrical energy consumption as warm water for showers, boilers etc.
- **8000h oil**

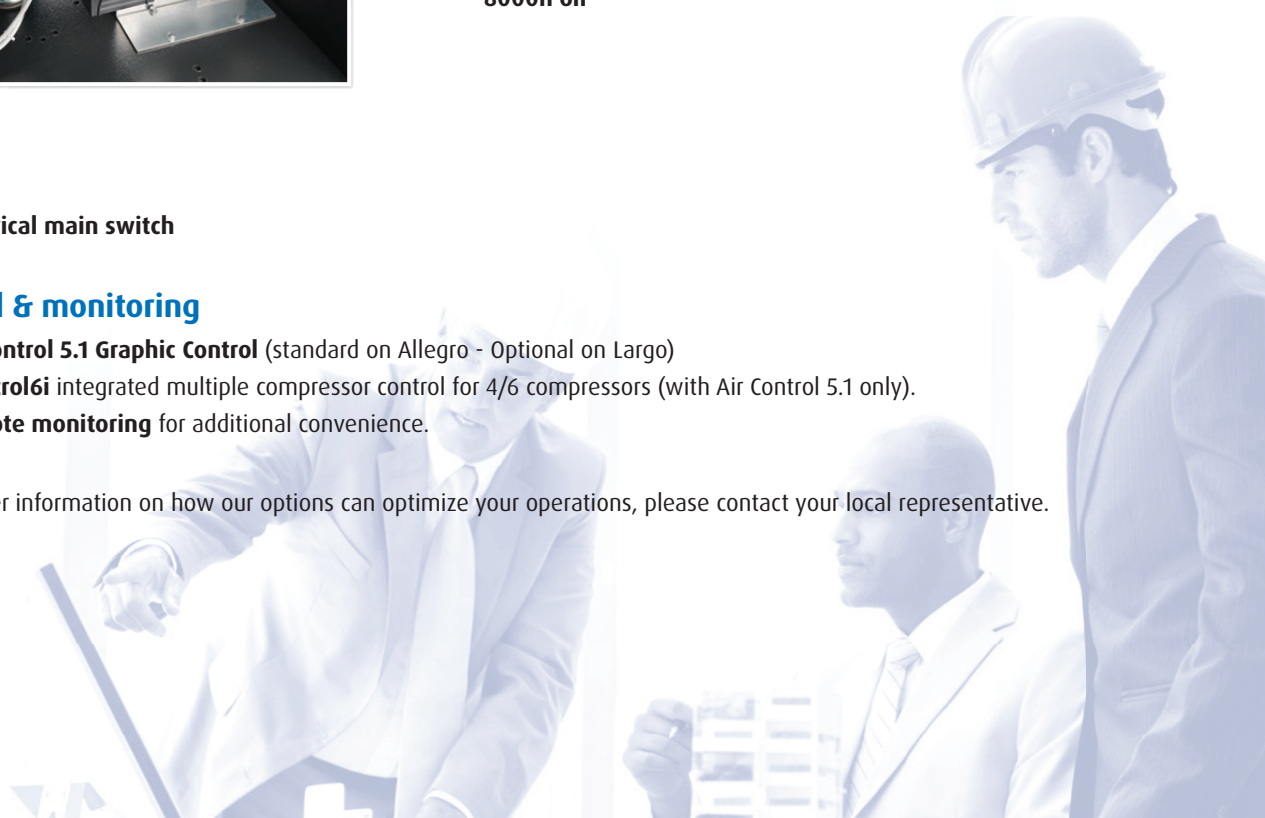
Safety

- **Electrical main switch**

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).
- **Remote monitoring** for additional convenience.

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



Technical specifications

Fixed Speed

Model	Max. working pressure		Free Air Delivery @ reference conditions**			Motor power		Noise level***	Cooling air volume	Weight	
	bar	psi	m³/h	l/s	cfm	kW	hp	dB(A)	m³/h	FM	FM Plus
Largo 23*	7,5	7,5	237	66	140	22	30	66	2300	465	540
	8,5	8	223	62	131						
	10	10	203	56	119						
	13	13	175	49	103						
Largo 26	7,5	7,5	277	77	163	26	35	67	4800	480	555
	8,5	8,5	263	73	155						
	10	10	241	67	142						
	13	13	209	58	123						
Largo 30	7,5	7,5	335	93	197	30	40	68	4800	580	701
	8,5	8,5	306	85	180						
	10	10	281	78	166						
	13	13	245	68	144						
Largo 36	7,5	7,5	374	104	220	37	50	69	4800	643	764
	8,5	8,5	346	96	204						
	10	10	310	86	183						
	13	13	281	78	166						

* Available only for 400 V 50Hz - IEC - CE

** Unit performance measured according to ISO 1217, Annex C, latest edition.

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



Technical specifications

Variable Speed

	Min. working pressure	Max. working pressure	Free Air Delivery @ reference conditions**										Motor power		Noise level ***	Cooling air volume	Weight	
			Min. FAD **		Max. FAD **												FM	FM Plus
			m³/h	l/s	m³/h	cfm	m³/h	cfm	m³/h	cfm	m³/h	cfm						
Model	bar	bar	7 bar		5 bar		7 bar		9.5 bar		12.5 bar		kW	hp	dB(A)	m³/h	kg	
Allegro 23*	5	13	47	13	255	151	248	146	215	126	180	106	22	30	66	2300	456	525
Allegro 26	5	13	47	13	290	168	284	167	252	148	209	123	26	35	67	4800	466	535
Allegro 30	5	13	61	17	348	202	334	197	295	174	248	146	30	40	68	4800	515	630
Allegro 36	5	13	65	18	380	221	374	220	331	195	270	159	37	50	69	4800	537	652

* Available only for 400 V 50Hz - IEC - CE

** Unit performance measured according to ISO 1217, Annex C, latest edition.

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

Dimensions Fixed Speed & Variable Speed

Largo & Allegro	Length	Width	Height
	mm	mm	mm
23-26-30-36 standard	1555	830	1555
23-26 with dryer (plus)	1555	830	1555
30-36 with dryer (plus)	2030	830	1555





DRIVEN BY TECHNOLOGY DESIGNED BY EXPERIENCE



CONTACT YOUR LOCAL
ALUP KOMPRESSOREN
REPRESENTATIVE



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.