ALUP
Kompressoren

# BECAUSE IMPROVEMENT NEVER STOPS

LARGO 15-25 & EVOLUTO 8-22
LARGO 31-45 & EVOLUTO 26-45
OIL-INJECTED SCREW COMPRESSORS

www.alup.com

How do you make a best-in-class compressor range even better? By adding unmatched efficiency. The new 7-22 kW Evoluto and its iPM technology now offer you double-digit energy savings and a smaller environmental footprint. Compact and quiet, all models can be used in your compressor room or at the point of use, as a primary or as a complementary compressor. So no matter how tough your requirements, our most versatile rotary screw compressor is sure to meet them.

## PERFORMANCE

- Up to 45% energy savings with Evoluto's IE4 iPM motor (compared to fixed-speed).
- Up to 17% improved energy efficiency with new iPM technology (compared to Induction Motor VSD).
- Reliable operation, even in ambient temperatures up to 46°C.
- The IP54-enclosed drive train safeguards performance in dusty and humid conditions.
- Direct and iPM drive ensure reliable performance.
- Sound levels as low as 62 dB(A).
- Advanced Airlogic2T touchscreen controller maximizes performance and efficiency.

## FLEXIBILITY

- From 7-22 kW with a pressure range between 4 and 13 bar.
- Available with iPM, Variable Speed Drive and fixed-speed drive train technology.
- Floor-mounted or tank-mounted models, with or without integrated dryer.
- Multiple tank sizes available.
- Can be installed in your compressor room or at the point of use.
- Flexible customization with wide range of options.

# A VERSATILE RANGE

### LARGO 15-25 FIXED-SPEED

- Superior technology compared to belt drive thanks to in-house air end design and gearbox technology.
- Built for long duty cycles and continuous operation.
- IP55, class F IE3 motor, ideal for operation in tough conditions.
- Robust and silent design.
- Payback within 2 years for upgrade from belt drive to gear drive.

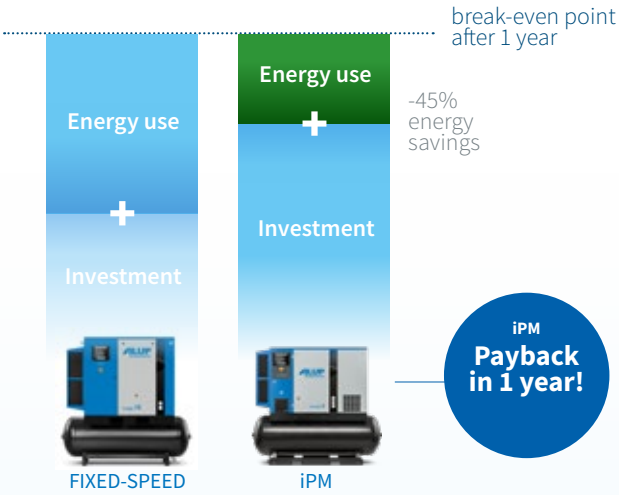
| + TCO* SAVINGS | EVOLUTO 8-22 iPM |
|---|---|
| PERFORMANCE | • Up to 17% additional energy savings compared to traditional VSD technology.<br>• Ideal for highly efficient operation during fluctuating air demand. |
| SERVICEABILITY | • Energy savings of up to 45% compared to fixed-speed. |
| LIFETIME | • IP54, class H IE4 motor, oil-cooled for top performance.<br>• New design of air end and motor connection facilitates drive train maintenance.<br>• Payback after approximately 1 year for upgrade from fixed-speed to iPM. |

* Total Cost of Ownership.

# IPM FOR MAJOR ENERGY SAVINGS

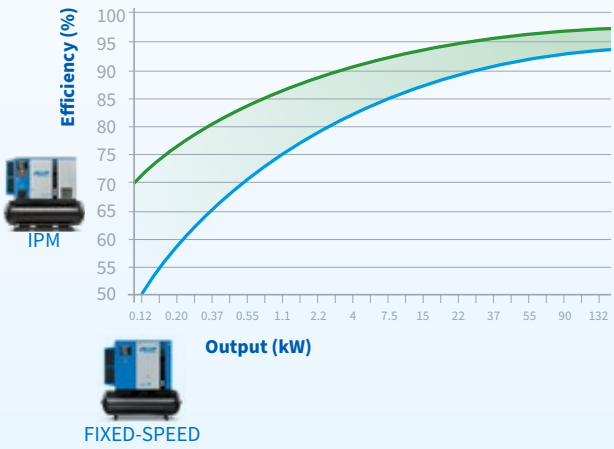
Energy takes up more than 70% of the cost of owning and operating a compressor. ALUP's iPM technology was developed to give you significant energy savings. While traditional compressors only have one speed (100% on), iPM compressors adjust their motor speed to follow the fluctuating air demand that most production environments have. As a result, the Evoluto 8-22 delivers energy savings of up to 45%. That means you can earn back the extra cost of the Evoluto (compared to a fixed-speed unit) in just 1 year. How's that for an easy decision?

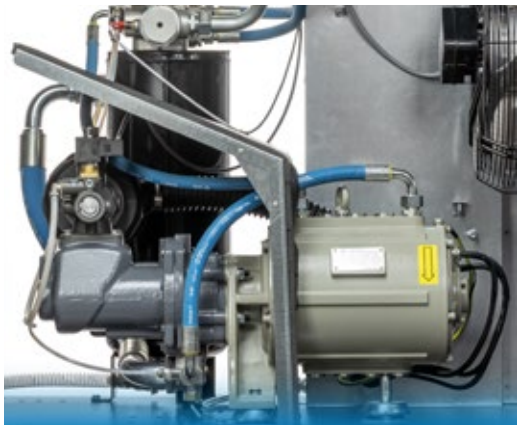
## PAYBACK IN 1 YEAR




## THE BIGGER BENEFIT OF A SMALL iPM COMPRESSOR

Does energy efficiency make less of a difference in small compressors? On the contrary! iPM technology delivers its biggest energy savings (compared to fixed-speed models) in smaller compressors. That is why you can achieve return on your iPM investment after just 1 year.

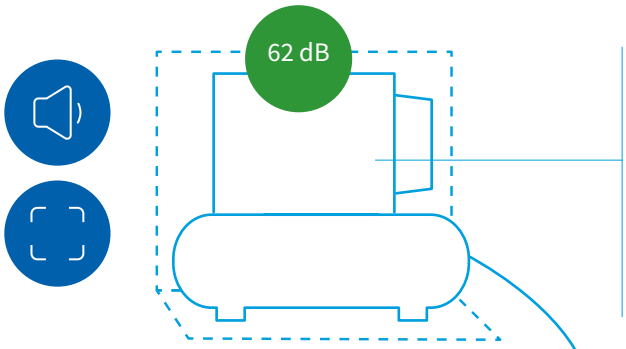


# STATE-OF-THE-ART ENGINEERING

At the heart of our model line-up, you will find best-in-class compression technology, designed and built for a lifetime of top performance.
Just take a look at the Evoluto's drive train. Rated IE4 efficiency and class H motor windings, its maintenance-free interior permanent magnet motor gives you optimal efficiency in the hottest conditions:

- → HIGH EFFICIENCY CREDIT TO ITS DIRECT DRIVE, IE4 PERMANENT MAGNET MOTOR AND HIGH TURN-DOWN RATIO
- → HIGH RELIABILITY RESULTING FROM ITS OIL COOLING AND CLASS H MOTOR WINDINGS
- → EASY MAINTENANCE AND LOW DOWNTIME THANKS TO THE NEW DRIVETRAIN COUPLING SYSTEM

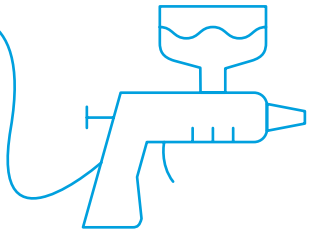



## THE COMPACT ALL-IN-ONE COMPRESSED AIR SYSTEM…

ALUP compressors are built to save space. And if you choose a tank-mounted model, you get an all-in-one compressed air system with the smallest footprint. For maximum air quality, a refrigerant dryer can be fully integrated.

## … THAT CAN BE INSTALLED AT THE POINT OF USE

Thanks to their quiet operation and integrated design, our small rotary screw units can be installed on your production floor. That means you don't need a separate compressor room and can save on floor space, piping, and installation costs. You can reduce your investment and operational costs as well, as you can operate the machine at a lower pressure setting and eliminate pressure drops throughout your piping network.



✓ Minimal pressure drops
✓ Higher FAD

SAVE ON INVESTMENT COSTS

SAVE ON OPERATIONAL COSTS

## ADVANCED MONITORING, CONTROL & CONNECTIVITY

The state-of-the-art Airlogic²T touchscreen controller – included as standard – gives you on-screen and remote insight into the performance of your compressor:

- → LARGE 4.3" FULL-COLOR TOUCHSCREEN DISPLAY
- → 30+ LANGUAGES
- → WARNING INDICATIONS AND SHUTDOWN ALARMS
- → SERVICE STATUS AND SCHEDULE INDICATION
- → VISUALISATION OF RUNNING CONDITIONS OVER LAN NETWORK
- → COMPRESSOR DATA ANALYSIS OVER ICONS

## ICONS

## INCREASED UPTIME, POWERED BY ICONS

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

- Increase the reliability of your machine by identifying problems before they become a threat to the continuity of your production.
- Analyze and optimize your energy consumption and $CO_2$ emissions.
- Receive high-quality energy reports ensuring the ISO50001 compliance of your site.

# PREMIUM COMPRESSION TECHNOLOGY

**OIL-COOLED IE4 EFFICIENCY AND CLASS H INTERIOR PERMANENT MAGNET (IPM) MOTOR:**

Maintenance free; includes innovative oil-cooling technology for optimal performance in up to 46°C.

**IP54 ELECTRICAL CUBICLE:**

Can withstand up to 60°C with the highest standards in EMC performance.

**IN-HOUSE DESIGNED COMPRESSION ELEMENT:**

Gives you best-in-class Free Air Delivery and Specific Energy Requirement.

**DRIVE TRAIN:**

IE4 oil-cooled motor for optimal cooling performance. All-new conical coupling design for fast maintenance on the drive train.

**OVERSIZED COOLERS AND OIL VESSEL:**

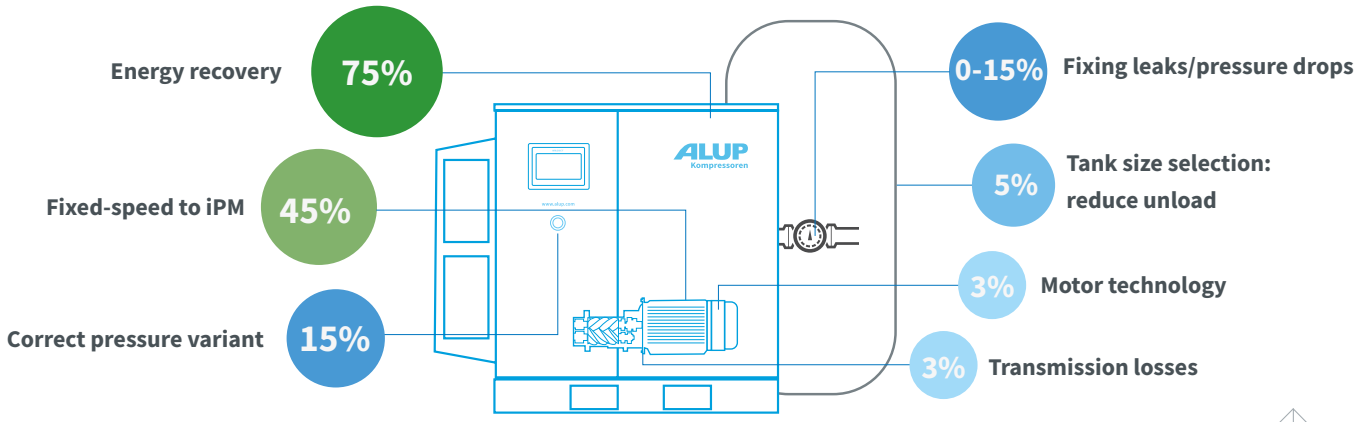
For improved performance.

## A RANGE OF OPTIONS

- → ENERGY RECOVERY
- → WATER SEPARATION DRAIN
- → ELECTRONIC WATER DRAIN
- → HEAVY DUTY AIR INLET FILTER
- → SILENCING BAFFLE
- → CANOPY HEATER
- → 8000H OIL
- → LINE FILTER G
- → FOOD GRADE OIL
- → OPT.ECONTROL 6I

## MAXIMIZE YOUR ENERGY SAVINGS

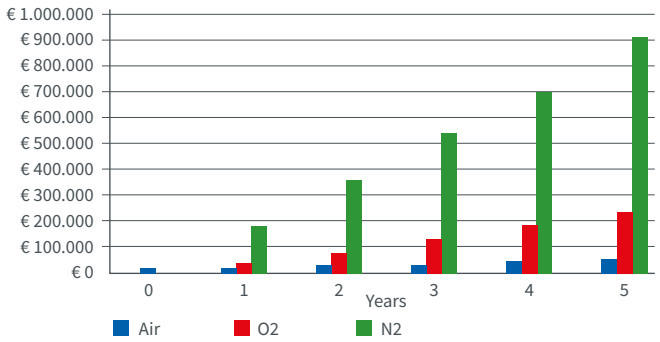
Energy is by far the biggest cost of owning and operating a compressor. Luckily, there are many options to minimize the energy consumption of your air system. Technologies such as energy recovery can have a huge impact on your bottom line and your environmental footprint, with energy savings of up to 75%. A holistic view of your compressed air system is key. It starts with the selection of efficient technologies when buying your compressor. But it doesn't end there. Monitoring and analyzing your air system as you use it will often reveal optimization opportunities. Your ALUP representative can help you find those savings.



# HIGH-PRESSURE AIR SOLUTIONS FOR PRECISION LASER CUTTING

Evoluto 15-22 16 bar has been developed as a high-pressure oil-injected screw compressor dedicated to laser cutting applications. By supplying clean, dry and stable high-pressure air, it offers manufacturers a reliable assist gas source designed to support productivity improvements and reduce operating expenditure.

## COST EFFICIENCY OF COMPRESSED AIR




A 5-year cost comparison demonstrates the financial benefit of compressed air as an assist gas solution. Even after including the initial compressor investment, air remains considerably more economical than traditional oxygen and nitrogen supply in suitable applications. With clean, dry and correctly filtered compressed air, manufacturers can reduce gas expenses, simplify daily operation and improve production profitability under the right cutting and air quality conditions.

## WHAT MAKES EVOLUTO 15-22 16 BAR DEDICATED FOR LASER CUTTING

### INTEGRATED +3°C DEW POINT DRYER

The dryer is sized for high-pressure laser cutting duty and continuous operation under demanding conditions. It helps keep the compressed air dry and stable, supports moisture control and reduces the risk of condensate reaching the laser cutting head.

### HIGH-EFFICIENCY FILTRATION

Moisture removal alone is not sufficient for laser cutting air quality. Dust, oil particles and oil mist must also be controlled. The high-efficiency filtration system removes these contaminants and supports air quality up to ISO 8573-1:2010 Class 1.4.1 throughout the filter element lifetime.

### OVERSIZED COOLERS AND OIL VESSEL

Oversized cooling components and oil vessel design support thermal stability, reliable performance and long service life.

## OPTIONS

- → ENERGY RECOVERY
- → WATER SEPARATION DRAIN ELECTRONIC
- → WATER DRAIN
- → HEAVY DUTY AIR INLET FILTER
- → SILENCING BAFFLE CANOPY
- → HEATER
- → 8000H OIL
- → OPT.ECONTROL 6

# TECHNICAL SPECIFICATIONS

## LARGO 15-25

| Model | Max. working pressure | Reference working pressure | Free Air Delivery @ reference conditions* | | | Motor power | | Noise level ** | Cooling air flor | Weight | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Base Mounted | Base Mounted Dryer | Tank Mounted Dryer 500L |
| | bar | bar | m³/h | l/s | cfm | kW | HP | db(A) | m³/h | kg | | |
| LARGO 15 | 7.5 | 7 | 162 | 44.9 | 95 | 15 | 20 | 67 | 2484 | 345 | 400 | 575 |
| | 8.5 | 8 | 152 | 42.3 | 90 | | | | | | | |
| | 10 | 9.5 | 136 | 37.8 | 80 | | | | | | | |
| | 13 | 12.5 | 117 | 32.4 | 69 | | | | | | | |
| LARGO 19 | 7.5 | 7 | 199 | 55.3 | 117 | 18.5 | 25 | 68 | 3492 | 370 | 430 | 605 |
| | 8.5 | 8 | 189 | 52.4 | 111 | | | | | | | |
| | 10 | 9.5 | 175 | 48.7 | 103 | | | | | | | |
| | 13 | 12.5 | 137 | 38 | 80 | | | | | | | |
| LARGO 22 | 7.5 | 7 | 231 | 64.3 | 136 | 22 | 30 | 69 | 3492 | 385 | 445 | 620 |
| | 8.5 | 8 | 224 | 62.4 | 132 | | | | | | | |
| | 10 | 9.5 | 198 | 54.9 | 116 | | | | | | | |
| | 13 | 12.5 | 167 | 46.5 | 99 | | | | | | | |
| LARGO 25 | 7.5 | 7 | 253 | 70.2 | 149 | 26 | 35 | 71 | 6516 | 400 | 460 | 635 |
| | 8.5 | 8 | 239 | 66.4 | 141 | | | | | | | |
| | 10 | 9.5 | 224 | 62.1 | 132 | | | | | | | |
| | 13 | 12.5 | 196 | 54.4 | 115 | | | | | | | |

## EVOLUTO 8-22

| Model | Min. working pressure | Refe-rence working pressure | Motor power | | Min. FAD* | | Free Air Delivery @ reference conditions* Max. FAD* | | | | | | Noise level ** | Cooling air flow | Weight (kg) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 7 bar | | 7 bar | | 9.5 bar | | 12.5 bar | | | | Base Mounted | Base Mounted Dryer | Tank Mounted Dryer | |
| | bar | bar | kW | HP | m³/h | l/s | m³/h | l/s | m³/h | l/s | m³/h | l/s | db(A) | m³/h | | | 270 L | 500 L |
| EVOLUTO 8 | 4 | 10 | 7.5 | 10 | 16.6 | 4.6 | 77.8 | 21.6 | 67.7 | 18.8 | 56.5 | 15.7 | 62 | 0.61 | 210 | - | 365 | 395 |
| EVOLUTO 11 | 4 | 10 | 11 | 15 | 22.7 | 6.3 | 115.9 | 32.2 | 95.8 | 26.6 | 74.9 | 20.8 | 63 | 0.61 | 212 | - | 367 | 397 |
| EVOLUTO 14 | 4 | 10 | 15 | 20 | 20.5 | 5.7 | 139.7 | 38.8 | 119.5 | 33.2 | 92.2 | 25.6 | 64 | 0.61 | 223 | - | 393 | 425 |
| EVOLUTO 15 | 4 | 10 | 15 | 20 | 43.2 | 12 | 182.2 | 50.6 | 156.6 | 43.5 | 132.8 | 36.9 | 64 | 0.69 | 325 | 380 | - | 555 |
| EVOLUTO 18 | 4 | 10 | 18.5 | 25 | 42.1 | 11.7 | 214.6 | 59.6 | 185.0 | 51.4 | 146.2 | 40.6 | 68 | 0.97 | 340 | 400 | - | 575 |
| EVOLUTO 22 | 4 | 10 | 22 | 30 | 41.4 | 11.5 | 246.6 | 68.5 | 208.8 | 58 | 188.6 | 52.4 | 69 | 0.97 | 345 | 410 | - | 585 |

## EVOLUTO 15-22 16 BAR

| Model | Min Working Pressure | Refe-rence Working Pressure | Motor Power | | Min. FAD* | | Free Air Delivery @ reference conditions * Max. FAD* | | | | Noise level ** | Cooling air flow | Weight (kg) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 15.5 bar | | 12.5 bar | | 15.5 bar | | | | Base Mounted | Tank Mounted Dryer 475L | |
| | bar | bar | kw | hp | m³/h | l/s | m³/h | l/s | m³/h | l/s | dB(A) | m³/h | | Without Filters | With Filters |
| EVOLUTO 15 | 10 | 16 | 15 | 20 | 25,9 | 7,2 | 111,2 | 30,9 | 100,8 | 28 | 64 | 0,69 | 305 | 605 | 615 |
| EVOLUTO 18 | 10 | 16 | 18 | 25 | 40,3 | 11,2 | 153,0 | 42,5 | 123,1 | 34,2 | 68 | 0,97 | 345 | 655 | 665 |
| EVOLUTO 22 | 10 | 16 | 22 | 30 | 42,8 | 11,9 | 186,5 | 51,8 | 154,4 | 42,9 | 69 | 0,97 | 355 | 665 | 675 |

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

## DIMENSIONS

| | Largo 15-25 | | | Evoluto 8-14 | | | Evoluto 15-22 | | | Evoluto 15-22 16 bar | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Dimensions (mm) | | | Dimensions (mm) | | | Dimensions (mm) | | | Dimensions (mm) | | |
| | Length | Width | Height | Length | Width | Height | Length | Width | Height | Length | Width | Height |
| Base Mounted | 1395 | 835 | 1220 | 1165 | 655 | 1045 | 1395 | 835 | 1220 | 1395 | 835 | 1220 |
| Base Mounted Dryer | 1545 | 835 | 1220 | - | - | - | 1545 | 835 | 1220 | - | - | - |
| Tank Mounted Dryer 270L | - | - | - | 1655 | 655 | 1550 | - | - | - | - | - | - |
| Tank Mounted Dryer 500L | 1940 | 835 | 1835 | 1935 | 655 | 1680 | 1940 | 835 | 1835 | - | - | - |
| Tank Mounted Dryer 475L | - | - | - | - | - | - | - | - | - | 1940 | 835 | 1835 |
| Tank Mounted Dryer 475L + Filter | - | - | - | - | - | - | - | - | - | 2000 | 835 | 1835 |

# EVOLUTO 26-45

## Reliable Performance. Lower Energy Costs. Maximum Uptime.

Designed for demanding industrial environments, the new **Evoluto 26-45** combines reliability, efficiency and ease of operation in a compact package.

## LOWER TOTAL COST OF OWNERSHIP

Energy typically represents more than 70% of a compressor's lifecycle cost. Intelligent speed control technology matches air production to demand, significantly reducing energy consumption and delivering rapid payback compared to fixed-speed systems. Typical return on investment can range from approximately 1 to 2 years depending on operating conditions.

### LARGO 31-45 FIXED-SPEED

- On average 30% smaller foot-print than most competitors
- Gear drive contributes to high reliability in tough conditions
- Ideal workhorse for compressor rooms with long duty cycle operation

| + TCO* SAVINGS | EVOLUTO 26-45 iPM |
|---|---|
| PERFORMANCE | • Oil-cooled iPM drive train for high performance cooling and best-in-class performance |
| SERVICEABILITY | • Energy savings of up to 45% |
| LIFETIME | • iPM motor equals IE4 standards<br>• Payback within 1-2 years for upgrade from fixed speed to iPM |

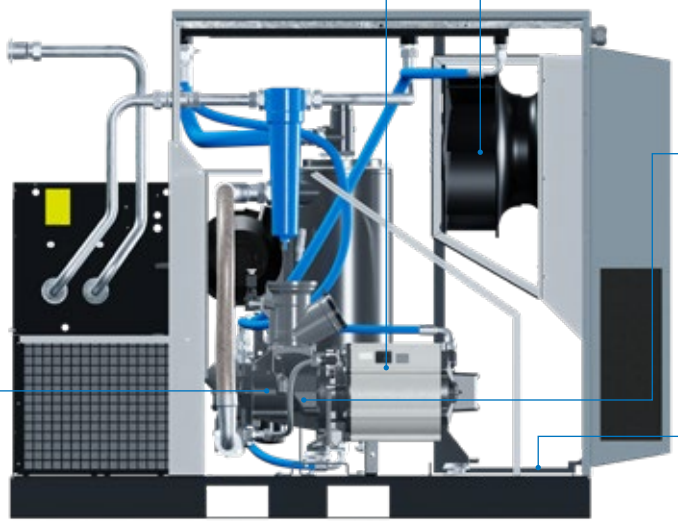
* Total Cost of Ownership.

IN-HOUSE DESIGNED IE4 EFFICIENCY AND CLASS H INTERIOR PERMANENT MAGNET (iPM) MOTOR:

Maintenance-free; includes innovative oil-cooling technology for optimal performance in up to 46°C.

IN-HOUSE DESIGNED COMPRESSION ELEMENT:

Gives you best-in-class Free Air Delivery and Specific Energy Requirement.



RADIAL FAN:

Gives you improved pressure build-up and quiet operation.

DRIVE TRAIN:

IP66-rated for complete protection from dust and moisture.

IP54 ELECTRICAL CUBICLE:

Can withstand up to 60°C and is IP54 protected.

## A RANGE OF OPTIONS

- → INTEGRATED ENERGY RECOVERY
- → IE4 FIXED-SPEED MOTOR
- → 8000-HOUR PREMIUM SYNTHETIC OIL
- → FOOD-GRADE OIL
- → FREEZE PROTECTION
- → WSD & ELECTRONIC WATER DRAIN
- → HEAVY-DUTY PRE-FILTRATION
- → ECO6i

# DESIGNED FOR LONG-TERM PRODUCTIVITY

Combining advanced compression technology, efficient drive systems, intelligent controls and remote connectivity, this range is engineered to deliver dependable compressed air, lower operating costs and maximum productivity throughout its lifetime.
Join our **LARGO 31-45 & EVOLUTO 26-45** range available in fixed-speed, variable-speed iPM configurations, these compressors provide a solution for both constant and fluctuating air demand applications.

# TECHNICAL SPECIFICATIONS

## LARGO 31-45

| Model | Max. working pressure | Reference working pressure | Motor power | | Free Air Delivery @ reference conditions* | | | Noise level ** | Cooling air flor |
|---|---|---|---|---|---|---|---|---|---|
| | bar | bar | kW | HP | m³/h | l/s | cfm | db(A) | m³/h |
| LARGO 31 | 7,5 | 7 | 30 | 40 | 350 | 97,1 | 206 | 66 | 4900 |
| | 8,5 | 8 | | | 321 | 89,3 | 189 | | |
| | 10 | 9,5 | | | 296 | 82,1 | 174 | | |
| | 13 | 12.5 | | | 265 | 73,7 | 156 | | |
| LARGO 37 | 7,5 | 7 | 37 | 50 | 421 | 117 | 248 | 68 | 5000 |
| | 8,5 | 8 | | | 405 | 112,6 | 239 | | |
| | 10 | 9,5 | | | 365 | 101,5 | 215 | | |
| | 13 | 12.5 | | | 320 | 88,9 | 188 | | |
| LARGO 45 | 7,5 | 7 | 45 | 60 | 491 | 136,3 | 289 | 70 | 7950 |
| | 8,5 | 8 | | | 455 | 126 | 268 | | |
| | 10 | 9,5 | | | 419 | 116,4 | 246 | | |
| | 13 | 12.5 | | | 377 | 104,8 | 222 | | |

## EVOLUTO 26-45

| Model | Min working pressure | Max working pressure | Motor power | | Min FAD | | Free Air Delivery @Reference conditions @ reference conditions* | | | | | | Noise level ** | Cooling air flor | Motor efficiency at full load | Compres-sed Air Outlet |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 7 bar | | 7 bar | | 9.5 bar | | 12.5 bar | | | | | |
| | bar | bar | kW | HP | m³/h | l/s | m³/h | l/s | m³/h | l/s | m³/h | l/s | db(A) | m³/s | | Gas |
| EVOLUTO 26 | 4 | 13 | 26 | 30 | 63,36 | 17,6 | 277,92 | 77,2 | 246,6 | 68,5 | 204,12 | 56,7 | 66 | 1,36 | IE4 | 1 |
| EVOLUTO 30 | 4 | 13 | 30 | 40 | 79,92 | 22,2 | 359,28 | 99,8 | 309,24 | 85,9 | 253,44 | 70,4 | 66 | 1,36 | IE4 | 1 |
| EVOLUTO 37 | 4 | 13 | 37 | 50 | 93,96 | 26,1 | 432,72 | 120,2 | 379,8 | 105,5 | 306,36 | 85,1 | 69 | 2,15 | IE4 | 1-1/4 |
| EVOLUTO 45 | 4 | 13 | 45 | 60 | 93,6 | 26 | 496,8 | 138 | 440,28 | 122,3 | 380,52 | 105,7 | 71 | 2,15 | IE4 | 1-1/4 |

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

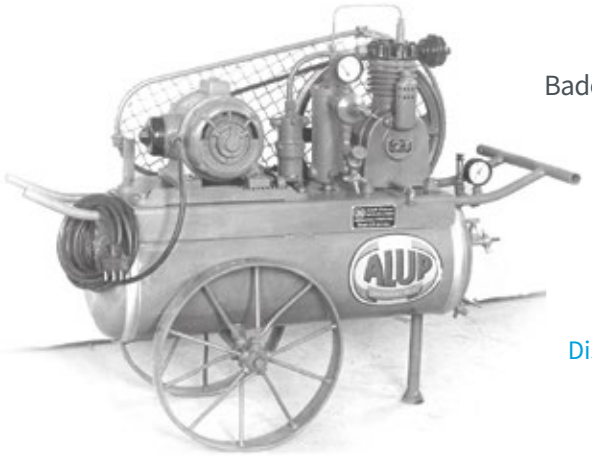
## DIMENSIONS

| | Length (mm) | | Width (mm) | | Height (mm) | | Weight (Kg) | |
|---|---|---|---|---|---|---|---|---|
| | PACK | FF | PACK | FF | PACK | FF | PACK | FF |
| LARGO 31 | 1555 | 2030 | 830 | 830 | 1555 | 1555 | 553 | 663 |
| LARGO 37 | | | | | | | 654 | 764 |
| LARGO 45 | | | | | | | 669 | 787 |
| EVOLUTO 26 | 1544 | 1544 | | | | | 503 | - |
| EVOLUTO 30 | | 2021 | | | | | | 621 |
| EVOLUTO 37 | | | | | | | 537 | 655 |
| EVOLUTO 45 | | | | | | | | |

# 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** Founded in Germany

**1925** First piston compressor

**1980** First rotary screw compressors

**today** Innovative technology

## Contact your local ALUP Kompressoren representative

ORIGINAL PART

### 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.

www.alup.com

ALUP Kompressoren

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