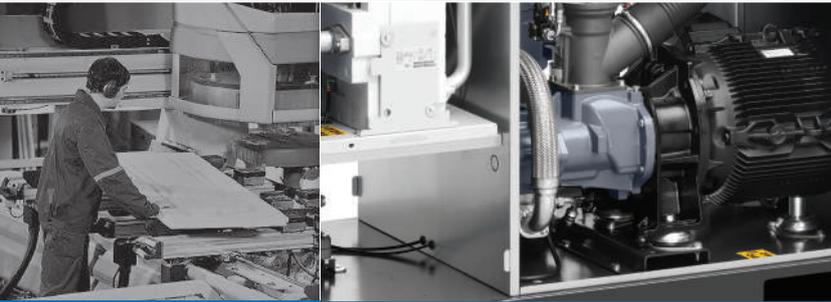


Largo & Allegro Screw Compressors



Largo & Allegro 45-110



At Ash Air, it isn't just about the products. We're passionate about performance and service, with more than 50 qualified engineers working throughout the country providing unsurpassed compressed air solutions.

Broad product portfolio of robust compressors & tools

Decades of experience & innovation. Since 1979

24/7 service support with back up and hire equipment

"We are committed to being the easiest company to deal with in the air compressor and vacuum industry."

Energy Saving Solution



7,900 serviceable units



30.6km AIRnet piping installed



3580 kW combined power of VSD compressors installed



2.1 MWh potential yearly energy savings identified through leak detection



3.5 MWh saved with AIRnet and VSD each year



2.2 Mton CO₂ emissions eliminated each year



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.

**INNOVATION
HANDS-ON
EXPERIENCE
PEACE OF MIND
TOTAL COST
OF OWNERSHIP
PARTNERSHIP**

The power of the Largo & Allegro range

Largo & Allegro 45-110 screw compressors provide high-quality compressed air for a wide range of industrial applications. The result of continuous investment in product development, Largo & Allegro 31-110 compressors are built around three innovative features which make them stand out.

Superior efficiency

- In-house design compression elements.
- Direct drive transmission.
- High-efficiency radial cooling fan.
- IE3 / NEMA Premium Efficiency motor.
- Integrated air dryer



Intelligent control

- Aircontrol 5.1 full-colour 3.5 inch HD screen.
- Intelligent unload cycle control.
- Precise pressure control.
- Warning indications.
- Graphical indication service plan.
- Additional communication possibilities.



Ultimate reliability and serviceability

- Proven designs
- Reputed brands
- Modular design.
- Extensive service support.
- Designed for harsh conditions and ambient temperatures up to 46°C.

10 reasons to choose Alup

Check out these innovative features and see how they provide you with high efficiency, ease of maintenance, low noise levels and outstanding cooling.



1. Element and drive train

- Gearbox technology ensuring outstanding efficiency and continued reliability.
- Innovative design resulting in a smaller footprint.

2. High efficiency motors

- IE3 / NEMA Premium efficiency motor (standard on fixed speed machines, optional on variable speed ones).
- IP55, insulation Class.

4. Standard enclosed intake filter

- Low noise levels thanks to design and position of filter.
- Improved FAD due to air intake positioning.
- High quality filtration to maximize oil quality and protect your compression element.



3. Radial fan

- Low power consumption & reduced noise levels.
- Optimal cooling flow.
- Increased lifetime of oil, consumables and compressor.



5. Separate coolers

- Separate oil and air cooler for high-quality cooling and long lifetime of the coolers.
- Gliding rails for easy and safe removal.
- Easy access for cleaning.

6. Solid inlet baffle

- Small installation footprint: the unit can be placed against a wall.
- Fitted with insulation foam to reduce noise.
- Optimized air flow for improved cooling.
- Added protection for the cooling fan.



7. In-house designed oil separator vessel

- Integrated minimum pressure valve (MPV) eliminates risk of leakage.
- Long lifetime thanks to cast iron parts.
- Designed for optimal oil separation.

8. In-house designed inverter

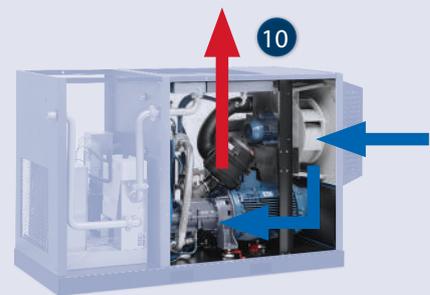
- Integrated Imperium inverter for Allegro 55-110
- Robust industrial design with IP5X protection rating
- Compact, smart and user-friendly, controlled by Air Control 5.1
- Installed in a separate cubicle to ensure optimal cooling and easy maintenance

9. Intelligent controller

- The full-color graphic control of the Air Control 5.1 offers a user-friendly interface to access all the compressor parameters, service notifications and events.
- The various control modes and intelligent algorithms allow the compressor to automatically adapt to demand changes.

10. Improved motor cooling

- Separate cooling flow.
- Suitable for harsh conditions and temperatures up to 46°C.



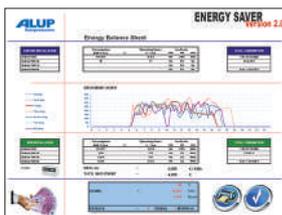
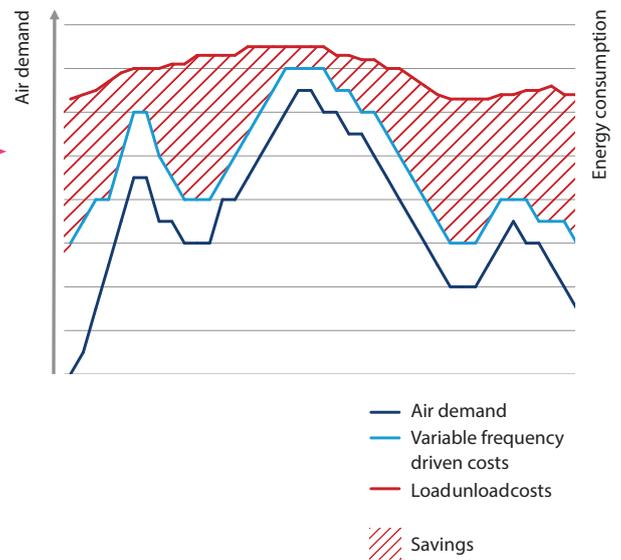
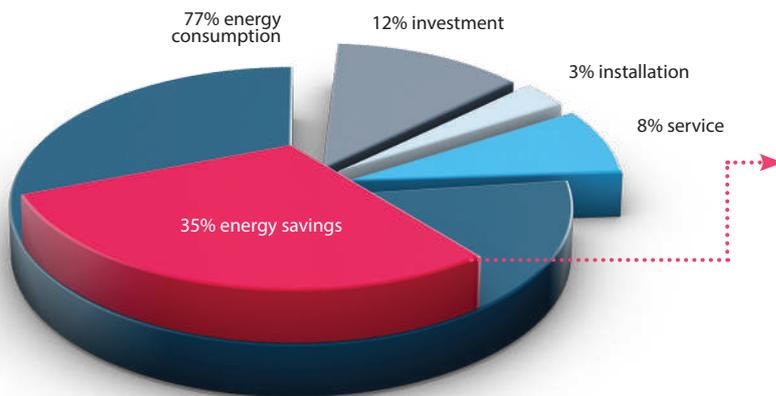
Optimize your energy consumption

Did you know that energy costs represent about 70% of the total operating cost of your compressor over a 5-year period? That's why reducing the energy consumption of our compressed air installation should be a major focus.

Variable speed technology

For the right application, variable speed technology, such as on the Allegro variable frequency drive compressor, can cut the energy bill of your compressor by up to 35%. The Allegro reduces energy consumption in the following ways:

- 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 Airlogic² controller guarantees a fixed set pressure.
- No unload cycles above 20% load.
- No peak current due to soft start.

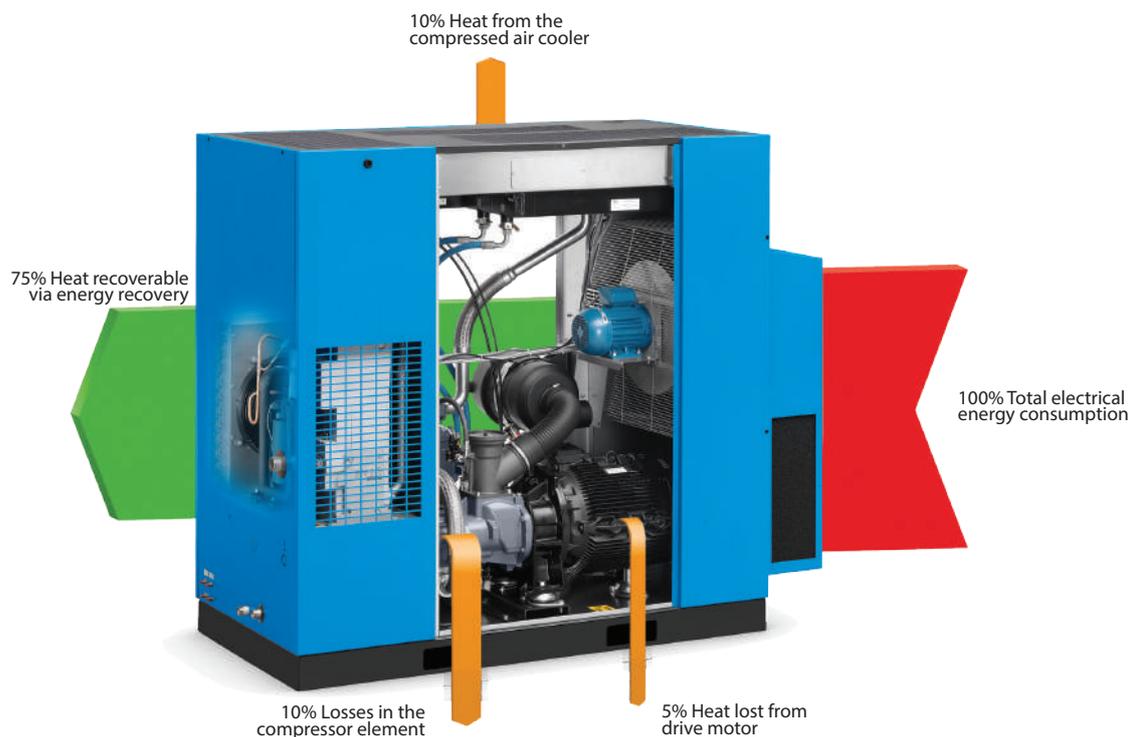


Energy audit

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.

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. 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.



Intelligent graphic controller

The multiple control and monitoring features of the controller dramatically increase the compressor's efficiency and reliability. Efficiency is maximized by controlling the main drive motor and regulating the system pressure within a pre-defined and narrow pressure band.

Control and monitoring features:

- Warning indications.
- Graphical indication service plan.
- Integrated sequence for up to 6 compressors limiting the energy consumption and equalizing running hours across your whole system.
- Online visualization of running conditions.



Central controller technology

For installations with multiple compressors, a costly cascade system with a wide pressure band used to be the only way to operate. Additionally, the running hours of the compressors were not synchronized making strategic servicing difficult. Install the EControl6 or the integrated compressor control (with a license) and get simple, central control to reduce system pressure and energy consumption in installations of up to 4 or 6 compressors.



Control features

- Single pressure measurement point.
- Minimized pressure band.
- Stable system pressure.
- Equalization of running hours.
- Multiple IVR speed control.
- Clear and visual graphical display.
- Online monitoring and controlling possible.

Enhanced air quality

Many people do not realize that the operating environment can have a major impact on the air quality at the compressor outlet. Even in a dedicated compressor house the inlet air can contain particulate or moisture which can have a negative impact on the production.

Largo & Allegro 45-75 compressors are available with an integrated dryer option, which offers significant advantages compared to a stand-alone dryer:

- Condensation removal at source minimizing pipework corrosion.
- Reduced footprint, up to 1/3rd of a stand-alone dryer.
- Intelligent dryer control, controlled by the Air Control 5.1.
- Higher operating temperatures compared to stand-alone.
- Single service visit, reducing maintenance costs.
- No installation cost.



Options to optimize your operations



Every installation is different, therefore we offer you a wide range of options to enable you to personalize your Largo & Allegro 45-110 compressor to your needs.

Air quality

- Internal water separator - reduces up to 90% of the condensate in the compressed air. (standard on Largo 45)
- Automatic drain - ensures no air loss during condensate removal (only in combination with internal water separator).
- Tropical thermostatic valve - for use in humid and hot conditions.
- High-efficiency air intake pre-filtration panel - avoids dust entering the compression element, protecting internal components and extending the compressor lifetime.

Energy saving

- Energy recovery pack - recovers up to 75% of the energy formed during the compressor process heat, which can be used to heat up water for boilers, showers etc.

Safety

- Wrong rotation direction control - protects the compressor from possible damage when the power supplied by the energy provider is unreliable.
- Water shut-off valve outside the canopy - for water-cooled machines.
- The oil pre-heater - guarantees a certain oil temperature in the oil vessel to avoid condensation.

Control and monitoring

- ECO 4/6i - integrated multiple compressor control for 4/6 compressors.
- Remote monitoring - for additional convenience.

Available for Largo 45:

Extended lifetime oil & filters

- "Plus" option including 4000 hours oil combined with an air and oil filter with the same lifetime.
- "Extended" option including 8000 hours oil with a long lifetime oil filter. This will guarantee optimal performance at all times.

Technical data

Fixed speed version	Max. working pressure	Reference working pressure	Free Air Delivery @ reference conditions*		Motor power		Noise level**	Cooling air volume	Weight		Compressed air output diameter
			m ³ /min	cfm	kW	hp			std	plus	
Model	bar	bar	m ³ /min	cfm	kW	hp	dB(A)	m ³ /h	kg	kg	"
LARGO 45	7.5	7	8.2	290	45	60	68	6660	692	900	1"1/2
	8.5	8	7.8	273	45	60	68	6660			
	10	9.5	7.1	252	45	60	68	6660			
	13	12.5	6.3	221	45	60	68	6660			
LARGO 55	7.5	7	10.0	354	55	75	70	9000	1130	1403	2"
	8.5	8	9.5	337	55	75	70	9000			
	10	9.5	9.0	318	55	75	69	9000			
	13	12.5	7.5	263	55	75	69	9000			
LARGO 75	7.5	7	12.9	456	75	100	71	12600	1317	1590	2"
	8.5	8	12.6	445	75	100	71	12600			
	10	9.5	11.3	399	75	100	70	12600			
	13	12.5	9.7	343	75	100	70	12600			
LARGO 76	7.5	7	14.7	519	75	100	69	12600	1570	NA	2"
	8.5	8	13.7	483	75	100	69	12600			
	10	9.5	12.4	437	75	100	68	12600			
	13	12.5	10.5	370	75	100	68	12600			
LARGO 90	7.5	7	16.4	581	90	125	70	14760	1600	NA	2"
	8.5	8	16.2	572	90	125	70	14760			
	10	9.5	14.5	511	90	125	69	14760			
	13	12.5	12.0	425	90	125	69	14760			
LARGO 110	7.5	7	20.6	729	110	150	74	14760	1800	NA	2"
	8.5	8	19.7	695	110	150	74	14760			
	10	9.5	17.9	632	110	150	73	14760			
	13	12.5	15.1	534	110	150	73	14760			

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

** Noise level measured according to ISO 2151 with optional baffle.

All technical data for air-cooled machines without integrated dryer.

For technical data of water-cooled machines or machines with integrated dryer, please contact your local salesforce.



Dimensions Largo

Model	Length std	Length plus	Width	Height
	mm	mm	mm	mm
LARGO 45	1555	2055	890	1790
LARGO 55	1923	2773	1060	1630
LARGO 75				
LARGO 76	2125	NA	1060	1630
LARGO 90				
LARGO 110				

Technical data

Inverter driven version	Working pressure	Min. free air delivery (7 bar)*		Max. free air delivery									
				7		9.5		10		12.5		13	
				m ³ /min	cfm	m ³ /min	cfm	m ³ /min	cfm	m ³ /min	cfm	m ³ /min	cfm
Model	bar												
ALLEGRO 45	4-10	2.3	82	8.1	286	7.1	252	6.9	245	n.a.	n.a.	n.a.	n.a.
	4-13	2.0	71	7.0	248	7.1	252	7.1	252	6.2	217	6.0	211
ALLEGRO 55	4-10	2.8	100	9.9	350	8.9	316	8.7	306	n.a.	n.a.	n.a.	n.a.
	4-13	2.5	88	8.7	307	8.9	316	8.9	315	7.5	263	7.2	255
ALLEGRO 75	4-10	3.7	130	12.9	456	11.1	390	10.7	379	n.a.	n.a.	n.a.	n.a.
	4-13	3.2	112	11.1	393	11.1	390	11.0	390	9.7	343	9.4	333
ALLEGRO 76	4-10	4.2	148	14.6	516	12.5	443	12.2	430	n.a.	n.a.	n.a.	n.a.
	4-13	3.5	124	12.4	437	12.5	443	12.5	442	10.5	370	10.2	359
ALLEGRO 90	4-10	4.7	166	16.5	583	14.1	498	13.7	483	n.a.	n.a.	n.a.	n.a.
	4-13	4.1	143	14.2	501	14.1	498	14.1	497	12.0	425	11.7	412
ALLEGRO 110	4-10	3.3	117	19.1	674	17.0	601	16.5	583	n.a.	n.a.	n.a.	n.a.
	4-13	2.8	98	16.0	565	15.9	562	15.9	561	14.7	520	14.3	504

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

** Noise level measured according to ISO 2151 with optional baffle.

All technical data for air-cooled machines without integrated dryer. For technical data of water-cooled machines or machines with integrated dryer, please contact your local salesforce.

Model	Motor power		Noise level **	Cooling air volume	Weight		Compressed air output diameter		
	kW	hp			dB(A)	m ³ /h		std	plus
								kg	kg
ALLEGRO 45	45	60	69	7200	925	1110	1"1/2		
	45	60	68	7200					
ALLEGRO 55	55	75	71	9000	1200	1473	2"		
	55	75	70	9000					
ALLEGRO 75	75	100	71	12600	1387	1660	2"		
	75	100	70	12600					
ALLEGRO 76	75	100	70	12600	1640	NA	2"		
	75	100	69	12600					
ALLEGRO 90	90	125	71	14760	1670	NA	2"		
	90	125	70	14760					
ALLEGRO 110	110	150	74	14760	1900	NA	2"		
	110	150	73	14760					



Dimensions Allegro

Model	Length std	Length plus	Width	Height
	mm	mm		
ALLEGRO 45	1684	2333	1060	1630
ALLEGRO 55	1923	2773	1060	1630
ALLEGRO 75				
ALLEGRO 76	2125	NA	1060	1630
ALLEGRO 90				
ALLEGRO 110	2333	NA	1060	1630

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Screw Compressors



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The team at Ash Air is passionate about the performance of their products and services, with more than fifty qualified engineers working throughout the country providing unsurpassed compressed air solutions.

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