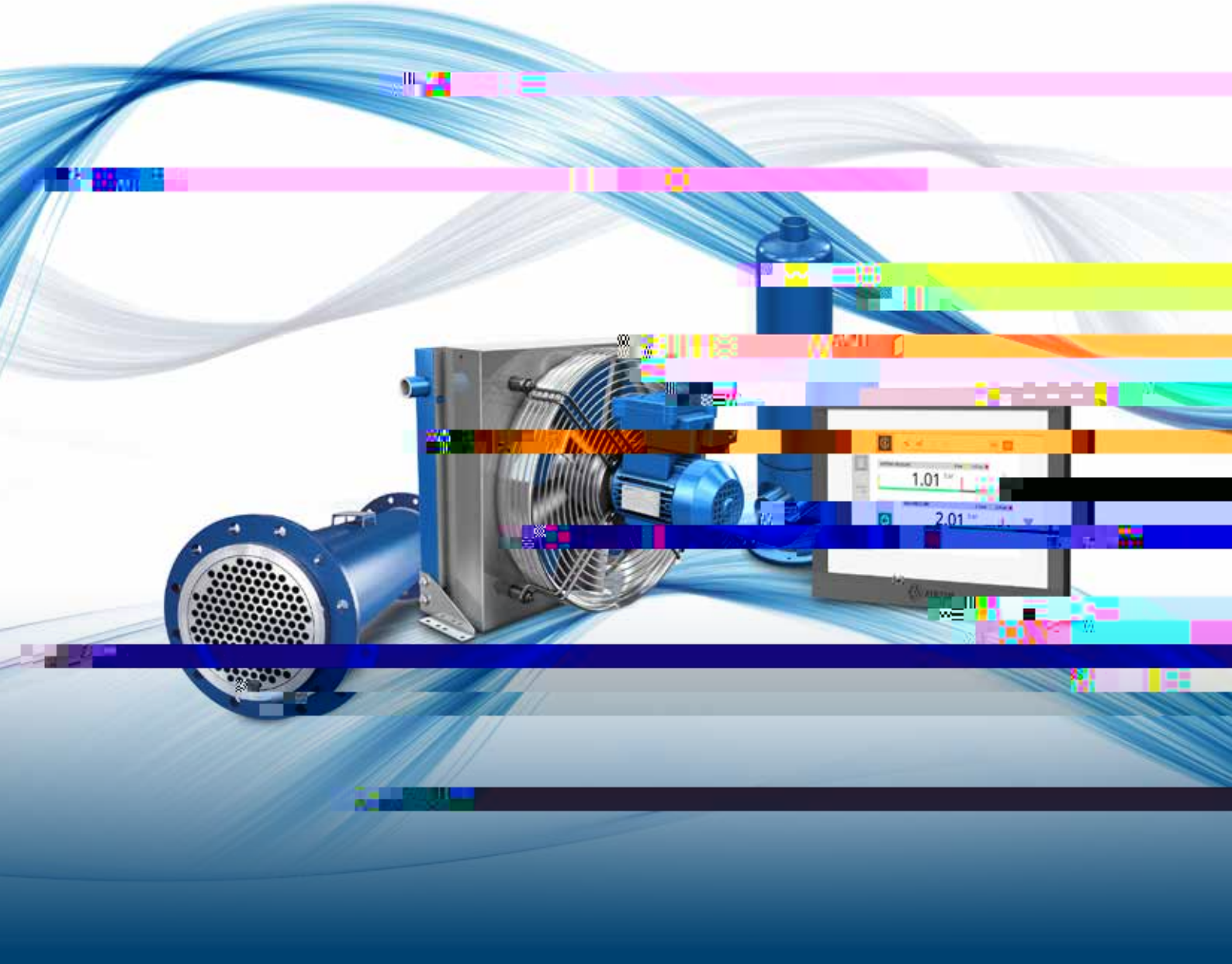


Innovative, versatile, tailor-made. Accessories from



AERZEN
EXPECT PERFORMANCE

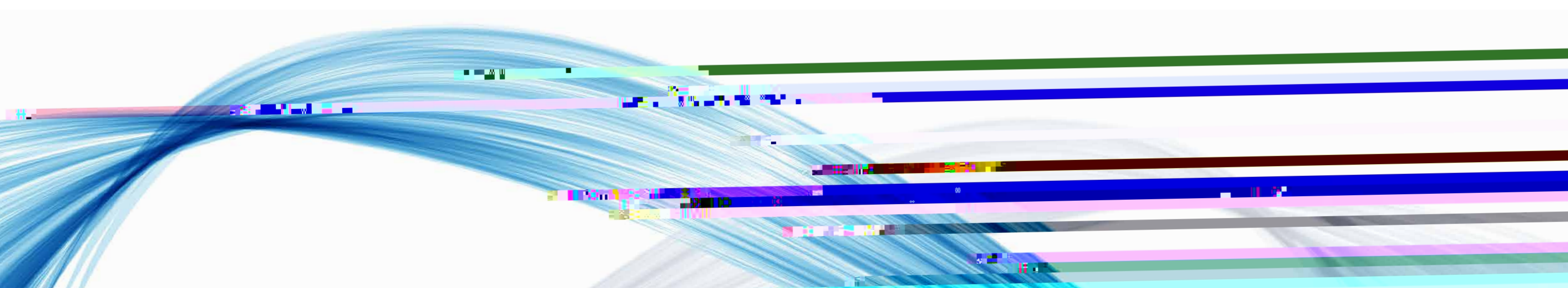
The best for every application

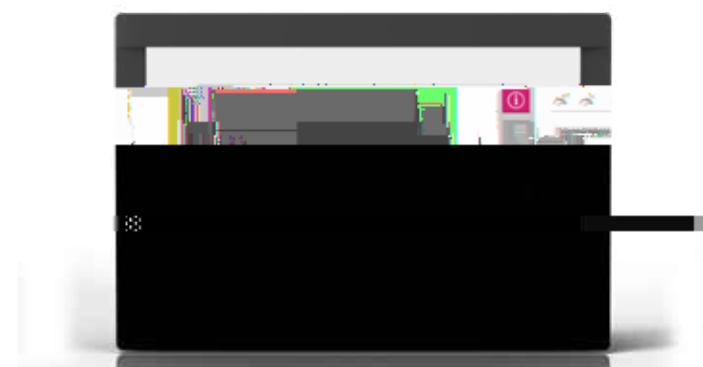
Unique. Each solution from AERZEN

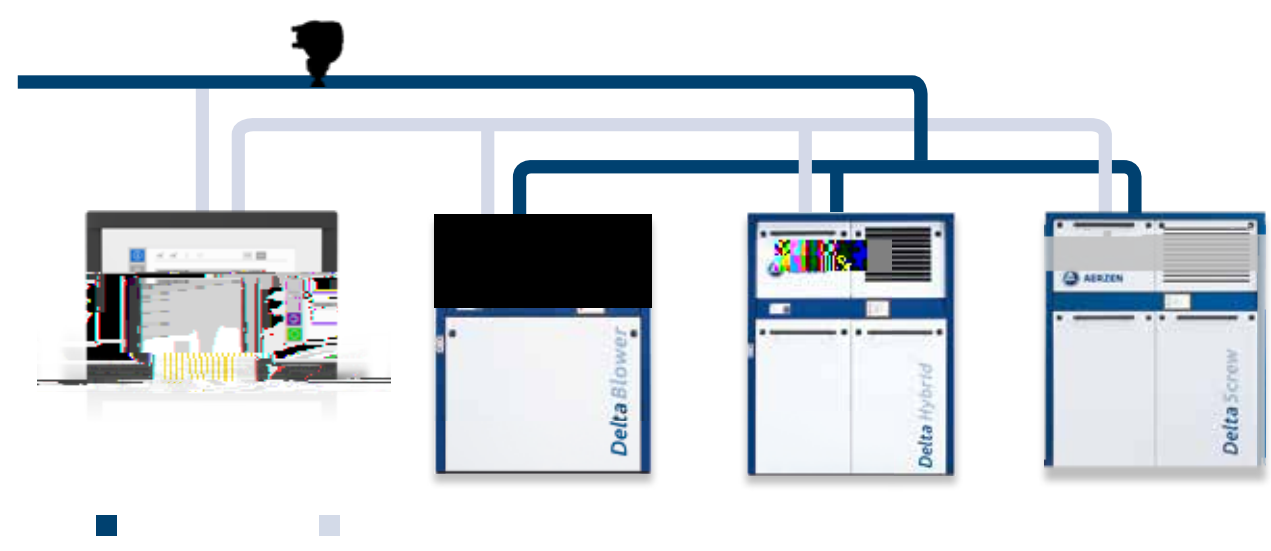
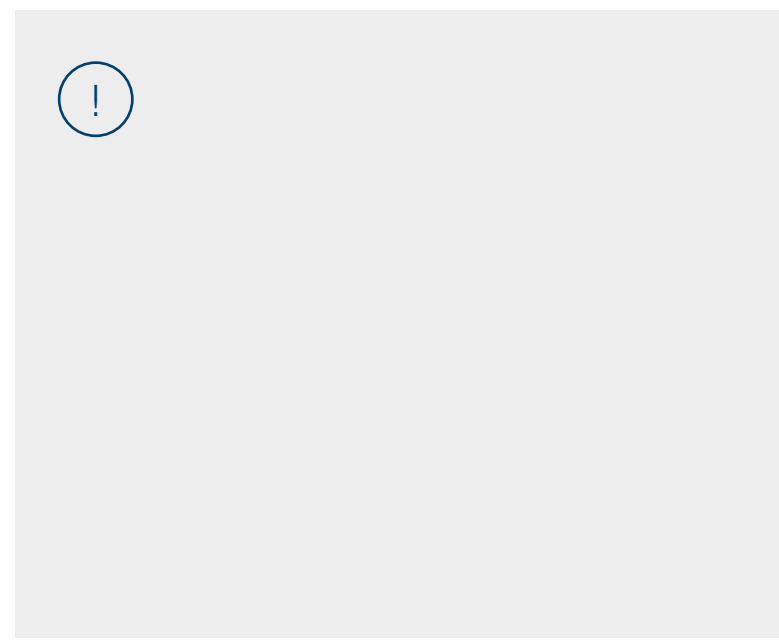
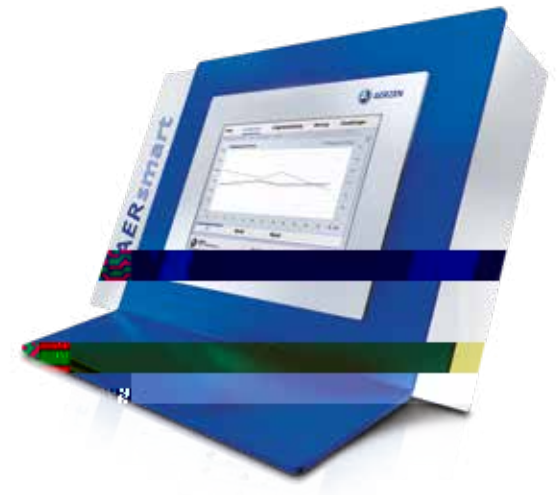
A compressor is a compressor. And yet each one is different. Because each requirement is individual. Every site, every company, every process has its own characteristics. We know this, and have been asking ourselves the question of application for 150 years. Again and again. What makes our technologies the best solutions for your application? You can find the answer here. Page by page.

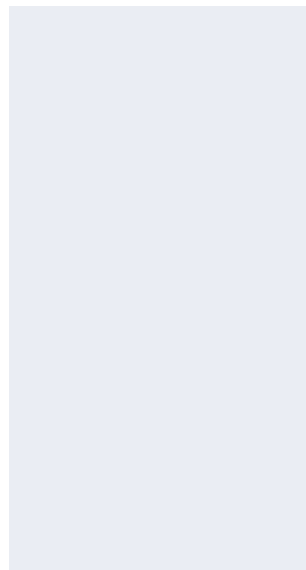
Only solutions that are perfectly matched to their respective applications are truly efficient, powerful and safe. In every conceivable environmental condition. Optimal equipment and accessory options are therefore now more important than ever. Because we know this, we have developed a close skills network with leading expert manufacturers. This provides a guarantee that every accessory is tailor-made and tailored to

AERZEN products. And is exactly what makes every AERZEN machine so unique. Regardless of whether you choose a Delta Blower, Delta Hybrid or Delta Screw.





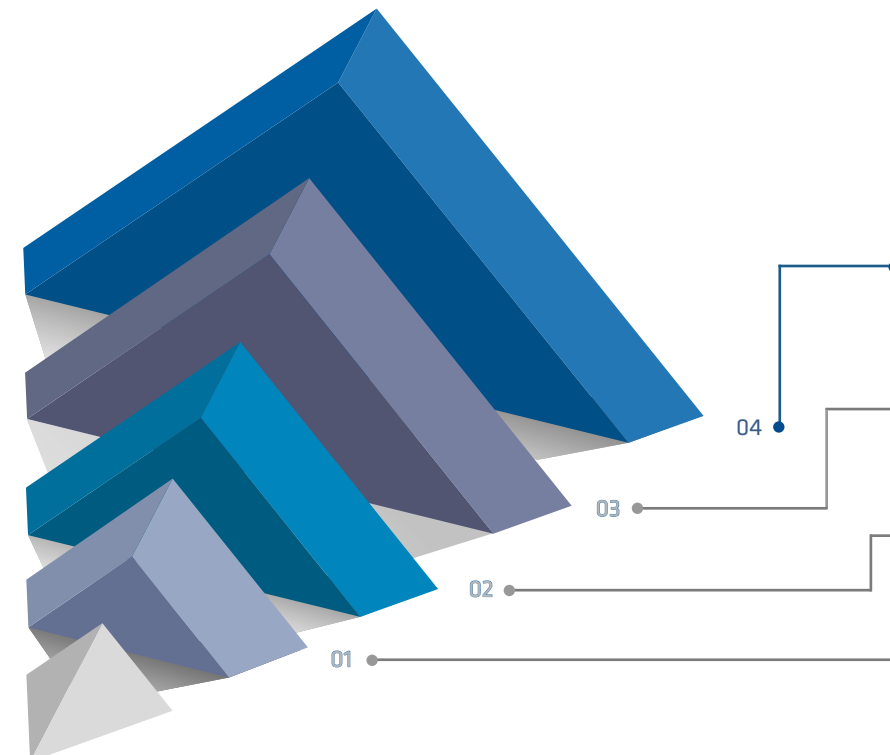




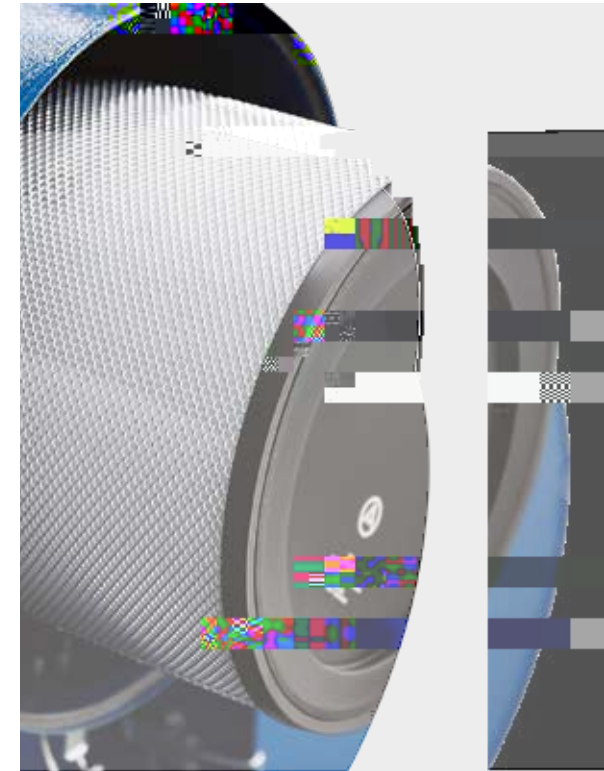
system . Full transparency for your



Aerzen WebView: Access to operational and service data from anywhere in the world



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04

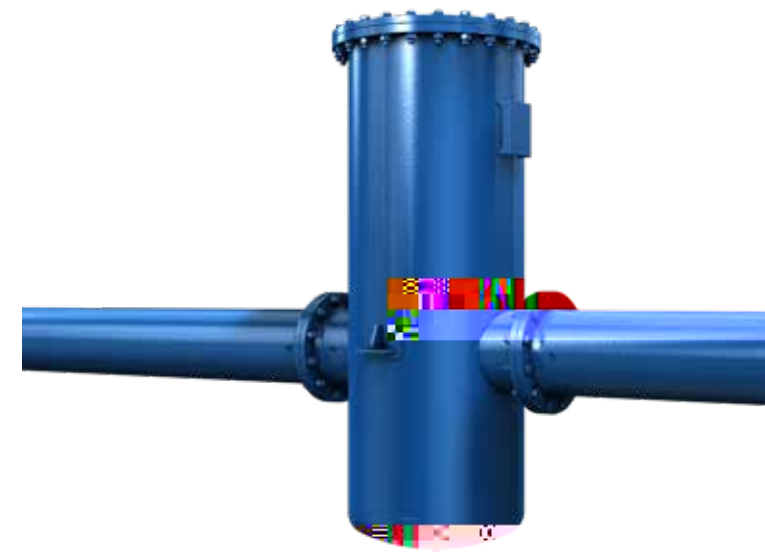


Coarser pored or finer – AERZEN offers filters for almost all ambient conditions

Filter technology

AERZEN offers filters in a range of options – tailored to a wide variety of room air conditions. For example, the filter solution F7 for increased requirements. The filter cartridge has an identical construction to that of the standard filter G4. It can therefore also be replaced without any problems in existing Generation 5 machines. We have designed suitable zone separation filters for various ATEX requirements and zones so that customer systems can also be operated safely in potentially explosive areas. Our zone separation filter complies with dust class M5.

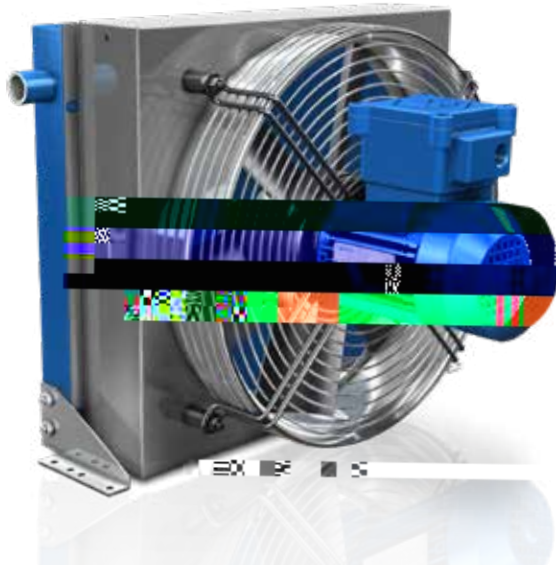
- High-quality, stable standard filters with G4 separation efficiency
- Filter cartridges also available in F5 or F7
- Quick interchangeability with a few simple steps thanks to simple plug & play procedure
- Optional zone separation filter for use with suction conveying (vacuum operation) with EX-atmospheres



Additional filter on the discharge side

In addition to the filter elements for protecting a machine, a customer's process can also be protected by using a do,

Aftercooler - air-to-air



Aftercooler - water-to-air

- Precisely regulated discharge temperature
- Functional principle: Compressed medium flows through the cooler pipes, cooling water rinses around the pipes in counterflow
- Can also be used for heat recovery
- Designed for minimum pressure loss
- Versions: fixed or removable pipe bundles, smooth or ribbed pipes, made of stainless steel for high gas temperatures, made of copper-nickel for seawater. Incidentally: what's more, ribbed pipes increase pressure loss compared with smooth pipes, but offer better heat transfer
- Accessories and Options: Cyclone separators, automatic condensate drain, flange and counter flange kits, special paintwork, corrosion protection

Reduces costs in compressed air generation

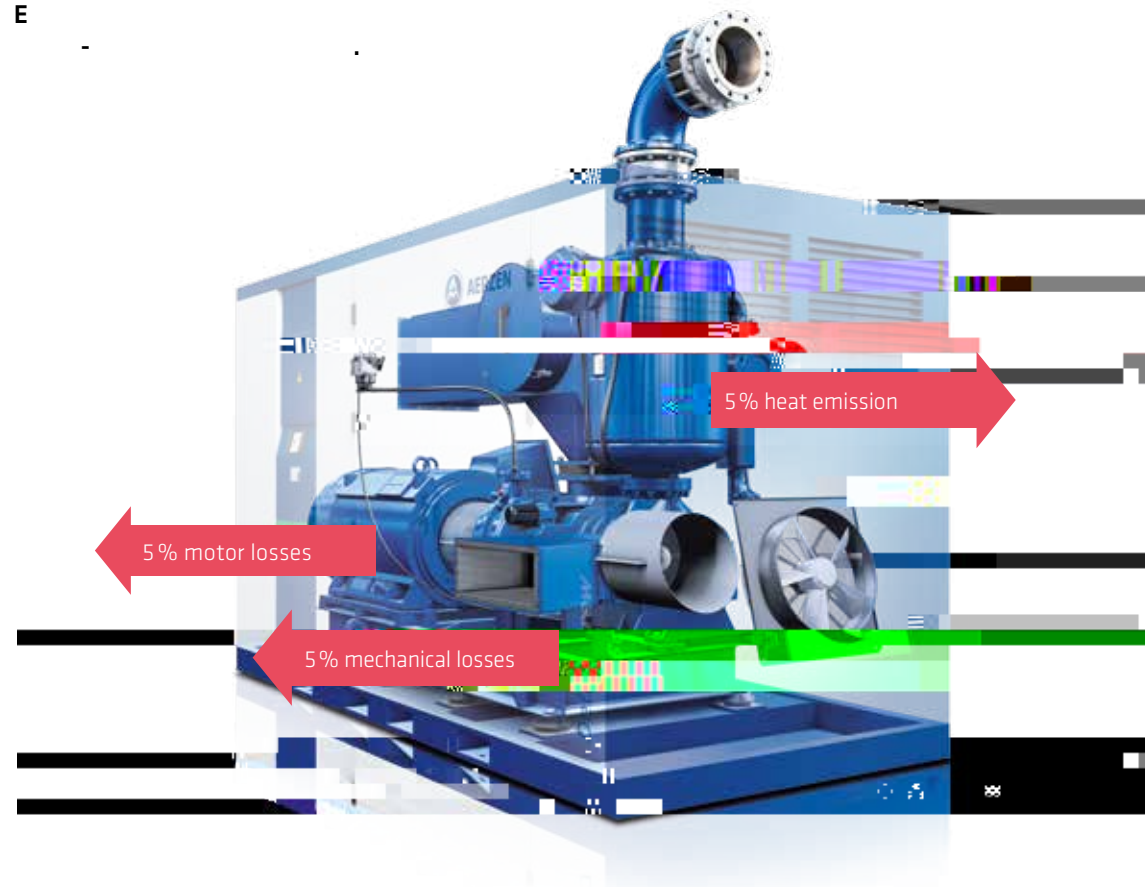
Waste heat and heat losses are no bad thing if they are used. AERZEN offers a particularly efficient way to recover this heat energy with the technology of its water-to-air aftercoolers.

Compressed air with reduced energy consumption

Approximately 85% of the electrical power that blowers and compressors consume is converted into thermal energy; this is contained in the discharge-side gas flow. The water-to-air aftercoolers are optimally designed to ensure that up to 100% of this lost heat is recovered. The strongly heated air is cooled with circulating water; it heats the water from this secondary circuit, which is then available for a subsequent process. This hot water can be used for sludge drying, hot water production or for supporting heating systems, depending on the instal-

lation and industry. Several positive effects can be achieved with this system. Above all, it saves on costs for heat generation. This in turn causes a reduction in the use of gas or oil, which has a direct positive effect on the pollutant emission balance through CO2 reduction! Thanks to the heat recovery solution from AERZEN, you can save big on energy costs for primary heat generation with a comparatively low investment; it quickly pays for itself.

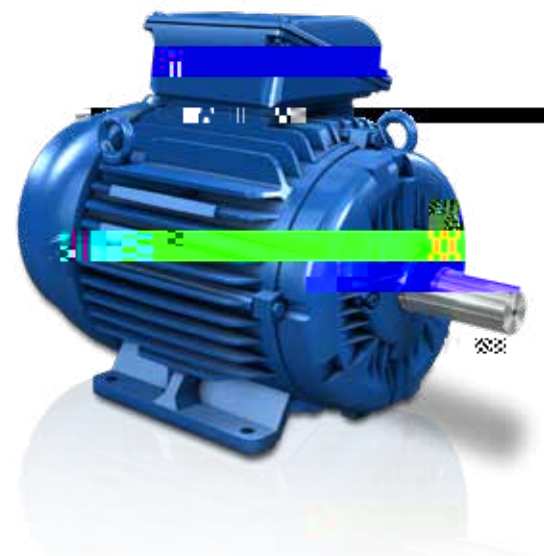
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Perfect fit for your application

Only when machines are perfectly tailored to the respective applications can they be truly safe and efficient. That is why every AERZEN blower or compressor accessory is bespoke and designed for AERZEN products.



AERZEN special motors – for special ambient conditions and deviating voltages

Special motors

All AERZEN assemblies are delivered with 2-pole or 4-pole asynchronous motors as standard. They provide a strong drive in the compression process. Depending on the ambient conditions, customised motors are recommended as an alternative. AERZEN offers a variety of modifications for this purpose.

- Broad supplier range comprised of renowned motor manufacturers
- Deviating voltage up to 10,000 V
- Reinforced bearings
- Integrated and automated relubrication devices
- Motor standstill heaters
- Special protection classes
- Special coating
- ATEX design
- Bearing monitoring for vibration and temperature
- Winding temperature
- Motor according to NEMA standard
- Diesel motors

After the second stage of regulation of electric drives (IEC60034-30-1 standard), the IE3 energy efficiency class applies to motors in the power range 0.75 - 375 kW AERZEN always uses IE3 motors as standard. Of course, the Super Premium Efficiency motors of the IE4 class are also optionally available.

In addition to the above-mentioned electric drives, there is always the option to use a combustion engine. The corresponding assembly including sound hood and control unit is then specially prepared for use.



Special materials

In certain applications it is necessary to make all parts of the blower or compressor that come into contact with the medium out of stainless steel or provide them with a special coating. For example, in applications where the medium is highly corrosive or abrasive, special materials are used to ensure long service life and reliability.



Ideal for desert installation: the acoustic hood with sand separator



Special acoustic hoods

They protect workers and the environment from high noise emissions. And machines from extreme conditions. Modified acoustic hoods from AERZEN. Guaranteeing that compressors and blowers from AERZEN can be used everywhere. For indoor and outdoor installation. In industrial parks as well as near residential areas. Onshore and offshore. Stationary or mobile. As reliable in Siberia as in the Sahara. And worldwide under all conceivable environmental conditions. Our portfolio of modified acoustic hoods always offers an optimal solution. For all applications. Like this one:

- On- and offshore according to corrosion protection class C5-M or C5-I as per DIN ISO 12944
- Earthquake-proof according to magnitude 5.9 on the Richter scale
- Reduction of very high sound emission up to 35 dB(A)
- Desert installations with additional sand collector
- Truck or ship installations with stabilisation
- Increased wind loads up to around 210 km/h
- Extremely cold temperature zones of -40 °C and more
- Use of HV and MV motors with special dimensions

The perfect start for your process air system

They ensure the perfect start. And for the high efficiency of the AERZEN assemblies: Tailor-made power supply panels for the most diverse requirements. The assemblies can be powered via various power units. The selection of the appropriate power supply panel is just as individual as the actual conveying process.



Standard or customised – power supply panels from AERZEN ensure the perfect motor start

Power modules

The power supply panels are just as individual as the conveying process itself. The suitability and price benefits of the respective drive variants are dependent on whether the load is to be relieved or loaded or whether the conveying volume is variable. AERZEN offers complex solutions, from frequency inverters and soft starters to star/trick- or DOL relays (Direct On-Line). Integrated or stand-alone installation. In power ranges from 3 kW to 710 kW.

Especially with large machines, this is an important factor to keep the load on machines and plants low. In addition, the wrong start-up technology can cause high grid loads, which can lead to deviations in service provision from your energy supplier. Therefore, the correct selection of the power supply panel is an important factor in the area of peak load management. Exceeding the maximum power consumption can cause your energy supplier to increase supply costs and thus incur unplanned additional expenses.

	D	D	F	
Variable speed	No	No	No	yes
Thermal relief for winding	No	yes	yes	yes
High inrush current	IA >= 7x IN	IA >= 3x IN	Yes - voltage control	No - power adjustment
Starting with full torque	yes	No	No	yes
Wear-reduced start-up thanks to torque control	No	No	yes	yes
Power reduction in the partial load range	No	No	No	yes
Operation of motor above mains frequency (50 or 60 Hz)	No	No	No	yes
Investment cost	Low	Low	Low	Medium to High

Use of frequency converters

In addition to the run-up characteristics, operation with a power supply panel is just as important. After run-up, most of the start-up technologies such as DOL, Start Delta or soft starters have served their purpose. They are through-connected to generate as little loss as possible during operation. Only the frequency inverter remains active during operation. Thanks to its frequency and voltage regulating properties, the frequency inverter can be used for torque or power adjustment as required.

For example, it is possible to control blowers and compressors with pinpoint accuracy and in line with a narrow pressure band. Without the use of frequency converters, it is necessary here either to switch the machine on or off or to blow off air that is not required. A real energy dissipation circuit. Intelligent control using frequency inverters allows significant savings to be made over the operating range and thus enables a quick return on investment compared to cheaper start-up methods.



- Exactly designed for compressors and blowers from AERZEN
- Application range optional up to 55 °C ambient temperature
- Integrated switch cabinet heating for protection against condensate optionally available
- Modified standard switch cabinets also available for 460/480V or 500/525V at 50 and 60 Hz

- Power and control circuit completely wired
- Pre-parameterised according to customer data
- Significantly reduced installation space thanks to integrated power cabinet
- Perfect control of the nominal speed via frequency inverter
- Optional: Connection for auxiliary drives such as air-to-air aftercoolers up to 5 kW



Reduce your maintenance costs – re-lubrication devices from AERZEN

Re-lubrication devices

Intelligent components that save maintenance costs. Re-lubrication devices from AERZEN grease the bearings of electric motors. Automatic. As required. And precisely measured according to manufacturer specifications. At intervals of up to 36 months This saves a lot of on-site service work. And ensures the long-term economical operation of your compressed air packages.

System Vario:

Self-sufficient system thanks to integrated power supply.

System Control:

Re-lubrication over service life without danger of over- or undergreasing. Power supply via preconfigured and parameterised AERtronic. Output of fault message at higher viscosity or empty cartridge.

- Easy to retrofit in any existing system
- Low annual costs, optimised maintenance result
- The dispensers provide optimised grease quantity delivery with flexible programming up to 36 months
- Cartridge or battery change visible on the dispenser

. Compression is the key to our success

The Aerzener Maschinenfabrik GmbH was founded in 1864. 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, screw compressors and turbo blowers. And among the undisputed market leaders in many areas of application.

In more than 50 subsidiaries around the world, more than 2,600 experienced employees are working hard on shaping the future of compression technology. Their technical competence, our international network of experts and the continual feedback from our customers are the basis of our success. AERZEN products and services set standards. In particular, with regard to reliability, stability of value and efficiency. Challenge us.



LET'S TALK

www.aerzen.com/worldwide

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