

Screw Blower Delta Hybrid

Volume flows from 100 m³/h to 9.000 m³/h



AERZEN
EXPECT PERFORMANCE

Delta Hybrid

Efficiency as Compression principle

In a time of fiercely contested markets and increasing competition, a company with more than 160 years of history has become a rarity. Today, AERZEN is one of the few family-owned companies that remains well known for consistent quality and powerful innovations. The impressive performance of Delta Hybrid screw blowers proves this once again, setting new standards in reliability and energy efficiency.

AERZEN – A tradition of innovation

Founded in 1864, today Aerzener Maschinenfabrik is a world leader in compressor technology. Used in countless applications, AERZEN positive displacement blowers, turbo blowers, and screw compressors have been renowned worldwide for decades. A dedicated R&D department ensures that AERZEN technology undergoes continual development. Pioneering innovations developed by the department, such as Delta Hybrid, the world's first rotary lobe compressor resp. screw blower, and the Aerzen Turbo with air bearings, have exerted a major influence on technological progress. It is all in keeping with our company's motto: 'Expect performance'.

Energy consumption: a key issue in the future

With increasing demand for resilient, lasting technology that offers minimal energy consumption and high performance, rising energy costs and dwindling resources are of greater concern to companies, researchers, and end users now more than ever before. The increasing scarcity of resources gives particular cause for concern. Basic industrial processes are associated

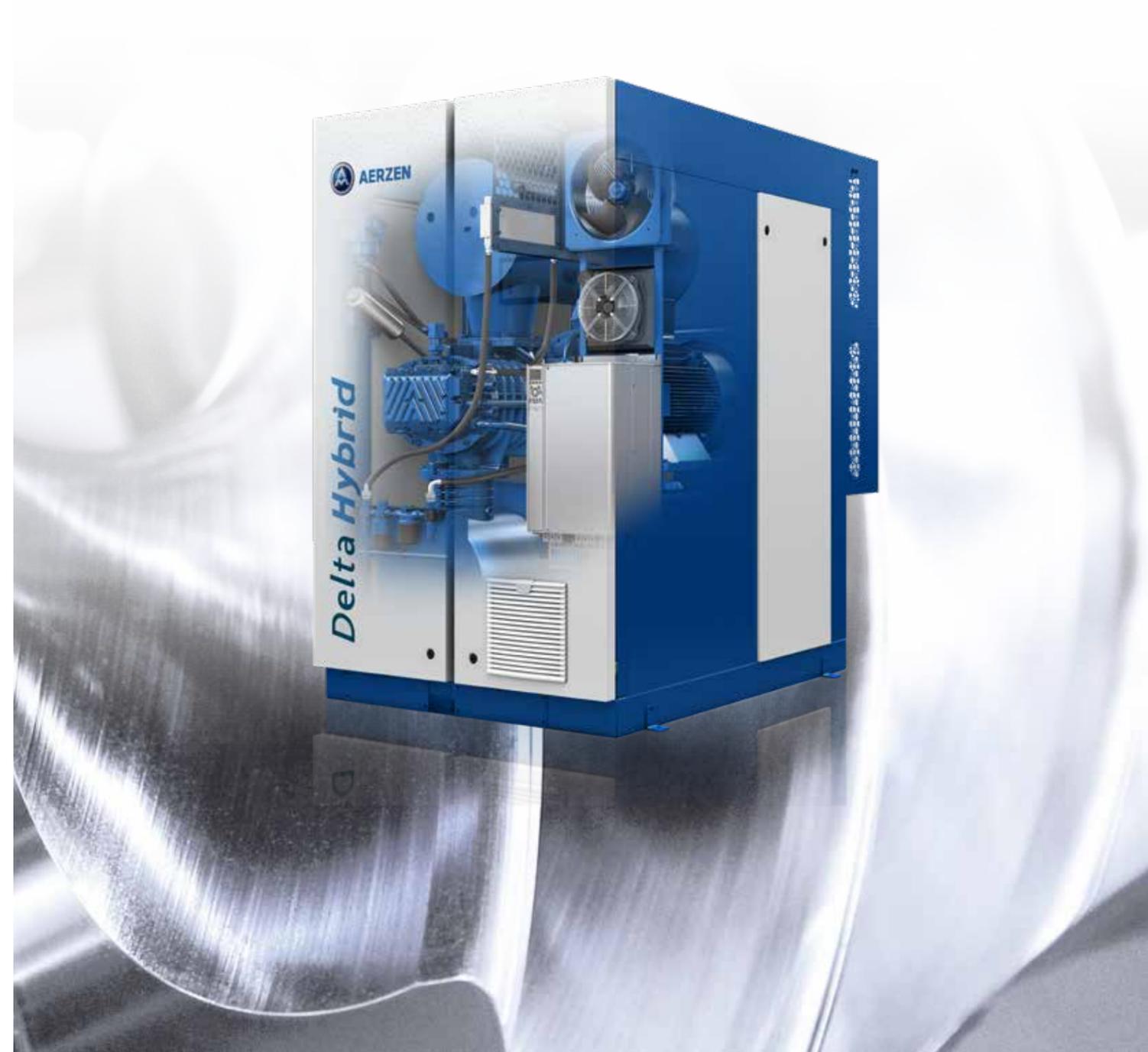
with some of the highest energy costs. Processes involving pumps and compressors, regardless of type, account for the highest percentage of total energy costs – 30%. This affects wastewater treatment applications as well. The treatment of wastewater in aeration tanks consumes a staggering 60% to 80% of the total energy required by a wastewater treatment plant. It is the right time to construct a future with technologies based on low energy costs and sustainability.

The right solution for every application

AERZEN successfully introduced its innovative, rotary lobe compressors resp. screw blowers to the market in 2010. Today, more than 10.000 installations worldwide attest to its superior reliability, and low energy and maintenance costs. AERZEN's screw blowers are used for a wide range of different applications, including oxygen supply in the biological processes of wastewater treatment plants, fermentation in yeast production, providing oxidation air for lime and cement production, pneumatic conveying, textile and many more...

! Your advantages

- ✓ Highest energy efficiency
- ✓ Reduced life-cycle-costs
- ✓ High reliability and durability also under extreme conditions
- ✓ Largest volume flow control range
- ✓ Reduction of machine and piping noise
- ✓ Reduced maintenance effort
- ✓ 100% oil free process air
- ✓ Safe and predictive operation thanks to AERtronic
- ✓ Plug & Play
- ✓ Easy transportation and fast installation
- ✓ Trained worldwide service network





The perfect solution for your aeration system in WWTP

Extend the field of operation

Use the greatest variety of applications

Delta Hybrid operates in an extremely wide range of key industrial applications in wastewater and pneumatic conveying. The machines are designed for the oil-free conveyance of air for positive pressure applications with the nominal widths from DN 100 to DN 300.

Extended pressure ranges, suitable for more applications

The versatile packages extend the range of applications to a pressure difference of up to 1,500 mbar (series H). Delta Hybrid thus impressively closes the gap in the existing machine park. Remark: Because conventional rotary lobe blowers are limited to a maximum pressure difference of 1,000 mbar due to their design principle, other types of compressors had to be used for higher pressure ranges in the past. However, some of these were designed for significantly higher pressures and thus also involved higher investment costs.

Hotter temperatures. More safety

Delta Hybrid screw blowers can be used globally. Also in zones where extreme ambient temperatures of -40°C to +50°C prevail. With Delta Hybrid, discharge temperatures of up to 230 °C are possible today. The prerequisite for operational reliability in all processes.

AERZEN Engineering

AERZEN modular design with standard options (Nominal diameters DN100 - DN300) meets almost every customer requirement. Where a standard solution is not sufficient, AERZEN develops special designs or special machine configurations. Always with an eye on making the process performance as effective as possible for every power requirement. Special designs include ATEX-compliant machines, special motors, acoustic hoods for special noise reduction or for extreme ambient conditions, special oils suitable for food and beverage and intake filters with a higher filter class.



Reliable positive pressure and ATEX compliance: powerful combination for pneumatics



Applications

- Wastewater treatment
- Drinking water treatment
- Pneumatic conveying of bulk materials (suction/pressure pneumatics)
- Aeration of rivers and lakes and much more

Industries

- Wastewater Treatment Plants
- Chemistry and process engineering
- Glass and paper
- Food
- Cement and much more

Save energy

The best for the corporate and ecological balance sheet

Around 90% of the life-cycle-costs of a compressor are energy costs. A number that becomes a challenge. Wherever environmental concerns and global competition require the mobilisation of all potential. AERZEN meets this challenge like this: up to 37% energy saving compared to conventional lobe blowers. With a ROI that can be achieved after few months, depending on volume flow and pressure. That is what the Delta Hybrid represents.



Two technologies. One package

Delta Hybrid is the perfect synthesis of positive displacement blower and screw compressor. Unlike the conventional positive displacement blower (max. 1,000 mbar), the innovative screw blower uses a new and unique 3+4 compressor profile, which is specially designed for low pressure applications up to 1,500 mbar. Delta Hybrid thus closes the gap in the previous machine mix and offers a wide range of services for precise design to meet the most diverse process requirements. The result is a new level of cost efficiency for compressed air applications.

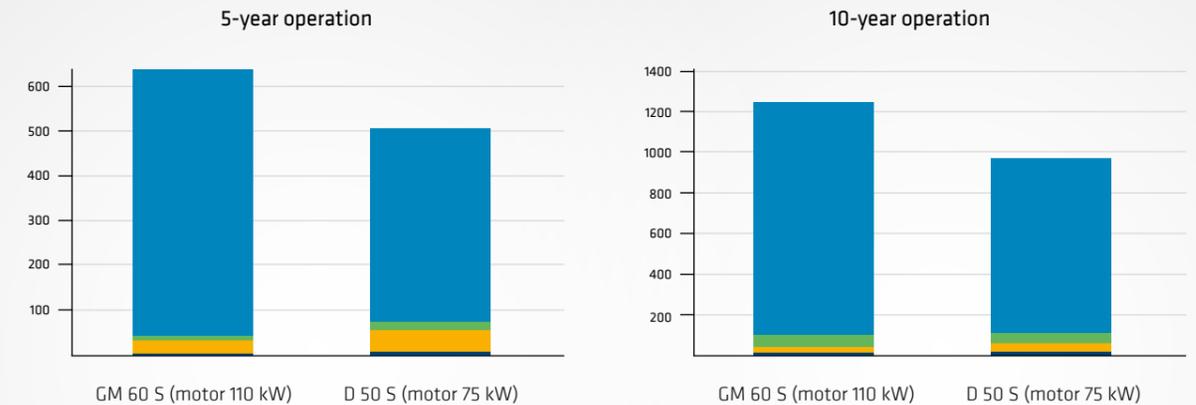
A long life ahead

Durability is a question of careful material selection and quality of workmanship. But it is also the result of extensive development work. In relation to Delta Hybrid, this includes special drive and conveying chamber sealings that impress with minimal wear. Another example is the patented bearing of AERZEN. At a pressure difference of 1,000 mbar it extends the theoretical nominal bearing life to more than 60,000 hours $L_{h_{10}}$.

Energy saving arises from many details:

- New and unique screw blower profile
- Very high volume flow control range up to 1:5
- Patented suction cone for reduced pressure losses
- Optimised air flow in the acoustic hood
Leads to the intake of cold air and thus increases the compression efficiency
- Flow technically improved inlet and outlet contour. They ensure ideal air flow in the compressor stage and reduce backflow losses.
- Optimised non-return flap and nominal sizes that generate less pressure losses
- Electrically driven acoustic hood fan
- Super Premium Efficiency (IE4 motors) or Ultra Premium Efficiency (IE5 motors)
- Stable operation even with large pressure fluctuations and extreme inlet temperatures (e.g. in summer or winter operation)
- Drive technologies with minimised power losses

LCC comparison GM 60 S and D 50 S



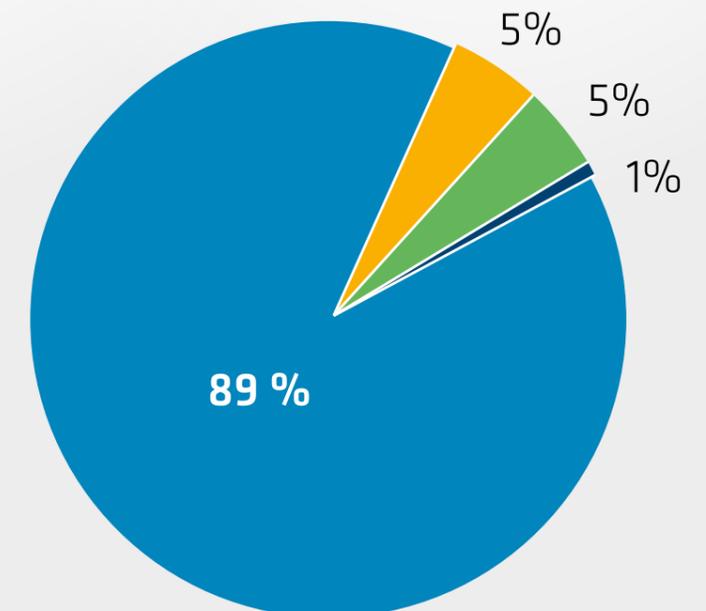
Operating data: 50 m³/min, 800 mbar delta p,
6000 operating hours/year
Savings of around 130 KEuro; ROI: < 1 year

Operating data: 50 m³/min, 800 mbar delta p,
6000 operating hours/year
Savings of around 280 KEuro; ROI: < 1 year

Reduction of life-cycle-costs

Average operating costs of a compressed air generator over 10 years:

- Energy
- Investment
- Maintenance
- Installation



D40S, D50S, D65S and D80S

New sizes for the widest screw blower portfolio on the market

D40S, D50S, D65S and D80S - Customer satisfaction is the first goal of AERZEN. This is why it has been decided to expand our Delta Hybrid range. AERZEN wants to provide you a perfect match especially regarding a reduction of life-cycle-costs. Other features have been added to the machine in order to maximise customer experience.

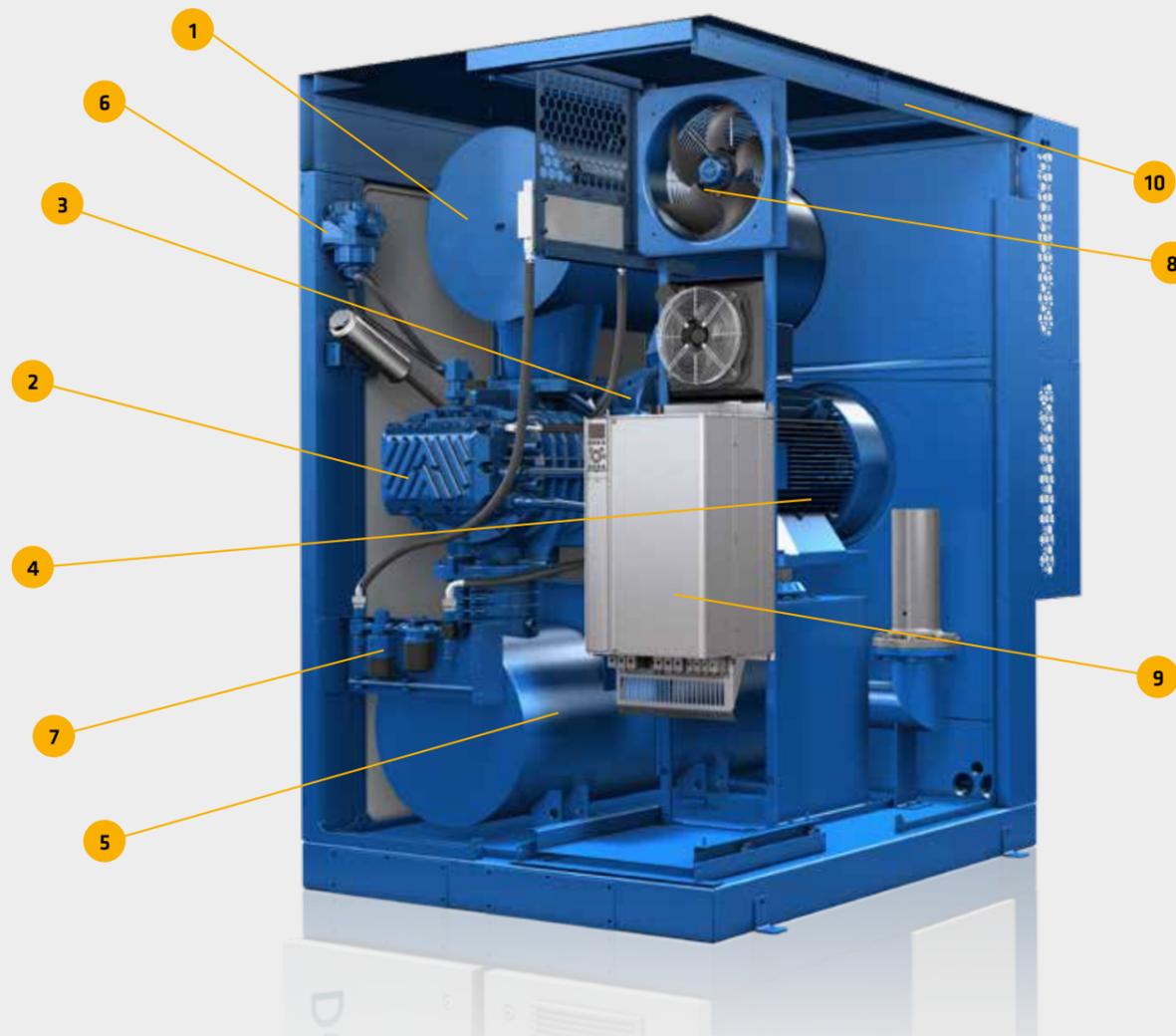


Compact integrated starter solution consisting of

- Integrated power supply cabinet keeping the same footprint
- Available starters: frequency converter, Star-delta, DOL, Soft starter
- Pre-assembled electrical cubicle with all needed components such as modules, transformers, etc.
- Proper ventilation system to guarantee supreme reliability of the electrical components
- Emergency stop button
- In case of variable speed solution use of Danfoss Aqua frequency converter equipped with integrated Local control panel and EMC filter for a secure operation of the packages

Standard scope of supply:

- 1 Inlet filter silencer**
 - With integrated filter cartridge
 - Direct air supply via dedicated intake duct
- 2 AERZEN screw blower stage**
 - With superior energy efficiency
 - New and unique 3+4 screw profile rotors w/o coating
 - Bearings having a theoretical lifetime of even more than 60.000 Oh
 - Wear-free sealings for the drive shaft and the conveying chamber guarantee 100% oil free compression of air
- 3 Direct drive by means of gears**
 - Between the stage and the motor
- 4 Motor**
 - With energy efficiency class IE4 or IE5
- 5 Outlet silencer**
 - Flexible design according to customer and process requirements
 - Spark arrester with certificate available
- 6 Electrical negative pressure generator**
 - For safe oil chamber deaeration
- 7 Oil system**
 - With an electrically driven oil pump for forced lubrication and long bearing lifetime
 - With an oil level switch for safe operation
 - With an oil filter
 - With an oil cooler



- 8 Fan**
 - Electrically driven for an effective cooling under the acoustic hood
 - 9 Electrical cabinet**
 - With completely connected and wired pressure and temperature sensors
 - Optional solution with an integrated Danfoss Aqua frequency converter
 - 10 Acoustic hood**
 - For indoor installation (outdoor optional)
 - With vibration damping, elastic machine feet
 - With integrated oil drip pan
- AERtronic**
- Control for efficient and safe operation of the entire system with display and monitoring of intake, discharge and oil pressure, as well as discharge and oil temperature

Also included in the scope of supply

- Connection housing including non-return valve
- Flange compensator or flexible rubber sleeve with clamps
- Pressure valve according to PED
- Machine filled with oil (Delta Lube)
- Complete documentation



Other options or modifications on request

Delta Hybrid direct driven

Everything you need in one single screw blower

Extraordinary energy efficiency, extreme compactness, durability and reliability, lowest maintenance effort and quiet operation: These characteristics are directly reflected in the cost balance of each compressor. AERZEN has kept it in mind in the development of this new Delta Hybrid sizes. This new solution comes from many "Voices of customers". Therefore it will convince even the most exigent individuals.

Extraordinary energy efficiency

- New and unique 3+4 rotor profile
- Energy savings up to 37% compared to lobe blowers
- Extended control range with almost constant specific power consumption
- Separate air intake channels for process and cooling air
- Optional Ultra Premium Efficiency IES motors
- IES2 System efficiency class (motor + frequency converter)

Extremely compact design

- Space-saving side-by-side installation
- Smaller dimensioning of machine rooms
- Easy access for service and maintenance work
- Integrated power supply panel having the same footprint
- User-friendly transportation and installation

Easy transport

- With pallet truck, crane or forklift truck
- Easily transported through standard industrial doors

Plug & Play

- Completely pre-installed and parametrised package
- Immediately ready for connection and operation
- Machine filled with oil upon delivery

Direct drive by means of gears

- Possibility to use IE5 synchronous reluctance permanent magnet motors
- Volume flow control range up to 1:5 can be achieved
- Compact design, especially when using an integrated frequency inverter

High reliability and durability

- Increased theoretical bearing life of more than 60,000 Oh
- Pressure lubrication for exceptional reliability of the bearings
- Active oil level monitoring using an oil level switch
- Reliable even in extreme climatic conditions (+50°C) thanks to the use of an oil cooler
- Acoustic hood for outdoor installation (optional) for use of the machine under direct atmospheric influences



Comfortable operating concept

- Operation and maintenance by front and rear side
- Oil level monitoring at running machine / no need to interrupt customer process

AERZEN machine control „AERtronic“

- Control and monitoring of the package
- Numerous interfaces: Profibus, Modbus RTU, Modbus TCP, Profinet etc.

Smart oil system

- Doubled oil change intervals. Extended to up to 16,000 operating hours
- Oil level monitored during operation.
- Forced lubrication thanks to an electrically driven oil pump
- Oil instead of grease. Oil-lubricated bearings (oil injection) increase the service life
- Can also be operated with foodgrade oil
- Oil pan under the stage to increase safety in case of oil leakage

Safety first: no contamination of customer product and process

- Oil-free process air for sensitive applications. For example, in the chemical and food & beverage industries
- TÜV-certified according to ISO 8573-1 class 0
- No coating of the screw rotors
- Reactive sound reduction solution available, so no release of absorption material from the discharge silencer

Intelligently reduced sound level

- Maximum machine noise reduction up to 76 dB(A)
- Possibility of silencer technology according to the customer and application requirements
- Innovative pulsation reduction in the compressor stage
- Patented suction cone to reduce inlet noises
- Optimised acoustic hood
- Many options and modifications for increased sound level requirements

Pressure valve approval according to PED directive

Delta Hybrid belt driven for precise design and quick air flow adjustment

This also saves resources: Delta Hybrid packages are ready for immediate use upon delivery. The effort for the engineering, the optimal configuration, the precise design for your process: all this is done beforehand at AERZEN. And from a single source. We call this delivery concept all-in. What we mean by this is: there is no easier way to bring sophisticated compressor technology to the start.

Compact integrated starter solution consisting of

- Available starters: frequency converter, Star-delta, DOL, Soft starter
- Pre-assembled electrical cubicle with all needed components such as modules, transformers, etc.
- Proper ventilation system to guarantee supreme reliability of the electrical components
- Emergency stop button
- In case of variable speed solution use of Danfoss Aqua frequency converter equipped with integrated Local control panel and EMC filter for a secure operation of the package

Preventive maintenance and other options:

- Maintenance packages for 1-year, 2-year or 5-year operation
- Extensions for the AERtronic (additional interfaces, ready for Industry 4.0, vibration monitoring)
- Intake by pipe
- Start unloading device
- Integrated spark arrester with certificate
- Additional soundproofing measures for high demanding requirements
- ATEX compliant
- Rain protection for outdoor installation
- Belt guard
- Special painting
- Foodgrade oil usage
- Other options or modifications on request



The extended range of Delta Hybrid scope of supply

- AERZEN screw blower stage with superior energy efficiency equipped with:
 - New and unique 3+4 screw profile rotors w/o coating
 - Bearings having a theoretical lifetime of even more than 60.000 Oh
 - Wear-free sealings for the drive shaft and the conveying chamber guarantee 100% oil free compression of air
 - Forced lubrication and long bearing lifetime (except D52S & D62S)
- Oil-cooler if needed, for high demanding application
- Electrical negative pressure generator for safe oil chamber deaeration
- Acoustic hood for indoor installation (outdoor optional)
- Separate air intake channels for process air and effective cooling under the acoustic hood
- Electrically driven acoustic hood fan
- Hinged motor mounting plate for automatic V-belt tension and for safety during transport or for placing or changing belts
- Proven high-performance V-belt drive
- Filter silencer with integrated filter cartridge
- Three-phase motor with energy efficiency class IE3 or IE4
- Base frame with reactive integrated discharge silencer (absorption-free)
- Vibration damping, elastic machine feet
- Connection housing including non-return valve
- Flange compensator or flexible rubber sleeve with clamps
- Pressure valve according to PED
- Oil level switch for safe operation
- Electrical cabinet with completely connected and wired pressure and temperature sensors
- AERZEN AERtronic control for efficient and safe operation of the entire system with display and monitoring of intake, discharge and oil pressure, as well as discharge and oil temperature
- Complete documentation
- Delta lube oil

Moving ahead our processes, economically. From A as in assembly to Z as in zone separation filter

Easy installation and commissioning, minimum maintenance: these characteristics are also directly reflected into the cost balance. A good reason for AERZEN to keep a special eye on them during the development of the Delta Hybrid generation. The results convince even the smartest customers.

Highest energy efficiency

- New and unique 3+4 rotor profile
- Energy savings up to 30% compared to lobe blowers
- Extended volume flow control range
- Optimized air flow within the acoustic hood
- IES2 System efficiency class (motor + frequency converter)

Extremely compact design

- Space-saving side-by-side installation
- Smaller dimensioning of machine rooms
- Easy access for service and maintenance work

Easy transport

- With pallet truck or forklift truck
- Safe due to innovative hoist for hinged motor mounting plate

Plug & Play

- Completely pre-installed package
- Immediately ready for connection and operation
- Included service package for commissioning

Multifunctional base frame with integrated hinged motor mounting plate

- Transport safety lock
- Easy and safe assembly of V-belts
- Mobile installation of packages (e.g. ship installation/earthquake design)
- Supports even heavy motors

Belt drive and hinged motor mounting plate

- Fully automatic and maintenance-free belt tension
- Easy and cost-effective installation or replacement of the V-belts
- Precise transmission to meet exact customer requirements
- Subsequent power adjustment is quick and easy
- Mechanical, vibrational and electrical decoupling of motor and stage

ATEX certified for dust-zone (optional)

- Discharge silencer certified as spark arrestor for ATEX



Comfortable operating concept

- Operation and maintenance by front and rear side
- Oil level monitoring at running machine / no need to interrupt customer process

AERZEN machine control "AERtronic"

- Control and monitoring of the package
- Numerous interfaces: Profibus, Modbus RTU, Modbus TCP, Profinet etc.

Smart oil system

- Doubled oil change intervals. Extended to up to 16,000 operating hours
- Elimination of the initial oil change
- Oil level monitored during operation.
- Forced lubrication thanks to an oil pump
- Oil instead of grease. Oil-lubricated bearings (oil injection) increase the service life
- Can also be operated with foodgrade oil

Safety first: no contamination of customer product and process

- Oil-free process air for sensitive applications. For example, in the chemical and food & beverage industries
- TÜV-certified according to ISO 8573-1 class 0
- No presence and therefore no release of absorption material from the outlet silencer
- No coating of the screw rotors

Intelligently reduced sound level

- Patented discharge silencer w/o any absorption material
- Silencing exclusively by air deflection
- Innovative pulsation reduction in the compressor stage
- Patented suction cone to reduce inlet noises
- Optimised acoustic hood
- Available integrated solution for sound level reduction in WWT

Pressure valve approval according to PED directive

The new AERtronic

The path to the digital future

With the new edition of the AERtronic control system AERZEN paves the way to more digitisation and monitoring capabilities in compressed air generation. AERtronic offers a user-friendly and clear possibility for the analysis and processing of relevant process parameters and thus provides more transparency, safety and efficiency. AERtronic sets a new standard. It is installed as standard in all Delta Hybrid packages.

Always at the optimum operating point

In the new control system, all measured values converge and are systematically evaluated. This makes it possible to transfer the data to the production control system via common interfaces and to run the plant always at the optimum operating point. Operators can achieve full protection and align processes for maximum effectiveness. The integrated maintenance book also makes it easier to plan maintenances and, thus, increases their efficiency.

Advantages at a glance

- Process analysis and associated avoidance of quality or performance problems
- Direct connection to the master process control system
- Provision of all process parameters as well as maintenance and error information on the display, via interface and WebView
- Simplest possibility of holistic process observation thanks to comprehensive system connection, made possible by the provision of all common interfaces
- Full protection of your machine technology
- Transparent visualisation via 7" touch and user-friendly interface
- Prepared for Industry 4.0 and Water 4.0 applications



The smart way to more safety and transparency in the process air system - the new AERtronic

Three variants for individual requirements

The development of the new AERtronic series always focused on the customer requirements of the various industries. Therefore, AERZEN offers the communication-capable control system in three different versions: Basic, Advanced and Premium. The variants differ in terms of their range of functions and are adapted to the individual requirements of the plant operator in terms of connection and application.



Mobile visualisation of process data

| | Advanced | Premium | |
|---|---|--|--------|
| Digital Display instrument | 7" full Touchscreen display | ✓ | ✓ |
| | Digital display of all measured parameters | ✓ | ✓ |
| | Display of warnings, faults and maintenances | ✓ | ✓ |
| | Design for indoor and outdoor installation up to IP65 and ambient temperatures in operation from -20°C to +55°C | ✓ | ✓ |
| | Machine control by start signal | ✓ | ✓ |
| | Extensive language selection | ✓ | ✓ |
| | Functional extensions via activation codes | ✓ | ✓ |
| | Emergency shutdown in case of machine malfunctions | ✓ | ✓ |
| | Process data storage on SD card | ✓ | ✓ |
| | Process control connection via Modbus RTU (RS485) | ✓ | ✓ |
| Active plant and process control | Process control connection via Modbus TCP (RJ45), | Option | ✓ |
| | Visualisation of the measurement data via trend graphs | ✓ | ✓ |
| | On-site on/off switching via touch | ✓ | ✓ |
| | Integration of special sensors and actuators | ✓ | ✓ |
| | Function update via SD card | ✓ | ✓ |
| | Remote control of the machine via bus and digital communication | ✓ | ✓ |
| | Process control connection via ProfiNet® or ProfiBus® | Option | Option |
| | Process control connection via EtherNet/IP | Option | Option |
| | Process control according to set pressure and oxygen content in the customer system | Option | Option |
| | Remote monitoring and optimisation in the cloud | Connection to Aerzen Digital Platform via 4G/LTE modem | • |
| AERprogress Machine Park Management: Live monitoring with remote access from anywhere | | • | ✓ |
| AERprogress Improvement System: Increase of machine and plant efficiency | | • | Option |
| AERprogress Consumption Certification: Reports according to energy management standard ISO 50001:2018 | | • | Option |
| AERprogress Availability Management: Optimising the Availability | | • | Option |
| AERprogress Usage-based Maintenance: Maximisation of maintenance intervals | • | Option | |

AERprogress is the digital services provided by AERZEN Digital Systems to increase the energy efficiency, availability and reliability of AERZEN machines. AERprogress ensures maximum transparency in the processes and helps to sustainably optimise the cost structure in Machine life-cycle-cost Management.

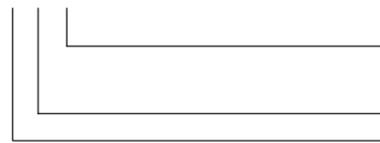
Delta Hybrid in figures

Plan your efficiency gain in the compression process

The innovative Delta Hybrid screw blower series is available in the H and S designs with a total of 16 sizes. For volume flows from approx. 100 to 9.000 m³/h and positive pressures up to 1,500 mbar. A wide range of machines for precise design and therefore a high variety of processes.

Explanation of the type designation:

Example: D 50 S



Type of construction:
 H = Pressure difference up to 1.500 mbar
 S = Pressure difference up to 1.250 mbar

Max. volume flow in m³/min (approx.)
 Screw blower

| Positive pressure | | | | |
|-------------------|---------------------------------|--------------------------------------|----------------------|-------------------------------------|
| Size | Differential pressure max. mbar | Volume flow max. m ³ /h * | Motor rating max. kW | Sound pressure level max. dB (A) ** |
| D 12 S/H | 1.500 | 670 | 37 | 73 |
| D 13 S | 1.000 | 775 | 30 | 72 |
| D 17 S | 1.000 | 1.010 | 37 | 73 |
| D 24 S/H | 1.500 | 1.370 | 75 | 76 |
| D 25 S | 1.000 | 1.440 | 45 | 74 |
| D 30 S | 1.000 | 1.780 | 55 | 75 |
| D 36 H | 1.500 | 1.900 | 110 | 76 |
| D 36 S | 1.100 | 2.150 | 75 | 76 |
| D 40 S | 1.250 | 2.430 | 55 | 75 |
| D 50 S | 1.250 | 3.060 | 90 | 75 |
| D 52 S | 1.100 | 3.120 | 110 | 77 |
| D 62 H | 1.500 | 3.400 | 160 | 81 |
| D 62 S | 1.100 | 3.500 | 110 | 79 |
| D 65 S | 1.250 | 3.900 | 90 | 76 |
| D 76 H | 1.500 | 4.440 | 160 | 79 |
| D 76 S | 1.100 | 4.550 | 160 | 77 |
| D 80 S | 1.250 | 4.800 | 160 | 76 |
| D 98 H | 1.500 | 5.600 | 250 | 81 |
| D 98 S | 1.100 | 5.800 | 200 | 79 |
| D 152 H | 1.500 | 8.700 | 400 | 81 |
| D 152 S | 1.000 | 8.900 | 315 | 80 |

Product is subject to technical change

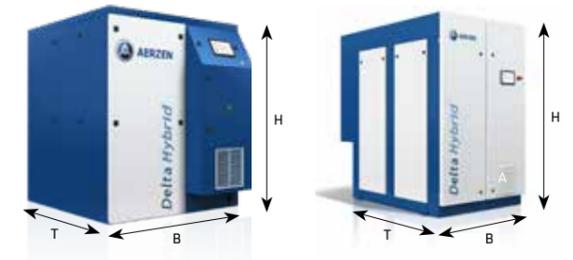
* corresponds to the delivered volume flow measured according to ISO 1217 and converted to the reference suction conditions according to the (informative) enclosure F of ISO 1217 [inlet pressure = 1.0 bar / inlet temperature = 20°C, rH = 0%]

** Machine noise with acoustic hood and connected, insulated piping, tolerance ± 2 dB(A)

Delta Hybrid w/o starter



Delta Hybrid with integrated starter



Dimensions and weights (subject to technical changes)

| Size | B mm | T mm | H mm | Nominal size DN | Weight with acoustic hood kg |
|-----------|-------|-------|-------|-----------------|------------------------------|
| D 12 S/H | 1.250 | 1.350 | 1.500 | 100 | 590 |
| D 13 S | 1.250 | 1.350 | 1.500 | 100 | 460 |
| D 17 S | 1.250 | 1.350 | 1.500 | 125 | 470 |
| D 24 S/H | 1.250 | 1.350 | 1.500 | 125 | 635 |
| D 25 S | 1.250 | 1.350 | 1.500 | 125 | 570 |
| D 30 S | 1.250 | 1.350 | 1.500 | 150 | 580 |
| D 36 S/H | 1.500 | 1.800 | 1.980 | 150 | 1.098 |
| D 40 S | 1.300 | 1.700 | 2.134 | 200 | 1.700 |
| D 50 S | 1.300 | 1.700 | 2.134 | 200 | 1.700 |
| D 52 S | 1.500 | 1.800 | 1.980 | 150 | 1.230 |
| D 62 S/H | 1.700 | 2.055 | 2.111 | 200 | 1.530 |
| D 65 S | 1.500 | 2.200 | 2.436 | 200 | 2.500 |
| D 76 S/H | 1.700 | 2.055 | 2.111 | 200 | 1.998 |
| D 80 S | 1.500 | 2.200 | 2.436 | 250 | 2.500 |
| D 98 S/H | 1.900 | 2.200 | 2.345 | 250 | 2.100 |
| D 152 S/H | 2.100 | 2.850 | 2.345 | 300 | 3.500 |

Weight w/o drive motor

Delta Hybrid with integrated starter

| Size | B mm | T mm | H mm | A mm | B mm | Nominal size DN | Weight with acoustic hood kg |
|----------|-------|-------|-------|------|------|-----------------|------------------------------|
| D 12 H | 1.850 | 1.350 | 1.500 | 311 | 375 | 100 | 740 |
| D 13 S | 1.250 | 1.350 | 1.500 | 321 | 352 | 100 | 510 |
| D 17 S | 1.250 | 1.350 | 1.500 | 321 | 352 | 125 | 520 |
| D 24 H | 1.850 | 1.350 | 1.500 | 311 | 375 | 125 | 785 |
| D 25 S | 1.250 | 1.350 | 1.500 | 323 | 352 | 125 | 630 |
| D 30 S | 1.250 | 1.350 | 1.500 | 323 | 352 | 150 | 640 |
| D 36 S/H | 2.100 | 1.800 | 1.900 | 377 | 435 | 150 | 1.400 |
| D 40 S | 1.300 | 1.700 | 2.134 | 365 | 361 | 200 | 1.700 |
| D 50 S | 1.300 | 1.700 | 2.134 | 365 | 361 | 200 | 1.700 |
| D 52 S | 2.100 | 1.800 | 1.900 | 377 | 435 | 150 | 1.400 |
| D 62 S/H | 2.300 | 2.055 | 2.111 | 376 | 525 | 200 | 1.880 |
| D 65 S | 1.500 | 2.200 | 2.436 | 365 | 405 | 200 | 2.500 |
| D 76 S | 2.300 | 2.055 | 2.111 | 376 | 525 | 200 | 2.350 |
| D 80 S | 1.500 | 2.200 | 2.436 | 365 | 405 | 250 | 2.500 |

AERZEN. 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

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AERZEN
EXPECT PERFORMANCE