

# CONNECTING COST EFFICIENCY AND PERFORMANCE



LARGO 55-90 KW & EVOLUTO 45-90 KW  
OIL INJECTED SCREW COMPRESSORS

# EXPERIENCE THE NEW LARGO 55-90 KW & EVOLUTO 45-90 KW SCREW COMPRESSORS

## CONNECTING COST EFFICIENCY AND PERFORMANCE

The new range offers you excellent performance, plug-and-play installation and the reliability you can expect from the ALUP brand. The advanced connectivity adds intelligence to your compressor, allowing you to decrease operating costs further while increasing productivity.

READY TO DISCOVER  
OUR NEW COMPRESSORS?

↑  
**IMPROVED  
PERFORMANCE**

Built with the newest technology, our compressor range features IE4 motors which are the best in order to reach high performance and energy cost savings.



↑  
**KNOWN ALUP  
RELIABILITY**

Our range has always been valued for their excellent reliability. This is also something you can expect from the new range, plus that little bit more.

↑  
**STAY CONNECTED**

The Airlogic<sup>2</sup>T controller gives you insight into the performance of your compressed air system – remotely and at any given moment – allowing you to make smarter use of your resources.

## MAIN FEATURES



### New air end

- The in-house designed compression element, combined with an IE4 efficiency motor, comes with increased performance, lower compression temperature and high reliability.
- The Free Air Delivery is increased up to +4% and power consumption is reduced by up to -3% thanks to the improved product selection and our in-house designed compressor element.
- Fit for environments with ambient temperatures of up to 46°C due to superior component design.



### Easy installation and service

- Effortless maintenance thanks to the easily removable panels and quick access to all service parts.
- Low maintenance costs.



### In-house designed components

- The spring-controlled unloader valve includes a more precise mechanism that allows to release excess pressure in a more reliable way.



### Integrated dryers

- The whole Industrial range is now available with integrated dryers.
- Internal Water Separator integrated in air cooler for machines with integrated dryer.



### Airlogic<sup>2</sup>T

- An intuitive and easy-to-operate control system gives you an insight into the performance of your compressed air system – remotely and at any given moment.
- Controls the unit by maintaining the pressure between programmable limits.
- Protects the unit thanks to the programmed shutdown warnings.
- Maintains the unit thanks to our programmed service time interval meter, informing the customer when service is due.



### Silencing baffle

- Guarantees reduced noise levels.
- Even more important when operating the compressor close to the point-of-use.



### Air quality

- A water separator drain comes as standard on units with an integrated dryer.
- Removes the condensate formed in the cooler as the compressed air is cooled.
- Improves the air quality.



### High efficiency motor

- IE4 Super Premium efficiency class.
- Oil-cooled PM – aircooled induction.
- IP66 protection against dust ingress.
- Introducing the 90kW PM machine will complete the PM range for partner brands.



## YOUR PARTNER IN SUSTAINABILITY

We only have this one planet. That is why sustainability guides everything we do at ALUP. The innovations we develop and the products we build are geared toward reducing your energy consumption and your CO<sub>2</sub> footprint, and helping the environment all of us share. Supporting your sustainable operation is our number one priority.



## GENEROUS AND SMART COOLING SYSTEM

- Bigger air oil coolers have been selected, resulting in a high cooling capacity, maximum cooling efficiency and increased reliability.
- The large fan provides forced ventilation and conveyed flows, improving the air flow and reducing operating temperature for enhanced reliability.

# 10 REASONS TO CHOOSE EVOLUTO

The Evoluto range is the result of dedicated investments in R&D and in-house developed key components. By maximizing performance, energy efficiency and reliability of each individual component we have ensured that the final result is our most innovative compressor to date.



## 1. Interior Permanent Magnet (iPM) motor

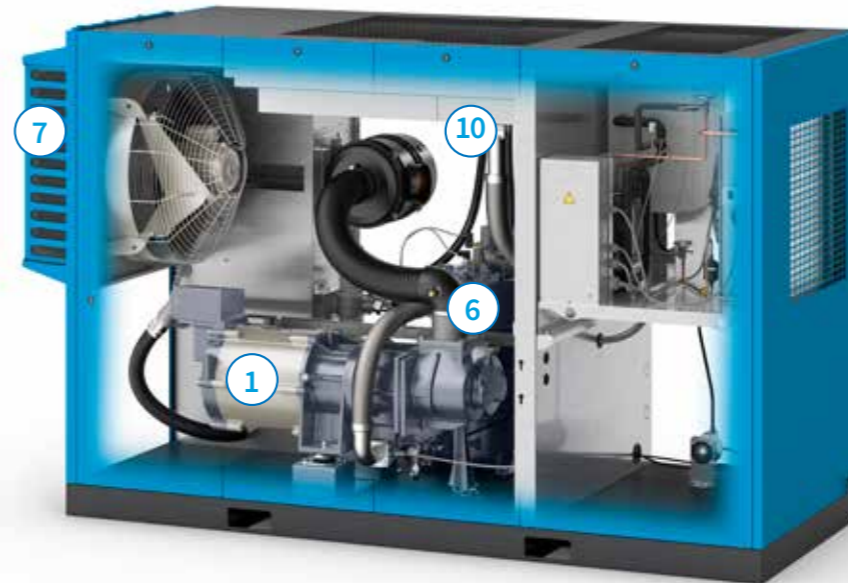
- IE4 Super Premium Efficiency.
- Oil-cooled, optimal cooling at all speeds.
- IP66, highest possible protection against dust ingress.
- In-house designed.

## 2. New generation screw elements

- Superior performance and efficiency.
- Improved rotor profile, reduced pressure losses.
- In-house designed and produced in Belgium.

## 3. Integrated dryer

- Enhanced air quality
- Condensate removal at the source, minimizing pipework corrosion
- Reduced footprint, up to 1/3 of a standalone dryer
- Single service visit, reducing maintenance cost
- No installation cost



## 6. Proven inlet valve

- Optimizing the inlet flow to the screw element.
- Maintenance-free, low total cost of ownership.
- In-house designed.

## 7. Solid inlet baffle

- Filters mats pre-filter incoming air, ensuring superior air quality.
- Highly efficient and low noise axial fan as standard.

## 8. Casted oil separator vessel

- Integrated minimum pressure valve (MPV) eliminates risk of leakage.
- Designed for optimal oil separation and low oil carry over.



## 4. Airlogic<sup>2</sup> T touchscreen controller

- Easy-to-use full-color graphical display with touchscreen.
- Integrated connectivity helps optimizing and save energy.
- In-house designed.

## 5. Imperium - Variable Speed Technology

- Robust industrial design with IP5X protection.
- Tailor-made for screw compressor applications.
- In-house designed.

## 9. Quality filtration

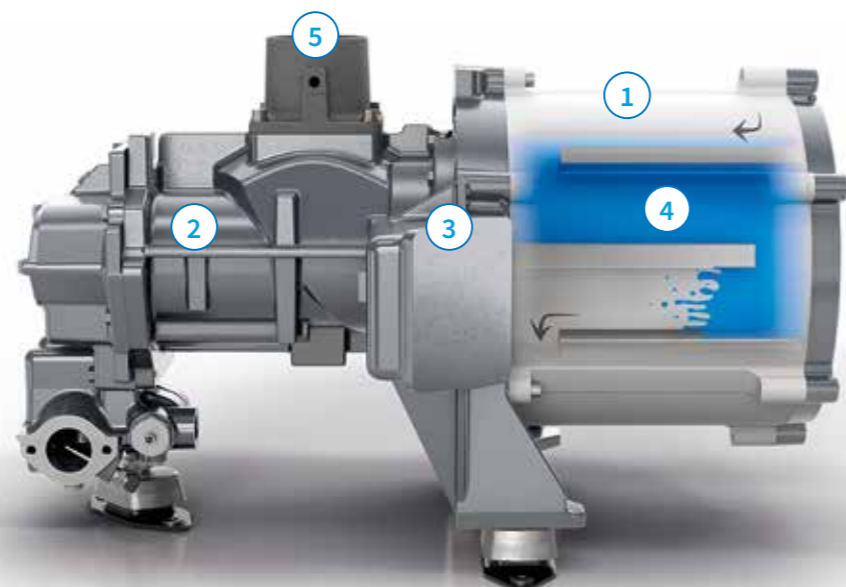
- Protecting internal components and increasing lifetime.
- Heavy duty air/oil/oil separator filters with long lifetime for low total cost of ownership.

## 10. 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.
- Integrated water separation for coolers used on machines with integrated dryers.



# REVOLUTIONARY DRIVE TRAIN TECHNOLOGY



## ↑ IMPROVED ENERGY EFFICIENCY SAVES YOU MONEY

- In-house designed iPM motor (1) with IE4 Super Premium Efficiency.
- New generation in-house designed screw elements (2), with improved efficiency.
- Integrated direct drive transmission (3) for minimal losses.
- Smart inlet valve (5) optimizes the inlet flow and improves efficiency.

## ↑ INCREASED RELIABILITY EXTENDS LIFETIME

- iPM motor (1) rated IP66, premium protection against dust and water ingress.
- Globally renowned screw elements (2), proven in thousands of installations.
- Optimal cooling at all speeds and conditions thanks to oil-cooling principle (4) of the iPM motor (1).

## ↑ MAINTENANCE-FREE DESIGN MINIMIZES DOWNTIME AND IMPROVES YOUR PRODUCTIVITY

- No (re)grease(ing) of the motor (1) bearing needed.
- Coupling-free direct drive design (3), no maintenance needed.
- Smart inlet valve (5), no maintenance needed.



# A BIG LEAP IN ENERGY EFFICIENCY

## WHY ENERGY EFFICIENCY?

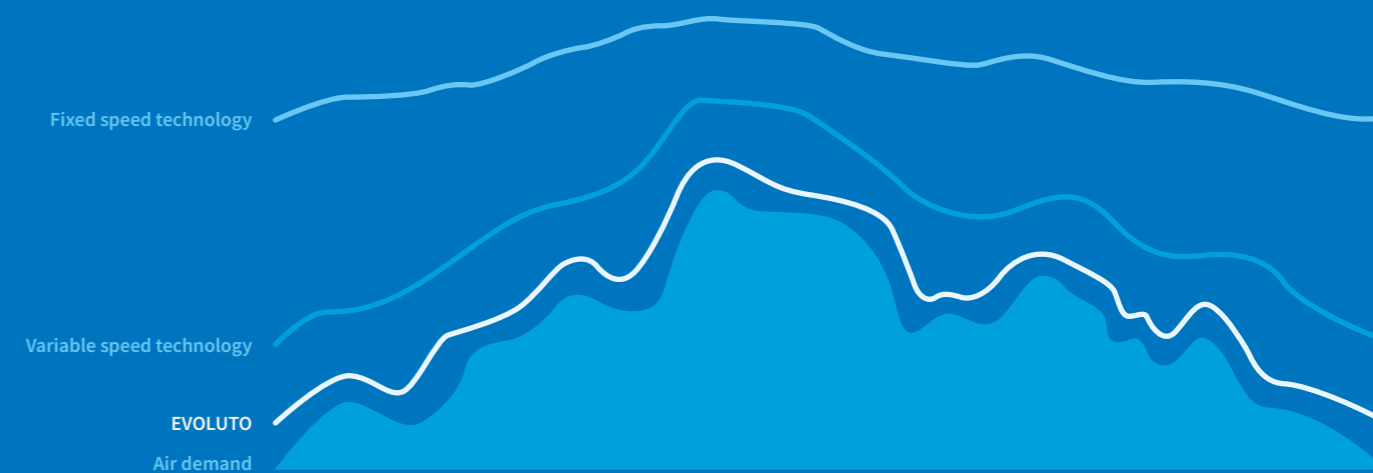
Energy costs represent about 70% of the total operating cost of your compressor over a 5-year period.

## WHY VARIABLE SPEED COMPRESSORS?

By matching the air supply to the air demand, unload losses are avoided, and energy costs reduced on average by 30%.

## WHY INVEST IN EVOLUTO?

Imperium variable speed technology combined with iPM motor technology and evolved the energy efficiency of variable speed compressors to a new level, resulting in energy savings of up to 45%.



**3%**  
Installation

**77%**  
Energy consumption

**45%**  
Fixed speed technology

**8%**  
Service

**12%**  
Investment

## How much energy could you save in your existing compressor installation?

Contact us for an energy audit. We will measure the air demand and energy consumption of your existing installation and generate a detailed report at the end. Based on your specific situation we can simulate and show how much your energy costs would reduce with an Evoluto. If you would decide to invest in an Evoluto, you can expect a typical payback of 1-2 years.

## EQUIPPED WITH THE AIRLOGIC<sup>2</sup>T CONTROLLER BRINGING YOU A NEXT-LEVEL, RUGGED AND INTUITIVE DISPLAY.

The new Airlogic<sup>2</sup>T is an incredible state-of-the-art compressor controller. But more than this, it means ease of use, peace of mind, and performance optimisation. In combination with our ICONS Intelligent Connectivity System, the Airlogic<sup>2</sup>T allows you to improve both the reliability and efficiency of your production process.

- BIG, EASY TO USE 4" TOUCH CONTROL WITH A SIMPLIFIED LAY-OUT
- THE COMPRESSOR IS PROTECTED WITH SENSORS TO IMMEDIATELY ALERT YOU WHEN SOMETHING IS WRONG
- CLEAR OVERVIEW OF ALL PARAMETERS AND SERVICE INTERVALS



- PLAN MAINTENANCE INTERVENTIONS AT THE RIGHT TIME, GUARANTEE SYSTEM UPTIME AND ELIMINATE BREAKDOWN RISKS
- DESIGNED FOR INTUITIVE USE IN HEAVY DUTY ENVIRONMENTS

## ICONS

### INCREASED UPTIME, POWERED BY ICONS

With the Intelligent CONnectivity System (ICONS), data and insights are delivered straight from your machines to your computer, tablet or smartphone.

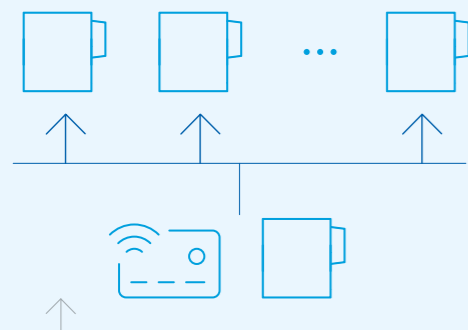
The new range of compressors can be fully connected.



## EControl6i

THE OPTIONAL ECO6I CONTROLLER ALLOWS YOU TO OPTIMIZE BOTH WORKLOAD AND ENERGY CONSUMPTION.

Do you operate more than 2 compressors? The Airlogic<sup>2</sup>T can act as a master controller thanks to its built-in **EControl6i** functionality. Reduce service costs by evenly distributing running hours over your compressors and save energy by using one pressure band for your entire compressor room.



## BUILT-IN OPTIONS



### AIR QUALITY

#### Integrated water separation drains

Ensures efficient condensate removal.

#### Tropical thermostatic valve

For use in humid and hot conditions.

#### Freeze protection

Guarantees a certain oil temperature in the oil vessel to avoid condensation.

#### Integrated refrigerant dryer

Removes water condensate from the compressed air, minimizing the risk of product spoilage in your application.

### ENERGY SAVING

#### Integrated energy recovery

Recovers up to 75% of the heat energy formed during the compression process, which can be used to heat up water for boilers, showers, etc.

#### ECO2i – ECO4i – ECO6i

Integrated multiple compressor control for up to 6 compressors reduces system pressure and energy consumption.



### A RANGE OF OPTIONS

- FULL FEATURE MACHINES
- WATERCOOLING
- WATER SEPARATION DRAIN - MECHANICAL (PACK ONLY)
- INTEGRATED ENERGY RECOVERY
- OIL - 8000H OIL SYNTHETIC
- TEST REPORT
- WATER SEPARATION DRAIN - ELECTRONIC
- EXPANSION MODULE
- PREFILTER KIT
- POWER DUCT FAN - AC\*
- OIL PREHEATER = FREEZE PROTECTION
- OIL - 4000H OIL FOOD GRADE
- ECO2I
- ECO4I
- ECO6I
- MAIN POWER ISOLATOR SWITCH
- TROPICAL THERMOSTAT
- EMC FILTER
- COMPRESSOR RUNNING-L/ULSIGNAL - REMOTE CONTROL

\* Not on 90kW

# PERFORMANCE DATA

## FIXED SPEED LARGO 55-90

Model	Max working pressure bar(g)	Reference working pressure bar(g)	Free air delivery @ reference conditions			Motor power		Noise level dB(A)	Cooling air volume m³/h	Weight		Compressed air output diameter
			m³/h	l/s	cfm	kW	Hp			STD kg	PLUS kg	
<b>50Hz</b>												
LARGO 55	7.5	7	626	174	369	55	75	71	2.62	1123	1431	2 1/2
	8.5	8	598	166	352	55	75	71	2.62	1123	1431	2 1/2
	10	9.5	536	149	316	55	75	70	2.62	1123	1431	2 1/2
LARGO 75	13	12.5	475	132	280	55	75	70	2.62	1123	1431	2 1/2
	7.5	7	806	224	475	75	100	73	2.62	1189	1510	2 1/2
	8.5	8	778	216	458	75	100	72	2.62	1189	1510	2 1/2
	10	9.5	720	200	424	75	100	73	2.62	1189	1510	2 1/2
LARGO 76	13	12.5	623	173	367	75	100	73	2.62	1189	1510	2 1/2
	7.5	7	900	250	530	75	100	71	2.62	1284	1605	2 1/2
	8.5	8	828	230	487	75	100	71	2.62	1284	1605	2 1/2
	10	9.5	763	212	449	75	100	71	2.62	1284	1605	2 1/2
LARGO 90	13	12.5	662	184	390	75	100	72	2.62	1284	1605	2 1/2
	7.5	7	1022	284	602	90	120	72	3.52	1346	1672	2 1/2
	8.5	8	976	271	574	90	120	71	3.52	1346	1672	2 1/2
	10	9.5	911	253	536	90	120	73	3.52	1346	1672	2 1/2
	13	12.5	767	213	451	90	120	71	3.52	1346	1672	2 1/2
<b>60Hz</b>												
LARGO 55	6.9	7	637	177	375	55	75	71	2.9	1123	1431	2 1/2
	8.6	8	583	162	343	55	75	71	2.9	1123	1431	2 1/2
	10.3	9.5	554	154	326	55	75	73	2.9	1123	1431	2 1/2
	12	12.5	504	140	297	55	75	70	2.9	1123	1431	2 1/2
LARGO 75	6.9	7	814	226	479	75	100	73	2.9	1189	1510	2 1/2
	8.6	8	778	216	458	75	100	73	2.9	1189	1510	2 1/2
	10.3	9.5	702	195	413	75	100	73	2.9	1189	1510	2 1/2
	12	12.5	634	176	373	75	100	73	2.9	1189	1510	2 1/2
LARGO 76	6.9	7	889	247	523	75	100	71	2.9	1284	1605	2 1/2
	8.6	8	817	227	481	75	100	71	2.9	1284	1605	2 1/2
	10.3	9.5	738	205	434	75	100	71	2.9	1284	1605	2 1/2
	12	12.5	680	189	400	75	100	72	2.9	1284	1605	2 1/2
LARGO 90	6.9	7	1058	294	623	90	120	72	3.06	1346	1672	2 1/2
	8.6	8	950	264	559	90	120	72	3.06	1346	1672	2 1/2
	10.3	9.5	882	245	519	90	120	71	3.06	1346	1672	2 1/2
	12	12.5	767	213	451	90	120	71	3.06	1346	1672	2 1/2

## VARIABLE SPEED EVOLUTO 45-90

ALUP	working pressure bar	min. Free air delivery (7bar)			max. Free air delivery														
		7 m³/h	7 l/s	7 cfm	7	7	7	9.5	9.5	9.5	10	10	10	12.5	12.5	12.5	13	13	13
EVOLUTO 45	4-13bar	104	29	61	544	151	320	488	136	287	477	132	280	418	116	246	406	113	239
EVOLUTO 55	4-13bar	119	33	70	657	183	387	576	160	339	560	156	330	477	132	281	459	128	270
EVOLUTO 75	4-13bar	119	33	70	791	220	465	714	198	420	697	194	410	612	170	360	596	166	351
EVOLUTO 76	4-13bar	180	50	106	936	260	551	845	235	497	802	223	472	717	199	422	751	208	442
EVOLUTO 90	4-13bar	126	35	74	1069	297	629	955	265	562	929	258	547	813	226	479	791	220	466

ALUP	Motor power		Noise level dB(A)	Cooling air volume m³/s	Weight		Compressed air output diameter
	kW	Hp			STD kg	PLUS kg	
EVOLUTO 45	45	60	70	2.62	956	1264	2 1/2
EVOLUTO 55	55	75	70	2.62	966	1274	2 1/2
EVOLUTO 75	75	100	72	2.62	986	1307	2 1/2
EVOLUTO 76	75	100	71	2.62	1119	1440	2 1/2
EVOLUTO 90	90	120	72	3.52	1132	1458	2 1/2

# ALUP'S HERITAGE

Founded in Germany in 1923, ALUP derives its name from the automotive products that were manufactured in the mechanical workshop in Köngen where the company came into existence: Auto-Luft-Pumpen. ALUP developed its first piston compressor just two years later. In 1980, rotary screw compressors were added to its product range.

The experience and expertise the company gained each year, coupled with a spirit of innovation, has led to today's high-quality product offer. The name ALUP Kompressoren has become synonymous with innovative technology blended with a strong sense of tradition. To this day, ALUP Kompressoren is operating out of the heart of Baden-Württemberg, where it all began nearly a century ago.



## DRIVEN BY TECHNOLOGY, DESIGNED BY EXPERIENCE

Discover what happens when passion for technology meets hands-on industrial experience: designs that are easier to install and maintain, allowing you to focus on your job. Our extensive product range features the right machine for you – including the options that meet your performance requirements perfectly. High energy efficiency ensures return on investment and reduces your carbon footprint. And, because customer proximity is one of our hallmarks, you will always be one step ahead when your needs change.

1923 1925

Founded in Germany

First piston compressor

1980

First rotary screw compressors

today

Innovative technology

# BECAUSE IMPROVEMENT NEVER STOPS



Contact your local ALUP Kompressoren representative



## 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.

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