



AERZEN

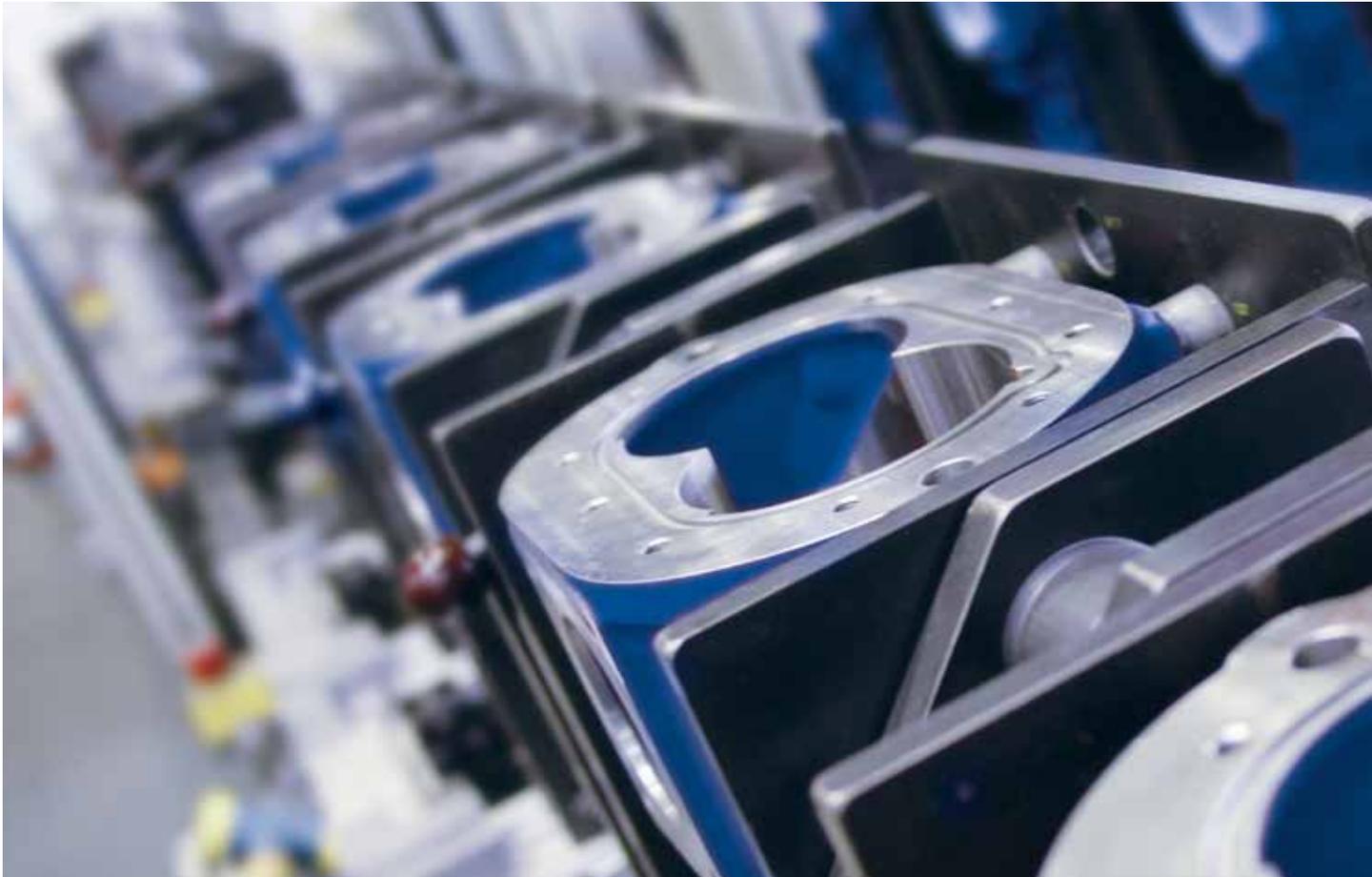
PRODUCT OVERVIEW

Positive displacement blowers, screw compressors, rotary lobe compressors, turbo blowers and rotary piston gas meters



AERZEN

EXPECT THE WORLD. PREMIUM TECHNOLOGIES FROM AERZEN.



Expect Performance.

AERZEN's history is the history of compressor technology. In 1868, we manufactured Europe's first positive displacement blower; in 1911, the first turbo blower; in 1943, the first screw compressor; and, in 2010, the world's first rotary lobe compressor. And today? Today our craft lies in designing these machines to be as efficient as possible – and adapting them to the hundreds of applications that our customers require of us.

What has stayed the same? Even today, in our fourth generation, we have retained our character as a mid-sized family-owned company. That is what inspires our innovation and drive to develop products that enable our customers to get ahead in the global marketplace. Expect a lot. Expect performance!

Classic AERZEN.

What characterises premium technologies today? Is it high performance and service throughout the world? Of course. Energy efficiency? Nowadays this is also a matter of course. At AERZEN, we like to think there is even more to it. Greater creativity, for example, as demonstrated by our countless nationally and internationally awarded patents.

At AERZEN, this creativity is also on display in the less showy aspects of our machines: in their highly compact build; their simple plug & play design; in their exceptionally user-friendly operating concept. Then again, you might take as an example the unusually long intervals our machines can operate between oil changes and servicing – the emphasis here being on quality. Unconditional reliability, an extremely long service life, and ground-breaking energy efficiency – classic AERZEN.



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POSITIVE DISPLACEMENT BLOWERS. DURABLE, LONG-DISTANCE RUNNERS.

AERZEN made Europe's first positive displacement blower. That was in 1868. Today, these stages and assemblies are considered among the most successful compressors of all time. We manufacture advanced product series for a highly diverse range of applications used in all branches of industry. Our machines are high-performance, economical and extremely durable.

Tried, tested, and more innovative than ever.

The roots design paved the way for the development of AERZEN's positive displacement blowers, and it is a good thing that it did: Even now, 150 years later, it remains one of our most successful plans. Today AERZEN twin-shaft positive displacement blowers for oil-free conveyance show greater innovation than ever before. The many developments in construction ensure top ratings when it comes to efficiency. AERZEN patented technology such as integrated pulsation reduction ensure low noise emissions and vibrations. AERZEN blowers are also renowned for their ease of service and long-term reduction in life cycle costs. The list of innovations goes on and on. But what matters most in practical everyday terms? The lasting quality of our blowers. That is what 'Made by AERZEN' stands for.

When reliability counts.

AERZEN quite possibly offers the widest range of products in the field of compression technology that you will find anywhere. Our highly-developed machines are available in a wide range of designs, sizes and special models; designed to convey air, oxygen, neutral, aggressive or toxic gases; for vertical or horizontal flow; to handle negative pressure, positive pressure or vacuum modes. They can be used anywhere in the world where gas needs to be conveyed and compressed, and where reliable availability, energy efficiency and an oil-free supply are deciding factors.





AERZEN positive displacement blowers are advanced series products. They are manufactured using modern CNC-driven specialist technology and are designed for minimal tolerances between components – as well as exceptional efficiency levels. For nothing short of precision. Made by AERZEN.

POSITIVE PRESSURE/NEGATIVE PRESSURE POSITIVE DISPLACEMENT BLOWERS

Positive displacement blowers find their key area of application in the pneumatic transport of bulk goods and waste water treatment. AERZEN offers right-sized solutions in this sector, delivering high-performance blowers in our standard, compact and special classes, right-sized to the most diverse applications and individual customer requirements. Always the best choice. As powerful as they are economical.



Delta Blower G5 package

Belt-driven 3-lobe blower package with a silencer free of absorption material and oil-free classification to class 0. Extremely low sound pressure levels, side-by-side installation and easily adaptable to meet diverse customer specifications.

- Volume flow: 30 to 15,000 m³/h
- Neg. pressure: -500 mbar pos. pressure: 1,000 mbar (g)
- Medium: air, and neutral gases



Delta Blower G5^{plus} package

Energy efficient, compact assembly. Delta Blower G5 includes optimised intake filter silencer and base support for reduced pressure loss. Resource saving cooling concept. Available in 4 sizes.

- Volume flow: 440 to 3,600 m³/h
- Neg. pressure: -500 mbar pos. pressure: 1,000 mbar (g)
- Medium: air, and neutral gases



Blower stage GM 3S ... 1080 L

Sturdy 3-lobe blower stage for plant engineering. Suitable for a wide range of applications. Designed to be belt-driven. Low pulsation levels and reduced piping noise. 22 standard sizes.

- Volume flow: 30 to 65,000 m³/h
- Neg. pressure: -500 mbar pos. pressure: 1,000 mbar (g)
- Medium: air, and neutral, toxic, flammable, explosive, corrosive or mixed gases



Bulk goods vehicle GM 13.5..13.f7-1 pos. pressure blower stage

Robust 2- and 3-lobe blower stage for installation in tankers and silo trucks with extended pressure differentials of up to 1.2 bar. Conveyance in two directions possible using either horizontal or vertical flow. Proven technology, oil-free.

- Volume flow: 600 to 2,250 m³/h
- Positive pressure: 1,200 mbar (g)
- Medium: air and neutral gases



Alpha Blower package

2-/3-lobe blower package with direct or belt drive in modular system. 104 model variants. Low pulsation and reduced piping noise. Oil system fully integrated in the stage. Integrated sound reduction measures.

- Volume flow: 9,600 to 77,000 m³/h
- Neg. pressure: -800 mbar (g) pos. pressure: 1,000 mbar (g)
- Medium: air and neutral gases



Alpha Blower stage

104 model variants with low pulsation, reduced piping noise, integrated sound reduction measures and oil system fully integrated in the stage. 2-/3-lobe blower package with direct or belt drive in modular system.

- Volume flow: 9,600 to 77,000 m³/h
- Neg. pressure: -800 mbar (g) pos. pressure: 1,000 mbar (g)
- Medium: air and neutral gases



GM ... Sm/Lm negative pressure package with pre-inlet

Proven 3-lobe blower package with or without acoustic hood. Available with belt or direct drive. Designed to cope with negative pressure up to 80% vacuum, extremely sturdy and oil-free.

- Volume flow: 60 to 50,000 m³/h
- Negative pressure: -800 mbar
- Medium: air and neutral gases



GMa/b/c ... m negative pressure stage with pre-inlet cooling

Proven 2-lobe blower technology for plant engineering for forced conveyance at negative pressure up to 80% vacuum. Oil-free and extremely sturdy. Belt or direct drive version.

- Volume flow: 60 to 50,000 m³/h
- Negative pressure: -800 mbar
- Medium: air and neutral gases

VACUUM PUMPS (BLOWERS)

AERZEN provides multiple solutions attuned to the particular requirements of industrial vacuum and high vacuum technology: special blower series with hermetically sealed motor (type HM) or energy-saving IE-3 motors (type HV). Vacuum-tight and air-cooled. Available in a wide range of models for the conveyance of neutral or aggressive gases, with or without pre-inlet. Suitable for a range of applications from foil and glass coating to the hydrogen extraction to use in clean-room conditions.



GM ... HM high-vacuum stage

Vacuum blower with hermetically sealed motor for plant engineering, also suitable for use under clean room conditions. With 10 sizes, it is the biggest series available with the highest delta p in the vacuum industry.

- Volume flow: 406 to 15,570 m³/h
- Pressure: 10⁻⁵ mbar abs. to 200 mbar abs.
- Medium: air, oxygen, and neutral, toxic, flammable, explosive, corrosive or mixed gases



GMa/GMb/GMc ... HV fine vacuum stage

Vacuum-tight stage for plant engineering with ATEX certification for zone 0. Direction of flow variable in either vertical or horizontal directions. Delta p up to 200 mbar possible. With 19 different performance classes available, it constitutes the biggest series on the market.

- Volume flow: 180 to 97,000 m³/h
- Pressure: 10⁻³ mbar abs. to 200 mbar abs.
- Medium: air, oxygen, and neutral, toxic, flammable, explosive, corrosive or mixed gases



GMa/GMb/GMc ... mHV low-vacuum stage with pre-inlet

Vacuum-tight blower stage for plant engineering. High pressure ratio thanks to pre-inlet cooling. With 11 different performance classes available, it constitutes the largest series on the market.

- Volume flow: 250 to 61,000 m³/h
- Pressure: 10 mbar abs. to 300 mbar abs.
- Medium: air, oxygen, and neutral, toxic, flammable, explosive, corrosive or mixed gases

PROCESS GAS BLOWERS

AERZEN process gas blowers are high-performance machines developed for the oil-free conveyance and compression of industrial gases, which can be both toxic and aggressive. Available in a wide variety of materials and conveying chamber sealings.



GR positive pressure blower stage

Versatile blower stage (single and two-stage) for plant engineering for vertical and oil-free conveyance. Direct drive, with gear box or belt drive. Optionally available with liquid injection for gas cooling or purification, as well as with special modifications and materials. 12 sizes available for just about every industrial or mixed gas. Delta p up to 1,500 mbar possible.

- Volume flow: 100 to 50,000 m³/h
- Nominal housing pressure: PN 6
- Medium: air, oxygen, and neutral, toxic, flammable, explosive, corrosive or mixed gases



GQ positive pressure blower stage

Direct drive blower stage (single and two-stage) for plant engineering for the conveyance of process and cooling gases. Direction of flow is horizontal. Recirculating oil lubrication system. Suitable for continuous water injection for cooling and purification. Available in 6 sizes for positive pressure ranges up to PN 6. Delta p up to 1,500 mbar possible.

- Volume flow: 15,000 to 100,000 m³/h
- Nominal housing pressure: PN 2.5
- Medium: process, cooling and sealing gases



GM ... dz high-pressure blower positive pressure stage

Direct drive blower stage (single or two-stage) for oil-free conveyance. Separate recirculating lubrication system. Available in stainless steel or as a special acetylene booster as per the TRAC standard. Delta p up to 2,000 mbar possible.

- Volume flow: 60 to 6,000 m³/h
- Nominal housing pressure: PN 25
- Medium: air and neutral gases

BIOGAS BLOWERS

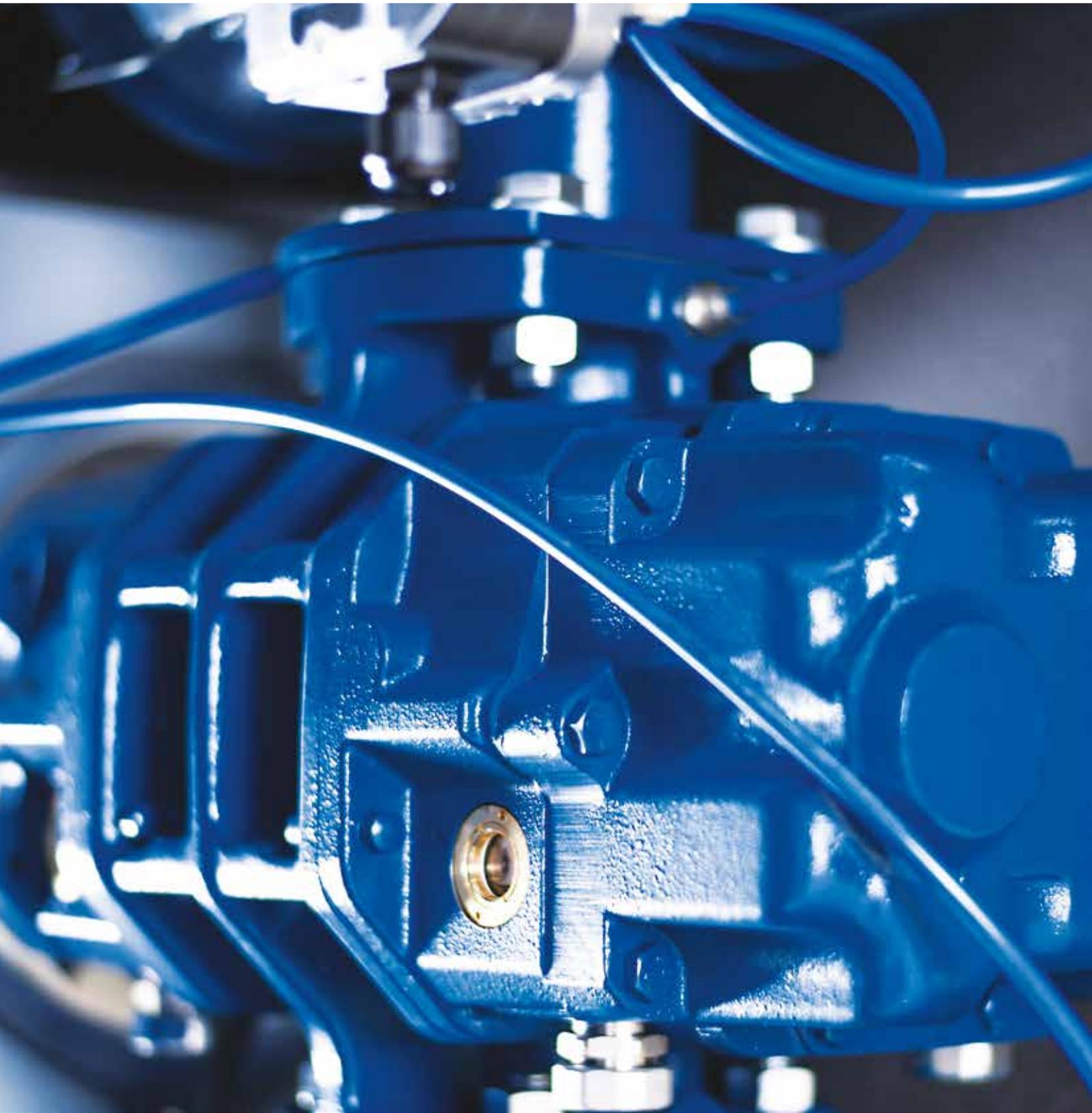
Specially developed for use with biogas, AERZEN GM series biogas blowers ensure maximum performance and efficiency. Available in a range of different sizes. Moreover, they operate in full compliance with ATEX directive 2014/34/EU, the Standard for Compressors and Vacuum Pumps (EN 1012-3) and DVGW regulations, and can be used in explosion protection zones I and II.



Delta Blower GM 35 ... 50L biogas package

Belt-driven, 3-lobe compact assembly. Blower stage and package available in special materials and with numerous modifications possible. ATEX certified. A wide range of accessories available, such as overflow regulator and isolating equipment.

- Volume flow: 30 to 2,700 m³/h
- Positive pressure: 1,000 mbar (g)
- Medium: landfill gas, biogas, natural gas, town gas



Biogas aids considerably in achieving nationally and internationally targeted reductions in CO₂. AERZEN offers solutions for many applications within this sector.

AERZEN TURBO BLOWERS.

COMPACT POWER IN AERATION TANKS.

AERZEN turbo blowers. Over the years we have perfected the technical excellence of our assemblies, acquiring an expertise that has set the global standard in the process. This is reflected in improved energy efficiency, low life cycle costs and specially developed core components. It is an expertise present in every detail of AERZEN's continuous flow machines.



The AERZEN turbo impeller. Individually designed for every performance class – peerless efficiency.

Making waves.

AERZEN turbo blowers: developed to cope with large intake volume flow rates but speed-controlled, 100% oil-free, and designed for use in the most demanding areas of industrial and municipal wastewater treatment and many other fields of application. We have worked tirelessly to advance this technology since 1911, with each generation of units representing an innovative leap forward. Our newest series combines an outstanding energy balance with a host of unique details. The design of the stainless steel impellers, single air gap permanent magnet motors, actual airflow measurement – all are concepts that have made waves in the world of compressors.

Not unlike AERZEN's Performance³; a compound system comprising the Aerzen Turbo, the Delta Blower positive displacement blower and the Delta Hybrid rotary lobe compressor that is probably the highest performing portfolio of solutions for the fluctuating demands of biological waste water treatment plants on the market today: We are referring to the compound system comprising the Aerzen Turbo, the Delta Blower positive displacement blower and the Delta Hybrid rotary lobe compressor. This combination of technologies guarantees a singular performance. With maximum energy savings and the best possible control ranges it's possible to achieve a ROI in just 2 years, depending upon the conditions in the plant.



Aerzen Turbo AT G5^{plus}

Highly compact turbo package for small and mean volume flows. Lowest maintenance and sound emission, no vibrations and highest energy efficiency. Easiest installation; plug & play solution with all components integrated.

- Volume flow: 300 to 8,400 m³/h
- Positive pressure: 1,000 mbar (g)
- Medium: air and neutral gases



Aerzen Turbo AT G5

Highly compact turbo package for mean and high volume flows. Lowest maintenance and sound emission, no vibrations and highest energy efficiency. Easiest installation; plug & play solution with all components integrated.

- Volume flow: 3,600 to 16,200 m³/h
- Positive pressure: 1,000 mbar (g)
- Medium: air and neutral gases

SCREW COMPRESSORS. VERSATILE ACES

Unrivalled versatility. These two words describe in a nutshell exactly what makes AERZEN screw compressors so special; the largest range of models, the highest number of possible modifications and the widest range of accessories. But these stages and series have a lot more going for them, not least the guarantee of a global market leader that has continuously worked to redesign, optimise and perfect its compressors since 1943.

Freeing up potential.

Screw compressors are twin-shaft machines that work on the positive displacement principle with internal compression, or are so-called 'compulsive conveyors'. AERZEN screw compressors are no exception. What makes AERZEN screw compressors unique however, is that their reliability, ease of maintenance, user-friendliness, flexibility and energy efficiency has been elevated to a matter of principle. The result is a set of unique design features. Take the efficiency coefficients for example, such as the AERZEN 3+4 VML profile or the 4+6 VM profile. Compared to standard compressors they deliver considerable energy savings. And what is the ultimate in compressor technology? Look no farther than the new AERZEN E-compressors. With an increase in efficiency of around 6%, they free up even more valuable potential.

Demonstrating their versatility.

For decades, leading packagers and industrial users have insisted upon using AERZEN compressor stages and packages. Why? Because their exceptional flexibility makes these packages the ideal solution for every application. Originally designed for compressing air, nitrogen and neutral gases, these versatile aces have also shown themselves to be ideal for use with special gases, in vacuum operation and in inlet pressure applications. Direct and belt-driven, dry running and classified oil-free to class 0 or with oil injection. Let's put it this way: AERZEN has the right compressor for every application.





Special rotor profiles are characteristic of AERZEN's screw compressors; and ensure significantly better performance in both negative and positive pressure operation.

OIL-FREE SCREW COMPRESSORS

There are effectively no limits to potential applications for AERZEN screw compressors. They can serve to create pressure for the pneumatic transport of powders, bulk goods or ash; they aerate sewage tanks, keep lakes and harbours clear of ice, supply oxidising air for power plants or start jets for aircraft turbines;



Delta Screw belt-driven compressor package

Highly efficient belt-driven compressor package (single-stage). Available in a pre-inlet version for high negative pressure of up to -850 mbar. Also suitable for suction/pressurised operation. Classified oil-free to class 0. Extremely resilient, durable and low-maintenance.

- Volume flow: 120 to 2,650 m³/h
- Neg. pressure: -850 mbar pos. pressure: 3,500 bar (g)
- Medium: air, and neutral, toxic, flammable, explosive or corrosive or mixed gases



VM/VML compressor stage

Belt-driven compressor stage which can be used anywhere. Classified oil-free to class 0, energy efficient and compact. A wide range of models available in 7 sizes.

- Volume flow: 120 to 2,650 m³/h
- Neg. pressure: -850 mbar pos. pressure 3,500 mbar (g)
- Medium: air, and neutral, toxic, flammable, explosive, corrosive or mixed gases



Delta Screw direct-driven compressor package

Highly efficient direct-driven compressor (E-Compressor) package (single-stage). Low maintenance costs. Extremely resilient and easily adapted for the most diverse range of applications.

- Volume flow: 350 to 15,000 m³/h
- Neg. pressure: -850 mbar pos. pressure: 3,500 bar (g)
- Medium: air, and neutral, toxic, flammable, explosive, corrosive or mixed gases



VM/VML compressor stage

Compressor stage (single-stage) that can be used anywhere. Low-maintenance and extremely versatile for the most diverse range of applications. A wide range of models available in 11 sizes

- Volume flow: 350 to 15,000 m³/h
- Neg. pressure: -850 mbar pos. pressure: 3,500 mbar (g)
- Medium: air, and neutral, toxic, flammable, explosive, corrosive or mixed gases

OIL-INJECTED AND OIL-FREE COMPRESSORS

Some have been developed for special applications in the refrigeration and shipping industries, others for extremely sensitive processes which require 100% oil-free compressed air. Wherever low investment and operating costs are as important as high levels of reliability and efficiency, AERZEN oil injected screw compressors are the best bet.



VMY compressor package for refrigeration technology and process gas

Reliable compressor package with oil injection. Variable volume control by means of hydraulically operated slide valves (gate control). API 619 version possible. Bespoke solutions and modifications. Low operating and maintenance costs.

- Volume flow: 300 to 9,500 m³/h
- Positive pressure: 25 bar (g)
- Medium: neutral and flammable gases, mixed or process gases, coolants



VMY compressor stage for refrigeration technology

Reliable compressor stage with oil-injection for plant engineering. Variable volume control by means of hydraulically operated slide valves (gate control). API 619 version possible. Low operating and maintenance costs.

- Volume flow: 300 to 9,500 m³/h
- Positive pressure: 25 bar (g)
- Medium: coolants



VMX compressed-air stage with oil-injection

Versatile positive pressure stage (single-stage). Belt-driven, directly coupled or with integrated gear box. Highly energy efficient, robust, durable and low-maintenance. Available in 10 performance classes up to a max. 355 kW.

- Volume flow: 69 to 3,180 m³/h
- Positive pressure: 13 bar (g)
- Medium: air and neutral gases



Compressed-air screw compressor - two-stage, oil-free

Compressor package (two-stage) with direct drive. Right-sized solution for special applications which exactly meet the requirements and stipulations of the customers. Driving power 90 – 1,000 kW.

- Volume flow: 600 to 8,000 m³/h
- Positive pressure: 5 - 10 bar (g)
- Medium: air, nitrogen and argon (inert gases)

PROCESS GAS COMPRESSOR

Specially designed and certified for chemical, petrochemical, raw material and energy recovery plants, as well as many other areas of process technology. For single or multi-stage configurations. Depending upon requirements, AERZEN process gas screw compressors meet all the specifications of a range of industrial sectors and classification bodies.



VR positive pressure package for process gas

Compressor package (single or multi-stage) for the compression of process gases (except O₂ and Cl). Oil-free compression. Variable drive types: direct, with flanged or separate spur gear. Design to meet international standards such as APIs or customer specifications.

- Volume flow: 650 to 120,000 m³/h
- Neg. pressure: -900 mbar (g)/ pos. pressure: 52 bar (g)
- Medium: air, neutral, toxic, flammable, corrosive and contaminated gases or mixed gases



VMY positive pressure package for process gas

Reliable compressor package with oil injection. Ideal for gases with a low molecular weight, high compression ratio or gases whose composition fluctuates. Variable volume control with hydraulically operated slide valves. Design according to API 619 possible. Individually right-sized solutions and modifications.

- Volume flow: 300 to 9,500 m³/h
- Positive pressure: 25 bar (g)
- Medium: coolants, neutral and flammable gases, mixed or process gases

BIOGAS COMPRESSORS

Biogas applications make particular demands on compressor technology. Whether it is producing biomethane, feeding into kilometre-long supply networks or creating inlet pressure for combined heat and power plants, AERZEN biogas compressors are up to the job. Reliable in 24-hour operation and consistently conforming to all ATEX or DVGW regulations.



VMX biogas package with oil injection

Reliable, direct-driven compressor package with oil injection. Extremely sturdy, durable and energy efficient. Volume flow control by controlling rotating speed and bypass. 5 sizes.

- Volume flow: 100 to 3,080 m³/h
- Positive pressure: 13 bar (g)
- Medium: biogas, biomethane, process gases such as CH mixed gas



VMY biogas package with oil injection

Reliable compressor package with oil injection. Variable volume control by means of hydraulically operated slide valves (gate control). 6 sizes.

- Volume flow: 100 to 9,500 m³/h
- Positive pressure: 25 bar (g)
- Medium: biogas, biomethane, process gases such as CH mixed gas



Oil-free biogas package C

Durable compressor package (single-stage) with direct drive, oil-free conveyance. Unique versatility of application. High-quality industrial standard. Sturdy, durable and low-maintenance. A comprehensive range of accessories and individual customer-specific modifications possible. 3 sizes.

- Volume flow: 150 to 1,900 m³/h
- Positive pressure: 3,500 mbar (g)
- Medium: biogas, biomethane

THE BEST OF BOTH WORLDS. ROTARY LOBE COMPRESSOR DELTA HYBRID.

One of the most innovative solutions in compressor technology today, and far and away one of the most efficient machines in the vast 25 to 100% control range. Delta Hybrid has long been the only assembly in the world to bring together the capabilities of blower and compressor technology into one single system, opening up new possibilities for creating positive and negative pressure and savings of up to 15%.



With seven patents or patent applications pending, Delta Hybrid is one of the most innovative solutions in modern compressor technology, and far and away one of the most efficient machines in the vast 25 to 100% control range.

Two profiles. One assembly.

AERZEN's latest generation technology introduces a new principle to compression, namely the successful synthesis of positive displacement blower and screw compressor technology in one assembly. The innovative Delta Hybrid rotary lobe compressor uses two different rotor profiles. A 3+3 blower profile right-sized for low pressure differentials of up to 800 mbar, and a 3+4 compressor profile designed for higher pressures of up to 1,500 mbar. This enables the Delta Hybrid to close the gap in the existing range of machines. It also offers a performance range that will meet the most diverse process requirements, with energy savings of up to 15% compared to standard compressors.

Higher temperatures. Improved safety.

The Delta Hybrid rotary lobe compressors can be used for an extremely wide range of key industrial applications. Economic as a stand-alone and highly efficient in compound machines, the assembly can be used just about anywhere, including areas with very high ambient temperatures, or for applications with extreme intake temperatures. Today, the Delta Hybrid enables final temperatures of 160°C to 230°C; a vital prerequisite for high levels of operational safety in all processes.



Delta Hybrid package S/L/H

Highly economical rotary lobe compressor package with belt drive. Extended pressure range. Classified oil-free to class 0. Silencer free of absorption material, low sound pressure levels. Reduced maintenance costs and lower energy consumption for a sustainable low TCO. Extremely reliable and durable.

- Volume flow: 110 to 9,000 m³/h
- Pos. pressure: 1,500 mbar (g)
- Medium: air and neutral gases



Delta Hybrid rotary lobe compressor stage S/L/H/E

Highly economical rotary lobe compressor stage for belt drive. Reduced maintenance costs and lower energy consumption for a sustainable low TCO. Extremely reliable and durable. Extended pressure ranges.

- Volume flow: 110 to 9,000 m³/h
- Neg. pressure: -700 mbar/ pos. pressure: 1,500 mbar (g)
- Medium: air and neutral gases



Delta Hybrid negative pressure package E

Highly economical rotary lobe compressor package with belt drive and internal compression of up to 70% vacuum. Classified oil-free to class 0. Silencer free of absorption material, low sound pressure levels. Reduced maintenance costs and lower energy consumption for a sustainably low TCO.

- Volume flow: 110 to 9,000 m³/h
- Negative pressure: -700 mbar
- Medium: air and neutral gases



Delta Hybrid rotary lobe compressor stage D98V

Rotary lobe compressor stage with pre-inlet and internal compression. Reaches a vacuum of up to 95% in negative pressure operation. Classified oil-free to class 0. Silencer free of absorption material, low sound pressure levels. Reduced maintenance costs and lower energy consumption for a sustainably low TCO.

- Volume flow: up to 5,400 m³/h
- Neg. pressure: -950 mbar pos. pressure: 1,500 mbar (g)
- Medium: air and neutral gases

ROTARY PISTON GAS METERS.

PRECISION TECHNOLOGY FOR THE ENERGY SUPPLY INDUSTRY.

AERZEN ranks among the world's oldest and most established manufacturers of rotary piston gas meters. The current generation from the rotary lobe machines expert is no exception; a series of high precision meters for the energy supply industry, analogue as well as digital. Designed in accordance with EU regulations for use in the European market. Made by AERZEN in compliance with the quality assurance system DIN ISO 9001 and the Pressure Equipment Directive DGRL 2014/68/EU.



Intelligently designed and with versatile equipment options, AERZEN rotary piston gas meters can be easily adapted to meet diverse customer requirements.

Precision for every medium.

AERZEN rotary piston gas meters can measure all non-aggressive gases as per DVGW Worksheet G 260, including natural gas, town gas, coke oven gas, refinery gas, propane, butane, liquid gas and air mixtures, methane, ethylene, hydrogen and other gases. Gas meters are equipped for horizontal and vertical flow directions. To this end, they are fitted with either a special double-roller counter or a digital counter. This provides a decisive advantage, as it means that the direction of flow can be adjusted without necessitating any changes to the counter, and without requiring supervised calibration. This not only reduces storage requirements, but also lowers additional costs for short-term adjustments. Switching to the required direction of flow on site is easy and requires no tools.

Tested & certified.

AERZEN rotary piston gas meters meet the key requirements of the European standard for gas meters EN 12480. At the same time, the statutory regulations that AERZEN complies with in designing, testing and approving its products also apply (Weights and Measures Act, calibration regulations). All AERZEN gas meters comply with the design requirements specified in DVGW Worksheet G 492/II and with DIN 30690 T 1, DIN 3230 T 5 and the Pressure Equipment Directive DGRL 2014/68/EU, and are subjected to the pressure and leakage tests prescribed therein. The housing materials meet the requirements of DIN EN 13445-2 with PED-QM certification with acceptance test certificate EN 10204/3.1.B.

GAS METERS AND VOLUME CONVERTERS



Rotary piston gas meter Za/Zc/Ze/Zf

With its Za/Zc/Ze/Zf series gas meters, AERZEN provides reliable precision measurement technology for the energy supply industry in the largest series available on the market. Developed for measuring gaseous media in the extended range 1:160. Extremely low-maintenance, with an oil-change interval of 16 years. And approved to MID (European Measuring Instruments Directive 2014/32/EU). AERZEN gas meters are available with an analogue counter or with an integrated smart encoder. This digital counter offers a range of benefits, such as the elimination of measuring errors and the precise calculation of gas consumption, and can be retrofitted economically at any time.

- Volume flow: 0.6 to 6,500 m³/h
- Positive pressure: 16 bar (g)
- Medium: non-aggressive gases and natural gas, town gas, coke oven gas, refinery gas, propane, butane, liquid gas and air mixtures, methane, ethylene, hydrogen and other gases



Compact electronic volume converter

The UNIGAS PTZ Compact volume converter converts gas volumes measured by a gas meter in an operational state V_b into cubic metres of dry gas in a normal state of $P_n = 1.01325$ bar and $T_n = 273.15$ K. And it does so to an accuracy level of $\pm 0.5\%$ to the measured value. The actual volume in its normal state is shown on the LCD display. What's more, the converter provides access to a wide range of other parameters at the touch of a button. Suitable only for customary natural gas.

- Pressure ranges: $P_{abs} = 0.9$ bar to 6.0 bar or $P_{abs} = 4.0$ bar to 10.0 bar
- Gas temperatures: -10°C to 40°C
- Ambient temperatures: -10°C to 40°C
- Storage temperatures: -20°C to 50°C

COUNTLESS PROCESSES. NO COMPROMISE. FIELDS OF APPLICATION.

AERZEN offers its customers compressor technology that has been perfectly designed right down to the last detail. It is not a stretch to say that we have something for every application, for every region on our planet. We give you our word. Because if it is not already included within our wide range of standard models, modifications and accessories available to date, then we will build it for you, as a special solution.

Compression under any conditions.

Compressed gases are used in every possible condition imaginable – accordingly our technologies are suitable for use in every condition imaginable. Whatever the model or specification, whether indoor or out, onshore or offshore, stand-alone or as part of a compound system, they work in any ATEX zone or temperature zone in the world – even under the most extreme conditions. As reliable at +60°C as they are at -40°C. As safe in lulls as in wind speeds of up to 150 km/h; in the desert, the Arctic and in earthquake zones; and for any other static or mobile application. Any exceptions? None to date. Why not give us a challenge?

Understanding applications.

Only compressor technology that is precisely tailored to the application is truly economical. You might call it right-sized. To achieve that you have to know the processes – something that we pride ourselves on at AERZEN. That alone makes it important to us to maintain close contact with our customers, and explains why it is so important to us that we fully understand your applications in detail. Our exceptional history helps us in that respect: over the past 150 years we have configured machines according to every possible specification, dealing with hundreds of thousands of projects of every possible size across every continent. This wealth of experience makes us a unique and valuable consultant for any questions regarding potential applications.

Sectors

- Chemical and petrochemical
- Cement industry
- Foodstuffs and luxury food industry
- Power plant technology
- Glass industry
- Paper industry
- Plastics industry
- Steel and iron industry
- Textiles industry
- Pharmaceutical and cosmetics industry
- Medical technology
- Mining and metallurgy
- Electronics industry, solar power
- Municipal or industrially operated waste water treatment plants
- Oil and gas industry
- Process gas industry
- Biogas industry
- Energy suppliers

and more





Application know-how – an AERZEN specialty. That's why compressor solutions from AERZEN are always right-sized.

ANYTHING BUT ORDINARY. THE WORLD OF AERZEN SERVICES.

AERZEN machines are legendary for their durability. Why is service necessary at all, then? For us, it's about more than availability and original OEM parts. AERZEN services safeguard your investments and productivity, and ensure that you stay ahead of the competition. From anywhere on earth.

Benefit from AERZEN's OEM competence, anytime, anywhere



AERZEN on-site service.

Our service teams work wherever our machines are, anywhere in the world, onshore or offshore, and frequently under extreme conditions. How do we manage? Because we are never far away. AERZEN has developed a wide network of service support centres and decentralised parts depots around the globe. At these centres, you will find over 200 well-trained service technicians ready to help, whenever and wherever you need them.

Equipment rental and other services.

The AERZEN service world has plenty to offer to its customers. For example, we offer custom designed service kits, including replacement stages, machine diagnosis, acoustic optimisation. One of our most important services is the AERZEN Rental Division, which has a large stock of rental machines: AERZEN blowers, turbos and compressors in a wide range of performance classes, for all standard pressure ranges, for immediate use and delivered on request – turnkey ready. What does that mean for our customers? Even in the event of an unanticipated need, you will be well equipped.



Contact worldwide

AERZEN's team of 2,000 employees is active on every continent. With six sales offices in Germany alone, we are always nearby. And with more than 45 subsidiary companies spread across 100 different countries, we are never far away should you need us. Call us at:

+49 5154 81-0

Service Hotline Germany

Our German service centre is available for customers, applications and the maritime industry in Germany. We look forward to your call:

0700 49318551

Customer Net

Looking to learn more about our company and about AERZEN's industry-leading compressor technology? It's easy: just visit our Customer Net or our home page. Everything you need to know in one location:

www.aerzen.com



AERZEN. Compression - the key to our success.

AERZEN was founded in 1864 as Aerzener Maschinenfabrik. In 1868, we built Europe's first positive displacement blower. The first Turbo blowers followed in 1911, the first screw compressors in 1943, and in 2010 the world's first rotary lobe compressor package. Innovations "made by AERZEN" keep driving forward the development of compressor technology. Today, AERZEN is among the world's longest established and most significant manufacturers of positive displacement blowers, rotary lobe compressors, rotary piston gas meters, screw compressors, and Turbo blowers. AERZEN is among the undisputed market leaders in many areas of application.

At our 45 subsidiaries around the world, over 2,000 experienced employees are working hard to shape the future of compression technology. Their technological expertise, our international network of experts, and the constant feedback we get from our customers provide the basis for our success. AERZEN products and services set the standard in terms of reliability, stability of value and efficiency. Go ahead - challenge us!

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