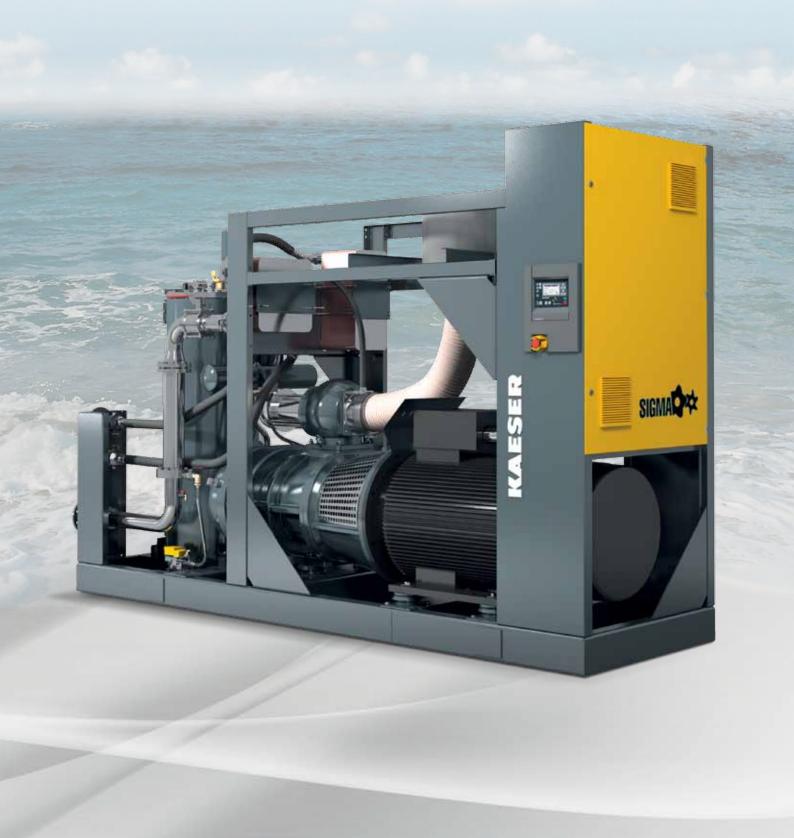


Marine Compressed Air Systems

More air, more savings ... SIGMA PROFILE ☆☆



Marine air systems

Full compressed air power ahead

KAESER KOMPRESSOREN offers a complete range of rotary screw compressors, blowers and air treatment components specifically designed for marine compressed air use, including application-specific service air, compressed air for nitrogen generation and blower air for wastewater treatment systems on large cruise ships. KAESER marine products are certified by all of the marine classification societies and are valued as much for their reliability as they are for their energy efficiency and long service life.

Dependable and durable

Compressed air production is a matter of trust. Above all, this key energy source has to be there when you need it. The outstanding quality of KAESER compressors and rotary blowers provides you with that peace of mind. Strong vertical integration combined with an optimised mix of seasoned experience and creative technical innovation strength stand behind these quality aspirations.

Energy efficient

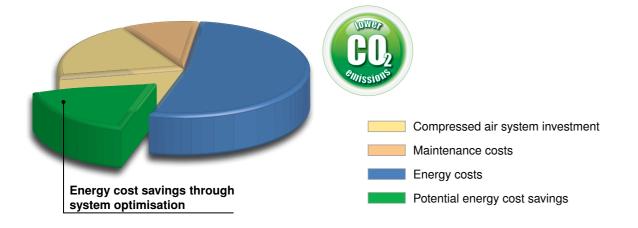
In view of continuously soaring energy prices, it's no surprise that efficient energy usage is becoming an evermore important consideration in today's business environment. KAESER KOMPRESSOREN recognised this very early on, and the name is now synonymous with energy-efficient systems and compressed air solutions. At the heart of every rotary screw compressor lies a premium quality airend equipped with KAESER's renowned SIGMA PROFILE rotors which deliver more air with less energy consumption.

Tailored solutions

Our extensive range of proven, dependable products comprising compressors, air treatment components and rotary blowers is available for every conceivable application, enabling our trained experts to provide a specially tailored compressed air system solution for any requirement and any operating environment.

Made in Germany

The reliability, durability and energy efficiency of KAESER products have not come about by chance, but are the result of rigorous development and precision manufacturing. Every airend and blower block is meticulously built in accordance with KAESER's renowned quality standards by highly skilled workers at the company's factories in Coburg and Gera, located in central Germany.







Nitrogen when you need it

Dependable nitrogen generation



Redundancy and energy savings

The efficient SIGMA PROFILE rotors used in HSD series systems double your savings: Two identical, independently controllable rotary screw compressor packages maximise uptime and generate a dependable supply of compressed air and, in turn, nitrogen.



Certified compressor control

The innovative SIGMA CONTROL 2 compressor controller ensures energy-efficient operation and optimised communication capability – in a choice of over 30 languages. With its integrated Web server, users can access compressor data via intranet /



Compact and ready-to-run

KAESER rotary screw compressors are compact, ready-to-run powerhouses. An optional variable speed drive with infinitely variable speed control provides additional flexibility and maintains consistent pressure. A quality refrigeration dryer delivers the dried compressed air necessary for nitrogen generation.



Consistent pressure...

...for consistent nitrogen delivery. Operating pressure is reliably maintained within ± 0.1 bar. In turn, the consequent ability to reduce maximum system pressure also reduces energy costs. The relationship between pressure consistency and speed can be viewed directly on the SIGMA CONTROL 2 display.





Efficient generation

More nitrogen, more savings...



Energy saving SIGMA PROFILE

At the heart of every KAESER rotary screw compressor system lies a premium quality airend featuring energy saving SIGMA PROFILE rotors. Operating at low speed, KAESER's airends are equipped with flow-optimised rotors for superior efficiency.



Premium efficiency IE3 motors

The use of premium efficiency IE3 electric drive motors plays a key role in ensuring maximum efficiency of the on-board compressed air production process at all times.



Compact design

Space on ships is at a premium, which is why KAESER developed these compact powerhouses. They may look small in the machine room, but make no mistake, their performance is second to none.



Integrated centrifugal separator

The newly developed KAESER stainless steel centrifugal separator included in the package removes condensate, thereby reducing the workload of downstream dryers and securing their efficiency.

7





Working air

Dependable assistant for every voyage



30 languages: SIGMA CONTROL 2

The SIGMA CONTROL 2 ensures efficient compressor control. The large display, RFID reader and 30 selectable languages ensure simple communication and maximum security. Multiple interfaces for exceptional flexibility. The SD card slot makes updates quick and easy.



Excellent maintenance access

Excellent accessibility to all maintenance and service-relevant components minimises service effort and therefore costs. KAESER KOMPRESSOREN's newly developed centrifugal separator with electronic condensate drain is fitted as standard on ASD-HSD series compressors.



Compact and powerful

AIRCENTER systems are compact, all-in-one compressed air packages comprising a KAESER rotary screw compressor, an energy-saving refrigeration dryer and an integrated air receiver. The AIRCENTER SK 22 shown above has a footprint of only approximately one square metre.



Reliability you can count on

KAESER rotary screw compressors are highly resilient when it comes to extreme operating environments. Even in hot machine room conditions they continue to operate efficiently and dependably. Models suited to ambient temperatures up to 50 and 55 °C (standard: +45 °C) are available.





Low pressure air

Rotary blowers with OMEGA PROFILE ** rotors for marine applications

Clarify, trim, convey

Supply and disposal facilities are required wherever there are people – even if temporarily. That is why appropriately dimensioned wastewater treatment systems are essential on cruise ships where crew and passengers total into the thousands. KAESER KOMPRESSOREN offers durable, energy-efficient, compact rotary blowers in various sizes and ratings to deliver a dependable supply of oxygen to the bacteria cultures in on-board clarifiers.

Rotary blowers are also used in anti-heeling systems which maintain a ship's trim during loading and unloading.

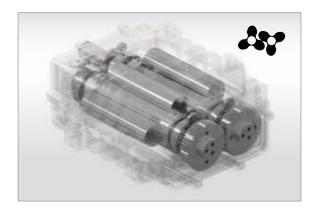
KAESER blower blocks feature high precision 5f 21 spur-ground timing gears with minimal backlash. They play a major role in contributing to the block's outstanding volumetric efficiency. Because spur-ground gears do not generate axial forces, cylinder roller bearings can be used, a feature unique to KAESER blower blocks. Because cylinder roller bearings have ten times the dynamic loading capacity of self-aligning bearings, their service life is significantly longer (100,000 hours). The result: Maximum system availability and minimal maintenance costs.

Moreover, Q 2.5 rotor balancing, as with turbine rotors, results in quieter operation, extended service life and reduced maintenance.



Dependable packages

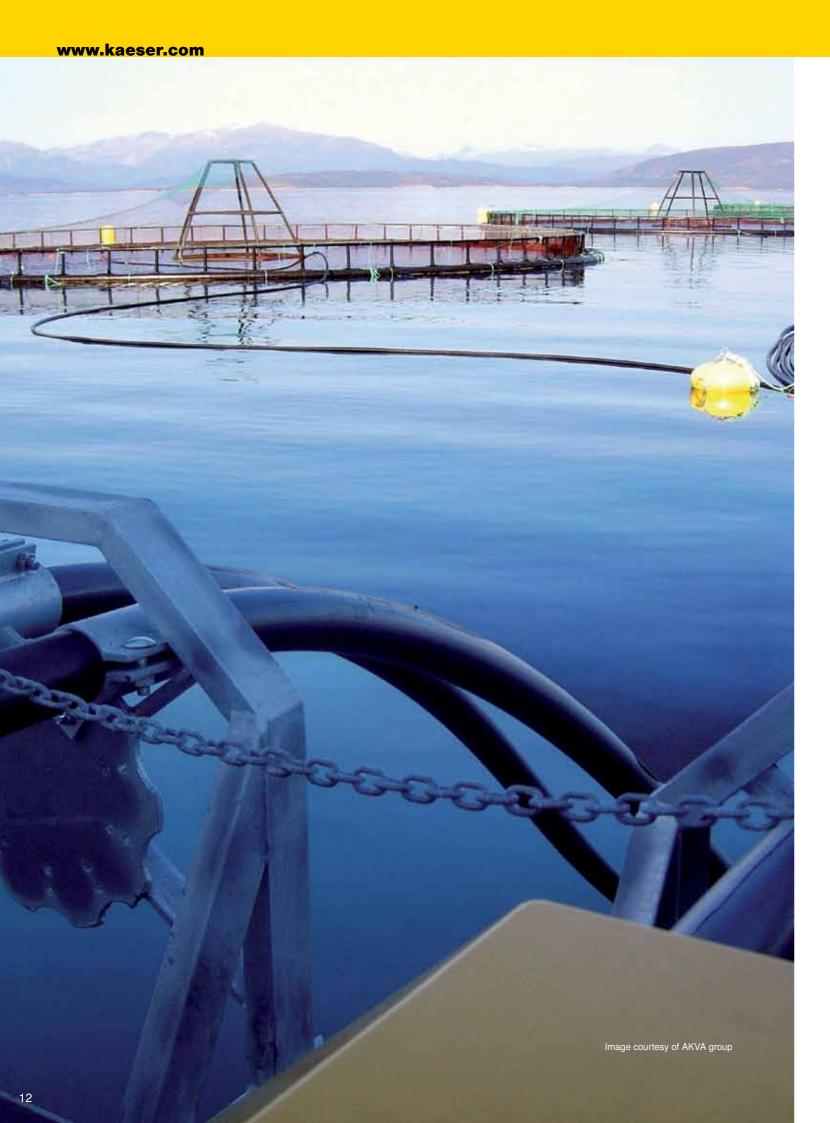
Performing in all climatic conditions and with years of proven dependability, KAESER rotary blowers provide quality water treatment wherever you are.



Robust, durable blower blocks

Precision manufacture, three-lobe rotors, spurground gears and cylinder roller bearings: These are just some of the key factors that ensure the efficiency and durability of KAESER rotary blower blocks.





Fish farming air

Efficient feeding systems

Operators of fish farms, whether on-shore or offshore, rely on a reliable supply of blower and / or compressed air in order to ensure continuous, correctly dosed food distribution.

This is another area where the many advantages of KAESER products score points.

KAESER's comprehensive range of rotary screw compressors and blowers means that the perfect system, or combination of systems, can be precisely tailored to suit any need.

All KAESER blowers and compressors are designed and built to provide maximum durability and reliability. Moreover, impressive energy efficiency helps keep the largest part of total system costs to a minimum, whilst low maintenance requirement reduces costs even further.



Versatile rotary blowers

A suitable KAESER rotary blower is available for every conceivable requirement, whether it be a stand-alone unit or blower station, ready-to-connect package or a unit to be incorporated into a system with a master controller.



Ready-to-run

Ready-to-run COMPACT blowers with OMEGA PRO-FILE rotors include all necessary sensors, a stardelta starter (or OFC frequency converter) and are CE and EMC certified. These systems minimise work and costs required for design, installation, certification, documentation and commissioning.



Efficient rotary screw compressors

KAESER rotary screw compressors and treatment components deliver the right amount of compressed air at the required quality to suit any need. This is also achieved economically thanks to impressive energy efficiency.





Sea-land interface

A smooth transition

Compressed air keeps it moving

Compressed air is the first choice when it comes to moving bulk goods. Whether loading or purging, rotary blowers from KAESER KOMPRESSOREN are reliable, long-term partners for energy efficient air supply.

"Built for a lifetime" also applies to all land-based KAESER rotary screw compressors no matter what the application.

Specialised marine use includes keeping port and fjord entrances free from ice during the winter months for example.



Sound protection for Dolphin & Co.

KAESER portable compressors to provide air bubble curtains installed on wind turbine platform construction vessels to protect whales and dolphins from noise caused by the sound of the battering rams.



Moving bulk goods

KAESER KOMPRESSOREN offers a wide range of rotary blower systems and packages of various capacities for conveying bulk goods. According to requirement, the blower packages include completely integrated power electronics and are delivered ready for connection.



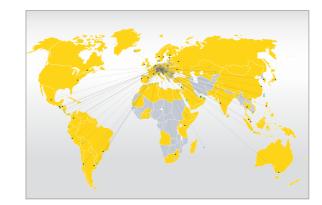
For ice-free ports

Depending on the specific situation, rotary screw compressors or blowers are used to keep port entrances or navigation channels ice-free. If they are made by KAESER KOMPRESSOREN, the same thing applies in both cases: more air, more savings...



Service everywhere

From the high seas to the highest peaks



Global service network

KAESER Service is just a moment away – no matter where you are. Globally networked and coordinated centrally from Coburg, qualified KAESER service specialists are available if needed at the next port of call as soon as the ship has docked.



Computerised parts logistics

The automated parts warehouse in the KAESER Distribution Centre is the lynchpin for rapid despatch of required maintenance and spare parts to all corners of the planet. Fully automated parts identification ensures seamless processing.



Integrated process control

Global networking and data communications mean that diagnostics can be carried out remotely and therefore enable on-demand maintenance of KAESER products. This leads to increased availability and maximises the overall cost-effectiveness of your compressed air supply.



Risk-free genuine KAESER spares

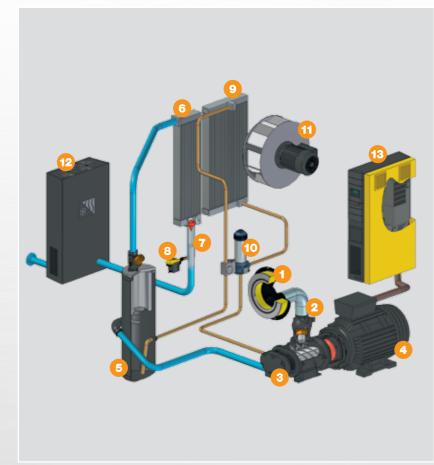
KAESER's service personnel use only genuine maintenance and spare parts with proven long-term quality to ensure functional reliability and long life. Only KAESER original parts guarantee tested quality and optimum air supply performance.

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Rotary screw compressors

Design and features



T SFC version

- Intake filter
- Inlet valve
- Airend
- Orive motor
- 5 Fluid separator tank
- 6 Compressed air aftercooler
- Centrifugal separator
- 8 Condensate drain (ECO DRAIN)
- Fluid cooler
- Fluid filter
- Radial fan
- 12 Integrated refrigeration dryer
- Switching cabinet with integrated SFC frequency converter

Complete unit

Ready-to-run, fully automatic, vibration-isolated, suitable for ambient temperatures up to +55 °C. Service-friendly, compact design. Optionally available with integrated refrigeration dryer and / or integrated frequency converter. Integrated centrifugal separator with condensate drain for preseparation of air moisture (from ASD).

Airend

Genuine KAESER single-stage rotary screw airend with SIGMA PROFILE rotors and cooling-fluid injection for optimised rotor cooling.

Fluid and air flow

Dry-air filter with pre-separation, inlet silencer, pneumatic inlet and vent valves, cooling-fluid separator reservoir with three-stage separator system, pressure release valve, minimum pressure check valve, thermostatic valve

and fluid filter in cooling fluid system, plate-type or shell and tube heat exchanger for fluid and compressed air



cooling, air-cooled to ASD series / air-, water- and seawater-cooling available from BSD (44kW) series.

Electrical components

Premium efficiency IE3 drive motor, special marine version. Control cabinet IP 54 enclosed, control cabinet ventilation, automatic star-delta contactor configuration, overload relay, control transformer. SFC version also equipped with frequency converter.

SIGMA CONTROL 2

Marine-certified compressor control system. "Traffic light" LED indicators show operational status at a glance, plain text display, 30 selectable languages, durable keys with icons, fully automated monitoring and control. Selection of multiple control modes as standard. Interfaces: Ethernet; additional optional communication modules for: Profibus DP, Modbus, Profinet and Devicenet. SD-card slot for datalogging and updates. RFID reader, web server.

Technical Specifications

Standard version (440 V / 60 Hz - 3 Ph)

| Model | Max. operating pressure | FAD *) Complete unit at max. working pressure | | Rated motor power | Dimensions W x D x H | Air connection | Power | supply | Cooling | | Weight |
|---------------------|---------------------------|---|--|--|--|--------------------------------|----------------------------|----------------------------|---------|-------|--|
| | bar | | | | mm | m³/min | 440 V / 60 Hz / 3 Ph | 380 V / 50 Hz / 3 Ph | Air | Water | kg |
| SX 4 | 8 14 | 27 15 | 0,45 0,25 | 3 | 590 x 632 x 970 | G 3/4 | • | 0 | • | _ | 140 |
| SM 9 | 8 14 | 54 33 | 0.90 0.55 | 5.5 | 630 x 762 x 1100 | G 3/4 | • | 0 | • | - | 210 |
| SM 12 | 8 14 | 72 46 | 1.20 0.77 | 7.5 | 630 x 762 x 1100 | G 3/4 | • | 0 | • | - | 220 |
| SM 15 | 8 14 | 90 59 | 1.50 0.98 | 9 | 630 x 762 x 1100 | G 3/4 | • | 0 | • | - | 320 |
| SK 22 | 8 14 | 120 79 | 2.00 1.31 | 11 | 750 x 895 x 1260 | G 1 | • | 0 | • | _ | 312 |
| SK 25 | 8 14 | 150 107 | 2.50 1.78 | 15 | 750 x 895 x 1260 | G 1 | • | 0 | • | - | 320 |
| ASK 28 | 8 14 | 169 111 | 2.81 1.85 | 15 | 800 x 1110 x 1530 | G 1 1/4 | • | 0 | • | - | 485 |
| ASK 34 | 8 14 | 205 145 | 3.41 2.41 | 18,5 | 800 x 1110 x 1530 | G 1 1/4 | • | 0 | • | - | 505 |
| ASK 40 | 8 | 241 171 | 4.01 | 22 | 800 x 1110 x 1530 | G 1 1/4 | • | 0 | • | _ | 525 |
| ASD 50 | 8 | 277 182 | 4.62 3.04 | 25 | 1460 x 900 x 1530 | G 1 1/4 | • | 0 | • | _ | 685 |
| ASD 60 | 8 | 325 | 5.42 | 30 | 1460 x 900 x 1530 | G 1 1/4 | • | 0 | • | _ | 700 |
| BSD 75 | 14 8 | 211 401 | 3.52 6.69 | 37 | 1590 x 1090 x 1750 | G 1 1/2 | • | 0 | 0 | • | 940 |
| BSD 83 | 8 | 269 491 | 4.48 8.19 | 45 | 1590 x 1090 x 1700 | G 1 1/2 | • | 0 | 0 | • | 970 |
| CSD 105 | 8 | 317 587 | 5.29 9.79 | 55 | 1760 x 1110 x 1935 | G 2 • | | 0 | 0 | • | 125 |
| CSD 125 | 8 | 390 709 | 6.50 | 75 | 1760 x 1110 x 1935 | G 2 | • | 0 | 0 | • | 128 |
| CSDX 140 | 8 | 470 843 | 7.84 14.04 | 75 | 2110 x 1290 x 1950 | G 2 | • | 0 | 0 | • | 174 |
| CSDX 165 | 14 8 | 570 963 | 9.50 16.05 | 90 | 2110 x 1290 x 1950 | G 2 | • | 0 | 0 | • | 183 |
| DSD 202 | 14 8 | 684 1143 | 11.40 19.05 | 110 | 2300 x 1495 x 1930 ** | DN 65 / PN 16 | • | 0 | 0 | • | 300 |
| | 14 8 | 900 1422 | 15.00 23.70 | | 2300 x 1495 x 1930 ** 2300 x 1495 x 1930 ** | | | | | | 320 |
| DSD 238 | 14 | 1050 | 17.50 | 132 | 2300 x 1495 x 1930 ** | DN 65 / PN 16 | • | 0 | 0 | • | 330 |
| DSD 302 DSDX 302 | 8 | 1650 1710 | 27.50 28.50 | 160 160 | 2300 x 1495 x 1930 ** 2550 x 1705 x 1930 ** | DN 65 / PN 16 DN 80 / PN 16 | • | 0 | 0 | • | 340 390 |
| ESD 352 | 8 | 2148 | 35.80 | 200 | 3525 x 1100 x 2250 ** | DN 80 / PN 16 | • | 0 | _ | • | 415 |
| | 14 8 | 1400 2556 | 23.33 42.60 | 250 | 3525 x 1100 x 2250 | 2.1.007.11.10 | | | | | 425 |
| ESD 442 | 8 14 14 14 | 2960 1640 2080 2485 | 49.40 27.33 34.67 41.42 | 315 250 250 315 | 3650 x 1100 x 2250 3525 x 1100 x 2250 3525 x 1100 x 2250 3525 x 1100 x 2250 3650 x 1100 x 2250 | DN 80 / PN 16 | • | 0 | - | • | 425 425 425 440 |
| FSD 571 | 8 | 3388 | 56.47 | 315 | 3010 x 2177 x 2360 | DN 125 / PN 16 | • | 0 | - | • | 600 |
| HSD 651 | 8 | 3858 | 64.30 | 160 200 | 3510 x 2000 x 2250 | DN 150 / PN 16 | • | 0 | - | • | 790 |
| HSD 711 | 8 14 | 4296 2800 | 71.60 46.67 | 200 200 200 | 3510 x 2000 x 2250 | DN 150 / PN 16 | • | 0 | - | • | 830 |
| HSD 761 | 8 14 | 4704 3040 | 78.40 50.67 | 250 200 200 | 3510 x 2000 x 2250 | DN 150 / PN 16 | • | 0 | - | • | 840 |
| HSD 831 | 8 14 14 14 14 | 5112 3276 3714 4152 4425 4698 | 85.20 54.67 61.92 69.25 73.80 78.30 | 250 250 200 200 250 200 250 250 315 250 315 315 | 3510 x 2000 x 2250 3510 x 2000 x 2250 3510 x 2000 x 2250 3510 x 2000 x 2250 3565 x 2000 x 2250 3565 x 2000 x 2250 | DN 150 / PN 16 | • | 0 | - | • | 850 850 870 870 880 890 |

⁷⁾ FAD complete system as per ISO 1217 : 2009, Annex C: absolute inlet pressure 1 bar (a), cooling- and air inlet temperature 20 °C

Water-cooled version

Standard ○ Option – Not available



Technical Specifications

SFC - Version with variable speed drive (440 V / 60 Hz - 3 Ph)

| Model | Max. operating pressure | FAD *) Complete unit at max. working pressure | | Rated motor power | Dimensions W x D x H | Air connection | | wer | Cooling | | Weight |
|--------------|-------------------------|---|---|-------------------------|-------------------------|----------------|----------------------------|----------------------------|---------|-------|------------------------------|
| | bar | m³/h | m³/min | kW | mm | m³/min | 440 V / 60 Hz / 3 Ph | 380 V / 50 Hz / 3 Ph | Air | Water | kg |
| SK 22 SFC | 8 14 | 37-119 33-82 | 0.6-2.0 0.6-1.4 | 11 | 750 x 895 x 1260 | G 1 | • | 0 | • | - | 330 |
| SK 25 SFC | 8 14 | 48-157 49-115 | 0.9-3.3 0.8-1.9 | 15 | 750 x 895 x 1260 | G 1 | • | 0 | • | - | 340 |
| ASK 34 SFC | 8 14 | 56-200 50-144 | 0.9-3.3 0.8-2.4 | 18.5 | 800 x 1110 x 1530 | G 1 1/4 | • | 0 | • | - | 530 |
| ASK 40 SFC | 8 14 | 56-235 50-174 | 0.9-3.9 0.8-2.9 | 22 | 800 x 1110 x 1530 | G 1 1/4 | • | 0 | • | - | 550 |
| ASD 50 SFC | 8 13 | 63-287 55-214 | 1.1-4.8 0.9-3.6 | 25 | 1540 x 900 x 1530 | G 1 1/4 | • | 0 | • | - | 705 |
| ASD 60 SFC | 8 14 | 79-336 54-221 | 1.3-5.6 0.9-3.7 | 30 | 1540 x 900 x 1530 | G 1 1/4 | • | 0 | • | - | 765 |
| BSD 75 SFC | 8 14 | 101-456 68-326 | 1.7-7.6 1.1-5.4 | 37 | 1665 x 1090 x 1700 | G 1 1/2 | • | 0 | 0 | • | 1080 |
| CSD 85 SFC | 8 14 | 116-482 64-344 | 2.0-8.0 1.1-5.7 | 45 | 1760 x 1110 x 1935 | G 2 | • | 0 | 0 | • | 1220 |
| CSD 105 SFC | 8 14 | 130-583 79-411 | 2.2-9.7 1.3-6.9 | 55 | 1760 x 1110 x 1935 | G 2 | • | 0 | 0 | • | 1340 |
| CSD 125 SFC | 8 14 | 170-742 105-530 | 2.8-12.4 1.8-8.8 | 75 | 1760 x 1110 x 1935 | G 2 | • | 0 | 0 | • | 1360 |
| CSDX 140 SFC | 8 14 | 202-807 111-585 | 3.4-13.5 1.9-9.8 | 75 | 2110 x 1290 x 1950 | G 2 | • | 0 | 0 | • | 1758 |
| CSDX 165 SFC | 8 14 | 229-978 159-708 | 3.8-16.3 2.7-11.8 | 90 | 2110 x 1290 x 1950 | G 2 | • | 0 | 0 | • | 1975 |
| DSD 202 SFC | 8 14 | 252-1212 234-872 | 4.2-20.2 3.9-14.5 | 110 | 2905 x 1495 x 1930 ** | DN 65 / PN 16 | • | 0 | 0 | • | 3660 |
| DSD 238 SFC | 8 14 | 354-1368 234-939 | 5.9-22.8 3.9-15.7 | 132 | 2905 x 1495 x 1930 ** | DN 65 / PN 16 | • | 0 | 0 | • | 3800 |
| DSDX 302 SFC | 8 14 | 388-1692 206-1137 | 6.5-28.2 3.4-19.0 | 160 | 3155 x 1945 x 2040 ** | DN 80 / PN 16 | • | 0 | 0 | • | 4530 |
| ESD 352 SFC | 8 14 | 512-2111 305-1470 | 8.5-35.2 5.1-24.5 | 200 | 3100 x 2000 x 2040** | DN 125 / PN 16 | • | 0 | 0 | • | 5705 |
| ESD 442 SFC | 8 14 | 607-2422 361-1680 | 10.1-40.4 6.0-28.0 | 250 | 3100 x 2000 x 2040 | DN 125 / PN 16 | • | 0 | 0 | • | 5725 |
| FSD 571 SFC | 8 14 | 795-3292 552-2454 | 13.3-54.9 9.2-40.9 | 315 | 3610 x 2215 x 2260 | DN 125 / PN 16 | • | 0 | 0 | • | 7510 |
| HSD 761 SFC | 8 | 699-4235 | 11.7-70.7 | 250 / 160 | 4370 x 2145 x 2250 | DN 150 / PN 16 | • | 0 | - | • | 9450 |
| HSD 831 SFC | 8 14 14 14 | 699-4924 468-3498 468-3750 468-3912 | 11.7-82.0 7.8-58.3 7.8-62.5 7.8-65.2 | 250 / 200 250 / 200 | 4370 x 2145 x 2250 | DN 150 / PN 16 | • | 0 | - | • | 9950 9950 9950 9950 |

⁷⁾ FAD complete system as per ISO 1217: 2009, Annex C: absolute inlet pressure 1 bar (a), cooling- and air inlet temperature 20 °C

Technical Specifications

T – version with integrated refrigeration dryer (refrigerant R 134a) (440 V / 60 Hz - 3 Ph)

| Model | Max. operating pressure | ng Complete unit at max. | | Rated motor power | Dryer power consumption | Pressure dew point | Dimensions W x D x H | Air Power connection supply | | Cooling | | Weight | |
|------------|-------------------------|--------------------------|--------|-------------------------|-------------------------|--------------------------|-------------------------|-----------------------------|----------------------------|----------------------------|-----|--------|------|
| | bar | m³/h | m³/min | kW | kW | °C | mm | m³/min | 440 V / 60 Hz / 3 Ph | 380 V / 50 Hz / 3 Ph | Air | Water | kg |
| SM 9 T | 8 | 54 | 0.90 | 5.5 | 0.54 | 3 | 630 x 1074 x 1100 | G 3/4 | • | 0 | • | - | 275 |
| SM 12 T | 8 | 72 | 1.20 | 7.5 | 0.54 | 3 | 630 x 1074 x 1100 | G 3/4 | • | 0 | • | - | 285 |
| SM 15 T | 8 | 90 | 1.50 | 9 | 0.54 | 3 | 630 x 1074 x 1100 | G 3/4 | • | 0 | • | - | 295 |
| SK 22 T | 8 | 120 | 2.00 | 11 | 0.8 | 3 | 750 x 1240 x 1260 | G 1 | • | 0 | • | - | 387 |
| SK 25 T | 8 | 150 | 2.50 | 15 | 0.8 | 3 | 750 x 1240 x 1260 | G 1 | • | 0 | • | - | 395 |
| ASK 28 T | 8 | 169 | 2.81 | 15 | 1.1 | 3 | 800 x 1460 x 1530 | G 1 | • | 0 | • | - | 580 |
| ASK 34 T | 8 | 205 | 3.41 | 18.5 | 1.1 | 3 | 800 x 1460 x 1530 | G 1 | • | 0 | • | - | 600 |
| ASK 40 T | 8 | 241 | 4.01 | 22 | 1.64 | 3 | 800 x 1460 x 1530 | G 1 1/4 | • | 0 | • | - | 620 |
| ASD 50 T | 8 | 277 | 4.62 | 25 | 1.64 | 3 | 1770 x 900 x 1530 | G 1 1/4 | • | 0 | • | - | 760 |
| ASD 60 T | 8 | 325 | 5.42 | 30 | 1.64 | 3 | 1770 x 900 x 1530 | G 1 1/4 | • | 0 | • | - | 815 |
| BSD 75 T | 8 | 401 | 6.69 | 37 | 2.1 | 3 | 1990 x 1090 x 1700 | G 1 1/2 | • | 0 | 0 | • | 1065 |
| BSD 83 T | 8 | 491 | 8.19 | 45 | 2.1 | 3 | 1990 x 1090 x 1700 | G 1 1/2 | • | 0 | 0 | • | 1085 |
| CSD 105 T | 8 | 587 | 9.79 | 55 | 2 | 3 ** | 2160 x 1110 x 1935 | G 2 | • | 0 | 0 | • | 1420 |
| CSD 125 T | 8 | 709 | 11.82 | 75 | 2.8 | 3 ** | 2160 x 1110 x 1935 | G 2 | • | 0 | 0 | • | 1480 |
| CSDX 140 T | 8 | 843 | 14.04 | 75 | 3.2 | 3 ** | 2510 x 1290 x 1950 | G 2 | • | 0 | 0 | • | 2005 |
| CSDX 165 T | 8 | 936 | 16.05 | 90 | 3.2 | 3 ** | 2510 x 1290 x 1950 | G 2 | • | 0 | 0 | • | 2100 |
| DSD 202 T | 8 | 1143 | 19.05 | 110 | 4.4 | 3 ** | 3310 x 1495 x 2040 | DN 65 / PN 16 | • | 0 | 0 | • | 3550 |
| DSD 238 T | 8 | 1422 | 23.70 | 132 | 4.4 | 3 ** | 3310 x 1495 x 2040 | DN 65 / PN 16 | • | 0 | 0 | • | 3770 |

⁷⁾ FAD complete system as per ISO 1217 : 2009, Annex C: absolute inlet pressure 1 bar (a), cooling- and air inlet temperature 20 °C ⁻⁷⁾ Dryer water-cooled

[●] Standard ○ Option – Not available

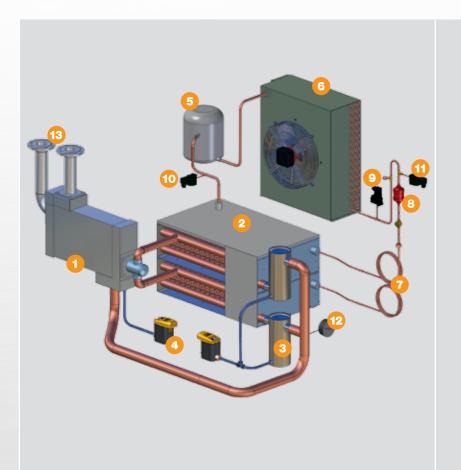
[&]quot;') Air-cooled dryer pressure dew point with T_s=20 °C and 30% relative humidity; water-cooled dryer pressure dew point with T_s=45 °C; 55% relative humidity (cooling water inlet 30 °C)

• Standard O Option – Not available

KAESER COMPRESSORS

Refrigeration dryers

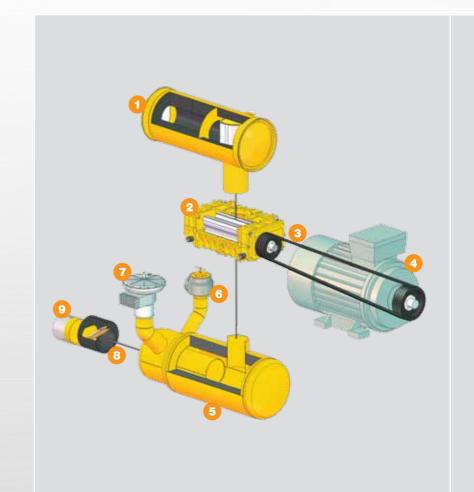
Design and features



- 1 Air / air heat exchanger
- 2 Air / refrigerant heat exchanger with thermal mass
- 3 Condensate separator
- Condensate drain (ECO DRAIN)
- 5 Refrigerant compressor
- 6 Condenser
- Capillary tubes
- Filter/dryer
- 9 High pressure switch
- 10 Low pressure switch
- 11 Fan pressure switch
- Pressure dew point indicator
- Compressed air inlet / outlet

Rotary Blowers

Design and features



- 1 Inlet silencer
- Blower block
- 3 V-belt
- 4 Premium efficiency control
- Compressed air silencer
- 6 Pressure relief valve
- Pressure control valve
- Check valve
- Expansion joint

General design

Compact tower construction with removable side panels, all materials used are CFC-free; all cold components are insulated; the built-in control cabinet is enclosure-protected to IP 54, air to air heat exchanger, condensate separation system, automatic condensate drain.

Refrigerant circuit

Hermetically-sealed refrigerant circuit features large heat-exchanger surface area and service valves; energy saving control.



Complete system

Ready for operation, fully automatic, vibration-isolated, optionally available with integrated control cabinet.

Omega Control

The OMEGA CONTROL monitors all operational parameters, displays data in plain text and is able to communicate with master control systems and centralised control systems.

Blower block

Single-stage rotary blower block, finebalanced rotors, rotor tips with integrated sealing strips, spur-ground timing gears, gear chamber with oil charge, durable bearings, labyrinth seals. V-belt drive with automatic belt tensioning.

Electrical components

Premium efficiency IE3 drive motor, special marine version. Available with refrigeration dryer IP 54 enclosure

protection, control cabinet ventilation. Automatic star-delta contactor configuration, overload relay. control transformer. SFC version also equipped with frequency converter. Optionally available with integrated Omega Control for monitoring of operating parameters.



KAESER – The world is our home

As one of the world's largest manufacturers of rotary screw compressors, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners in over 100 countries.

With innovative products and services, KAESER KOMPRESSOREN's experienced consultants and engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency. Moreover, the decades of knowledge and expertise from this industry-leading system provider are made available to each and every customer via the KAESER group's global computer network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that all products operate at the peak of their performance at all times and provide maximum availability.

