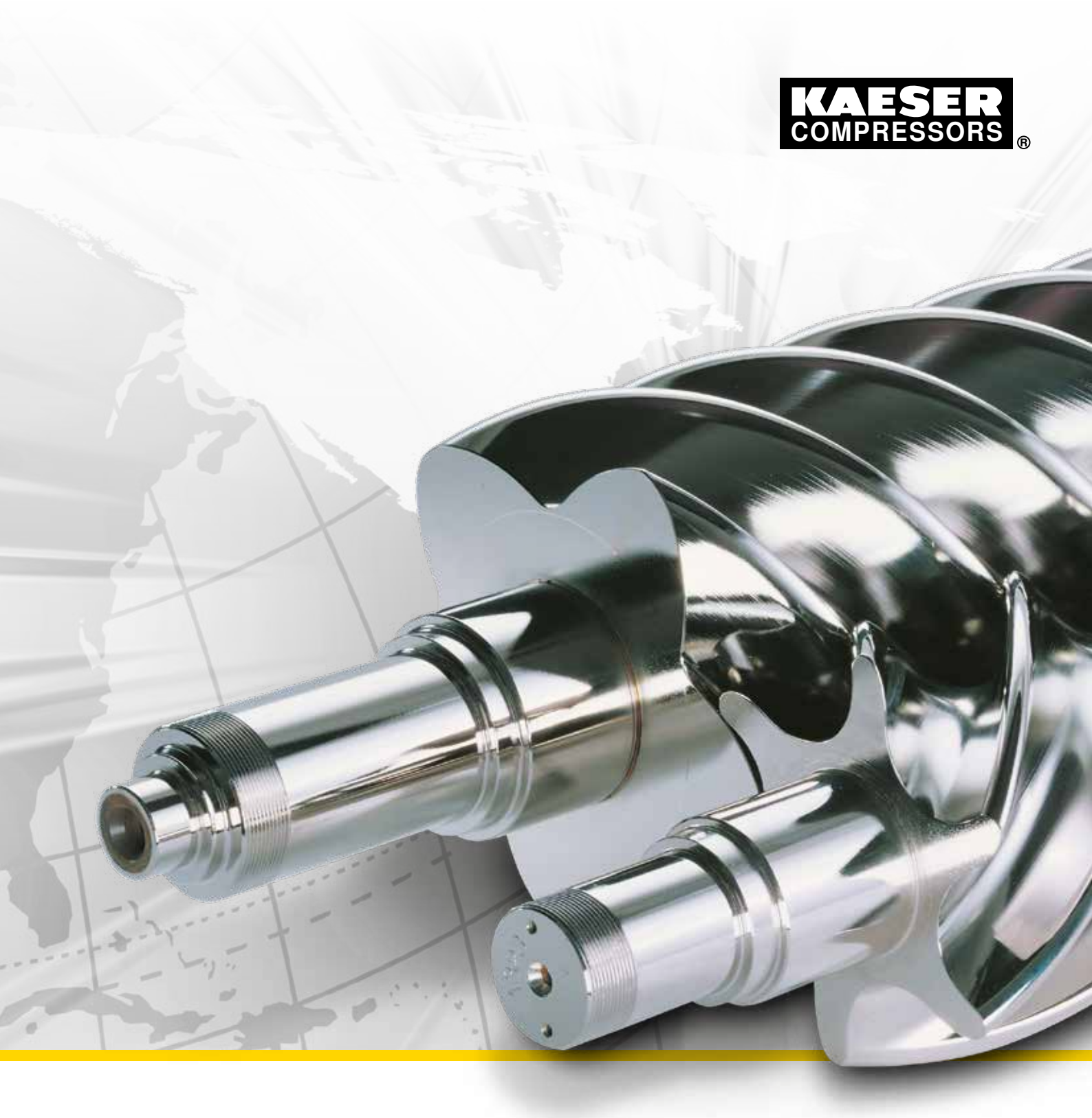
KAESER COMPRESSORS®



Rotary Screw Compressors

SX–HSD Series

With the world-renowned SIGMA PROFILE

Flow rate: 0.26 to 86 m^3/min, Pressures 5.5 to 15 bar

www.kaeser.com

KAESER KOMPRESSOREN – The global compressed air systems provider

KAESER was established in 1919 as a machine workshop, but started on the road to becoming one of the world's leading compressed air systems providers in the 1950s when founder, Carl Kaeser Sr., made the decision to start manufacturing reciprocating compressors. The breakthrough on the road to today's market-leading position among the world's top compressed air system suppliers came when KAESER developed the rotary screw airend featuring the SIGMA PROFILE.

With the expertise and commitment of approximately 5000 dedicated employees worldwide, KAESER KOMPRESSOREN today ranks amongst the world's largest and most successful compressor manufacturers, exporting compressed air system equipment to almost every corner of the planet.

Main plant, Coburg

The KAESER headquarters in Coburg currently employs approximately 2200 people. The facility covers an area of over 150,000 m² and produces KAESER's extensive range of compressors. All locations in the international KAESER group are linked by the very latest information and network technology.

Contents

More compressed air for less energy consumption

KAESER SIGMA PROFILE

Developed by KAESER and continuously enhanced ever since, the KAESER SIGMA PROFILE achieves power savings of up to 15 percent compared with conventional screw airend rotor profiles.

All KAESER rotary screw airends feature this energy-saving rotor profile and are designed to ensure maximum energy efficiency.

The generously-sized, precision-aligned roller bearings and close-tolerance machining guarantee long service life and outstanding reliability.

Energy-saving compressor airend with SIGMA PROFILE rotors

A specific drive power can be used to turn a smaller airend at high speed or a larger airend at slow speed. Larger, lower speed airends are more efficient and deliver more compressed air for the same drive power.
This is why KAESER builds airends with the slowest drive speeds possible. Every KAESER rotary screw compressor quickly pays for itself through significant savings in energy costs.

Energy saving controllers:
SIGMA CONTROL 2 and SIGMA CONTROL BASIC

The SIGMA CONTROL 2 features a highly flexible modular design, which allows the basic standard elements of this versatile control system to be adapted to suit the needs of any rotary screw compressor from the extensive range of KAESER KOMPRESSOREN. Comprising a main control unit and separate input/output modules, this modular concept therefore enhances communication and user-friendliness.

Internet capability

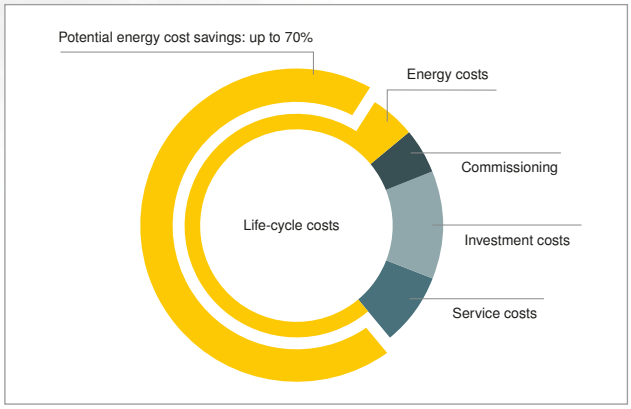
The SIGMA CONTROL 2 is equipped with its own web server, making it possible to communicate with the compressor via Intranet / Internet. Operating data and maintenance and alarm messages can therefore be viewed, with password protection, from any PC running a standard Internet browser. Amongst other advantages, this feature simplifies compressor operation and maintenance.

Low life-cycle costs

Energy costs taken over the lifetime of any compressor add up to many times that of the initial capital cost, which can make any purchase price difference a false economy. Efficiency and reliability are vital in the production of compressed air and KAESER achieves these objectives with quality, durable components that are built to last. Energy-saving KAESER rotary screw compressors can help users to significantly reduce their compressed air costs.

Benefit the environment and save costs with heat recovery:

Reusable heat generated during compressed air production represents significant potential savings, since 100 percent of the energy fed to a compressor is converted into heat. This is energy that can be utilised. In fact, up to 96 % of the energy that is used to produce compressed air remains available for reuse. This not only enables huge annual financial savings, but also helps to considerably reduce CO_2 emissions. The scale of the savings effect depends on the size of the compressors and the primary energy source that is used (electricity, gas, fuel oil). Moreover, many older compressor models can even be retrofitted to provide heat recovery.



Energy-efficiency: the essential requirement

Investment and service costs account for only a small part of a compressor's total life-cycle costs. Since energy accounts for the lion's share of those costs, it's wise to save with KAESER Life-Cycle Management. KAESER has been committed to minimising your energy costs for compressed air production for over 40 years. We also have the bigger picture in clear focus when it comes to service and maintenance, as well as maximum compressed air supply availability.

KAESER rotary screw compressors with belt drive – to 22 kW

Flexible KAESER belt drive

KAESER rotary screw compressors with belt drive provide outstanding efficiency and reliability. KAESER KOMPRESSOREN was one of the first compressor manufacturers to introduce the V-belt drive system. The KAESER drive is characterised by an automatic tensioning device* that ensures constant transmission efficiency. This, of course, reduces maintenance costs.

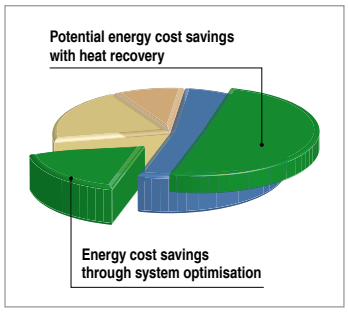
*) SX series models are equipped with a flat drive belt that does not require additional tensioning.

How KAESER rotary screw compressors work

Atmospheric air is drawn through the inlet air filter, cleaned, and then passes into the airend where it is compressed. Specially developed SIGMA FLUID is injected into the airend to serve as coolant, lubricant and sealant. Under normal conditions the air reaches a temperature of only approx. 80 °C during compression. The compressed air is then separated from the cooling fluid (ca. < 2 mg/m³) in the separator and from there passes through the minimum pressure valve to the aftercooler. The separated, cooled and filtered cooling fluid is re-injected into the airend. In the aftercooler the air is cooled down to between 5 and 10 K above ambient and most of the moisture carried in the air is consequently removed before the air finally leaves the compressor at the outlet.

Compressors with belt drive:

Series: SX–ASK
Motor power: 2.2 to 22 kW
Flow rate: 0.26 to 4.65 m³/min
Standard pressures: 5.5 to 15 bar(g)



Save energy with the KAESER SIGMA PROFILE

Every KAESER rotary screw airend is equipped with energy-saving SIGMA PROFILE rotors. Components manufactured to the highest standards and precision aligned roller-bearings ensure long service life with maximum reliability.

Compressed air system investment · Energy costs · Maintenance costs · Energy cost saving potential

SIGMA CONTROL 2

The control unit features an easy to read display and durable input keys; all relevant information can be viewed at a glance. User-friendliness is further enhanced by the logical menu structure and the ability to display data in any one of 30 selectable languages.

Automatic belt tensioning

The automatic belt tensioning device* ensures high transmission efficiency from the motor to the airend. This saves energy and contributes to the superior reliability of the compressor.

*) Excluding SX series models

Cooling air filter mats

Ambient air used for cooling is contaminated to some degree, but the high performance filter mats through which the air is drawn into the cabinet prevent the cooler from clogging.

IE3 energy saving motors

Needless to say, KAESER rotary screw compressors (from SM series upwards) are equipped with energy-saving, premium efficiency IE3 drive motors.

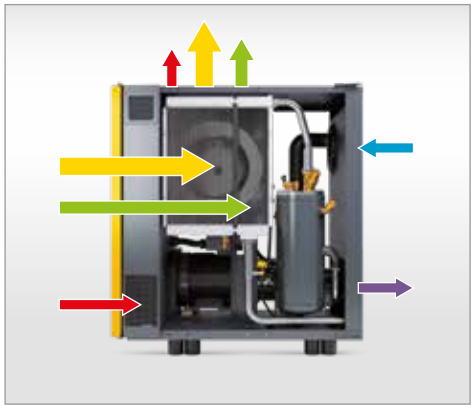
KAESER rotary screw compressors with 1:1 drive – to 500 kW

Why 1:1 drive?

In compressed air packages featuring 1:1 direct drive, the motor drives the airend directly without transmission loss via a maintenance-free coupling. 1:1 direct drive rotary screw compressors provide outstanding performance and enable significant savings. KAESER's comprehensive range of specially designed airends are manufactured and developed to meet every compressed air user's needs.

Triple savings with 1:1 drive:

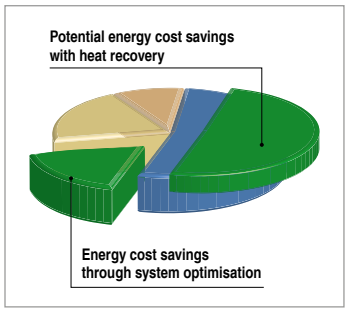
- No power transmission losses.
- Large, low speed airends provide more air for less energy consumption.
- Reduced maintenance costs.



Unique cooling air flow

KAESER's unique cooling air flow concept provides significant advantages compared to conventional systems: The air is drawn in via the cooler to the cooler cabinet and is directly exhausted upwards. Consequently, the inside of the unit remains untouched by the main cooling air flow and contaminant particles contained in the air collect on the air intake side of the cooler. Clogging is easily noticed and quickly cleaned off without the need for any dismantling work. Operational reliability is improved and maintenance requirement is significantly reduced.

Aftercooling
Fluid cooling
Compressor intake air
Drive motor cooling air
Compressed air outlet



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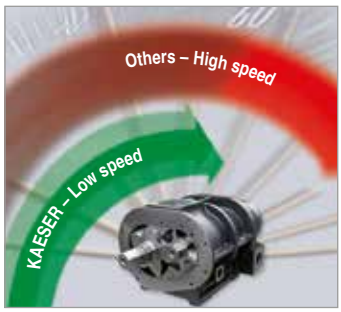
Compressed air system investment ■ Energy costs ■ Maintenance costs
■ Potential energy cost savings

SIGMA CONTROL 2

The control unit features an easy to read display and durable input keys; all relevant information can be viewed at a glance. User-friendliness is further enhanced by the logical menu structure coupled with the ability to display data in any one of 30 selectable languages.



Low speed operation

Larger, low-speed airends are more efficient, delivering more compressed air for the same drive power than smaller, high-speed units. Low speeds also mean less wear and lower maintenance costs due to lower compression temperatures.

Energy-saving 1:1 drive

The motor and airend are joined by the coupling and its housing to form a compact and durable unit that is virtually maintenance-free. Energy consumption is significantly reduced, because the KAESER direct drive does not incur any transmission losses.

SUPER PREMIUM EFFICIENCY IE4 MOTOR

Compressors with 1:1 drive

Series: ASD - HSD
Motor power: 18.5 to 500 kW
Flow rate: 2.09 to 86 m³/min
Standard pressures: 5.5 to 15 bar(g)

Electronic Thermo Management

The innovative Electronic Thermo Management (ETM) system dynamically controls fluid temperature to provide reliable prevention of condensate accumulation. This enhances energy efficiency, for example, by enabling heat recovery to be precisely tailored to meet customers' exact needs.
(ASD – HSD series)

KAESER rotary screw compressors
All-in-one systems – to 22 kW

Space-saving combination of rotary screw compressor and refrigeration dryer

With KAESER's intelligent system design, the compressor and refrigeration dryer are both completely separate, independently functioning modules. This protects the dryer from exposure to heat from the compressor package thereby enhancing reliability.

Energy saving refrigeration dryer

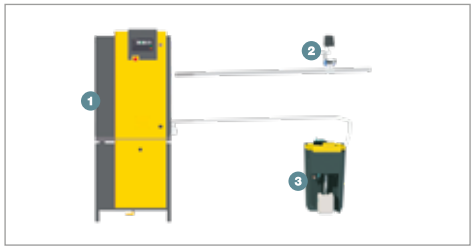
The dryer shut-down feature*, which can be selected via the compressor controller, is linked to compressor operation and significantly reduces energy consumption. All components are generously sized yet are easily accessible for maintenance and servicing work.

*) Not applicable to SXC models.

Compressed air supply system with separate components

1) Rotary screw compressor
2) Refrigeration dryer
3) Air receiver
4) Aquamat condensate treatment
5) Filter
7) ECO-DRAIN condensate drain
8) Air-main charging system

Compressed air supply system with AIRCENTER



1) Rotary screw compressor AIRCENTER all-in-one system
2) Air-main charging system
3) Aquamat condensate treatment

Aircenter and SXC – Compact compressed air systems

The KAESER AIRCENTER is a complete, turnkey system designed for the production of dried compressed air. The arrangement of a KAESER screw compressor with its highly efficient SIGMA PROFILE airend, together with an energy-efficient refrigeration dryer and an air receiver, creates a compact and highly economical package. Furthermore, AIRCENTER and SXC units are far less work-intensive to install than conventional compressed air systems.

SIGMA CONTROL 2

The control unit features an easy to read display and durable input keys; all relevant information can be seen easily. User-friendliness is further enhanced by the logical menu structure and the ability to display data in any one of 30 selectable languages.

Maintenance friendly

All maintenance work can be carried out from one side of the unit. The left housing cover is easily removed to allow excellent component accessibility. Furthermore, there's no need to remove the housing cover to inspect fluid levels or drive belt tension, as these can be checked via a convenient inspection window.

The all-in-one solution with energy-saving rotary screw compressor

There are also significant benefits to saving energy even with smaller rotary screw compressors. For example, a 20 % reduction in energy consumption with a 5.5 kW machine and 1000 operating hours per year translates into an annual saving of 1100 kWh and a 660 kg reduction in CO_2 emissions.

The all-in-one solution with refrigeration dryer

The thermally shielded refrigeration dryer is installed beneath the rotary screw compressor. At the heart of the system is a stainless steel plate heat exchanger with an integrated condensate separator.

The all-in-one solution with air receiver

SXC units are equipped with an internally coated compressed air receiver. The receiver performs three important functions: It cools the compressed air, stores it and pre-separates condensate. Accumulating condensate is reliably and efficiently removed – without pressure loss – via an electronically controlled condensate drain.

PREMIUM EFFICIENCY IE3 MOTOR

All-in-one systems:

Series: SXC
Motor power: 2.2 to 5.5 kW
Flow rate: 0.26 to 0.8 m³/min
Standard pressures: 5.5 to 15 bar(g)
Equipped with SIGMA CONTROL BASIC

Series: AIRCENTER
Motor power: 2.2 to 15 kW
Flow rate: 0.26 to 2.2 m³/min
Standard pressures: 5.5 to 15 bar(g)

Version with refrigeration dryer only:
Series: SX T, SM T, SK T and ASK T
Motor power: 2.2 to 22 kW
Flow rate: 0.26 to 3.5 m³/min
Standard pressures: 5.5 to 15 bar(g)

KAESER rotary screw compressors Modular design with refrigeration dryer – to 132 kW

The innovative ASD T to DSD T series

These advanced rotary screw compressors are versatile, reliable and highly efficient.

With an integrated refrigeration dryer module, these complete air systems provide a dependable supply of quality compressed air.

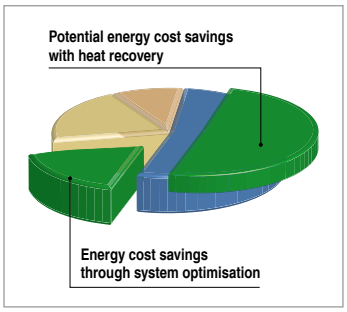
Because the air compressor and refrigeration dryer are installed in separate cabinets, the dryer is protected from exposure to heat from the compressor package thereby enhancing reliability.

Energy saving refrigeration dryer

The dryer shut-down feature, which is linked to compressor operation, significantly reduces energy consumption.

Turnkey operation

Attached to the compressor unit, the refrigeration dryer module is delivered fully connected and ready for operation. The separate cabinet design allows the dryer components to be generously sized yet easily accessible and shields the dryer from exposure to heat arising from the compression process. The high performance cooling system ensures reliable air package operation up to an ambient temperature of +45 °C.



Save energy with the KAESER SIGMA PROFILE

Every KAESER rotary screw airend is equipped with energy-saving SIGMA PROFILE rotors. Components manufactured to the highest standards and precision aligned roller-bearings ensure long service life with maximum reliability.

Compressed air system investment ■ Energy costs ■ Maintenance costs
Energy cost saving potential

SIGMA CONTROL 2

The control unit features an easy to read display and durable input keys; all relevant information can be viewed at a glance. User-friendliness is further enhanced by the logical menu structure and the ability to display data in any one of 30 selectable languages.

Reliable KAESER centrifugal separator

Installed upstream from the refrigeration dryer, the centrifugal separator ensures dependable and efficient condensate removal even under conditions with high ambient temperatures and relative humidity. An electronic level-sensing ECO-DRAIN provides effective condensate drainage without pressure loss.

Dependable condensate drainage

The refrigeration dryer is also equipped with an electronic ECO-DRAIN. The level-controlled condensate drain eliminates the compressed air losses associated with solenoid valve control, which not only saves energy, but also enhances operational reliability.

Space-saving modular construction

The refrigeration dryer module turns a standard rotary screw compressor into a compact compressed air supply system. All components are easily accessible, which simplifies and speeds up all maintenance work.

SUPER PREMIUM EFFICIENCY IE4 MOTOR

Compressors with refrigeration dryer:

Series: ASD T to DSD T
Motor power: 18.5 to 132 kW
Flow rate: 2.09 to 23.8 m³/min
Standard pressures: 5.5 to 15 bar(g)

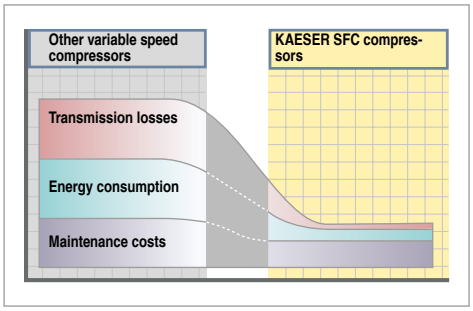
KAESER rotary screw compressors with SIGMA FREQUENCY CONTROL

Uncompromising efficiency

SM SFC to HSD SFC series compressors from KAESER are exceptionally efficient variable speed rotary screw compressors. SM, SK and ASK SFC models use KAESER's minimal maintenance belt drive system, which features automatic belt tensioning to ensure optimum power transmission. Larger models from the ASD SFC series upwards are equipped with KAESER's premium efficiency 1:1 direct drive system.

The large, low-speed KAESER airends with energy-saving SIGMA PROFILE rotors provide outstanding performance throughout their entire control range.

The variable speed rotary screw compressors from the SM SFC to the HSD SFC series are all capable of 100 percent duty cycles without any increase in maintenance requirements.

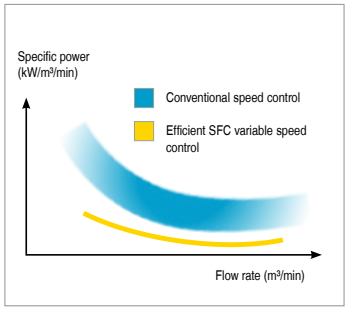


3:0 for 1:1

Significantly increasing reliability and service life, 1:1 drive (available with ASD SFC series upwards) reduces the number of components needed in comparison with gear drive and eliminates the associated transmission losses. Sound levels are also considerably lower. The benefits speak for themselves: efficient power transmission, optimal energy consumption and reduced servicing / downtime costs.

SIGMA CONTROL 2

The control unit features an easy to read display and durable input keys; all relevant information can be viewed at a glance. User-friendliness is further enhanced by the logical menu structure and the ability to display data in any one of 30 selectable languages.



Optimised specific power

In any compressed air installation, it is the variable speed controlled compressor that operates longer than any other unit within the system. KAESER SFC models are therefore designed with maximum efficiency and low-speed operation in mind. This saves energy, maximises service life and enhances reliability.

Maximum dependability even at high ambient temperatures

Contained in its own separately cooled cabinet, the generously sized SFC module ensures perfect performance at ambient temperatures of up to +45 °C.

Entire package EMC certified

The electro-magnetic compatibility (EMC) of components and of the complete machine has been tested and certified in accordance with all applicable regulations.

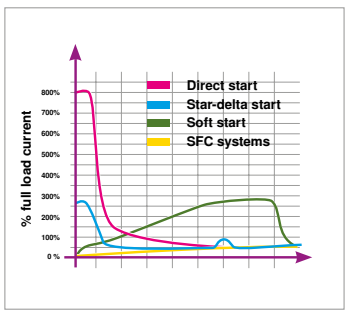
Compressors with frequency converter:

Series:
SM SFC to HSD SFC (IE4)

Series:
ASD SFC with synchronous reluctance motor (IES2)

Motor power: 7.5 to 515 kW
Flow rate: 0.30 to 86 m³/min
Standard pressures: 6 to 15 bar(g)

SFC = SIGMA FREQUENCY CONTROL



Soft start with no damaging current spikes

The soft rise in motor starting current from zero to full load without current spikes leads to an almost unlimited motor starting frequency (the number of possible motor starts within a given time period without overheating occurring). The continuously variable acceleration and deceleration significantly reduces component stress.

SIGMA CONTROL 2

...for SX to HSD series compressors

With its versatile control, monitoring and communication abilities, the industrial PC-based SIGMA CONTROL 2 is the perfect choice for applications requiring sophisticated communication functionality. It is therefore fitted as standard in all KAESER ASD to HSD series rotary screw compressors and is optionally available for SX, SM, SK and ASK series compressors.

Series: SX – HSD

SIGMA CONTROL 2 – The function keys in detail

Basic functions

ON key switches the compressor 'ON' -> automatic self control operation. Green LED indicates 'Compressor ON'.

OFF key
Switches the compressor 'OFF'.

'Traffic light' functions

Alarm icon – Red LED – indicates 'Compressor alarm'. Compressor is shut down on alarm.

Communication alarm icon – Red LED – indicates 'Data communication to other systems interrupted or faulty'.

Maintenance icon – Yellow LED – indicates 'Maintenance due' or 'Maintenance counter expired' or 'Warning'.

Power ON icon – Green LED – indicates 'Main switch ON and supply current flowing'.

Menu functions

UP key scrolls display text line for line upwards.

DOWN key scrolls display text line for line downwards.

RIGHT key scrolls text line-by-line to the right.

LEFT key scrolls text line-by-line to the left.

Escape key returns to next highest menu level.

Return key initiates jump to next sub-menu or accepts value.

Acknowledge key confirms alarms and – when permitted – resets the alarm memory.

Info key – calls up current event information.

Additional functions

Idle key switches the compressor from load to idle.

Remote ON key – Green LED – switches remote control mode 'ON' and 'OFF'.

Timer ON/OFF key – Green LED – activates/deactivates the set timer function.

Load icon – Green LED – indicates 'Compressor on load, air being supplied'.

Idle icon – Green LED – indicates 'Compressor running, no air supply'.

SIGMA CONTROL BASIC

...for SXC

The SIGMA CONTROL BASIC is installed in our SXC series ‘All-in-one’ rotary screw compressor packages. It is the ideal solution for users who initially require a single compressor for their air supply, but who also may wish to expand the compressed air system in the future. Furthermore, KAESER’s modular control and compressed air management concept ensures trouble-free system compatibility.

Series: SXC

SIGMA CONTROL BASIC – Functions

- Quick and simple operation with clear icons and large display
- Fully automatic DUAL control (full load/ idle/ on/off control)
- Monitoring of air network pressure parameters, airend temperature and direction of rotor rotation
- Counter for service, load and operation hours
- Adjustable service intervals, pressure and temperature unit selection (bar / psi / MPa / °C / °F)
- Nominal system pressure separately adjustable
- Adjustable switching differential
- Group alarm floating contact
- Electronic pressure transducer

Information technology – Tailored system solutions

SIGMA AIR MANAGEMENT SYSTEM

The further-refined adaptive 3-D^{advanced} Control predictively calculates and compares various operating scenarios and selects the most efficient to suit the compressed air application's specific needs. Compressor flow rate and energy consumption are therefore always optimally matched according to actual compressed air demand. In combination with the integrated multi-core processor industrial PC, the adaptive 3-D^{advanced} Control is able to ensure optimised performance at all times. Furthermore, the SIGMA NETWORK bus converters (SBC) provide users with a host of possibilities to enable the system to be individually tailored to meet their exact requirements. The SBCs can be equipped with digital and analogue input and output modules, as well as with SIGMA NETWORK ports. This allows information such as alarm messages, flow rate, pressure dew point and performance measurement data, for example, to be gathered and easily displayed.

(1) SIGMA AIR MANAGER 4.0 (SAM 4.0) master controller

- Adaptive 3D^{advanced} Control
- Live P&I diagram

Fast and active overview of the entire compressed air station

- Versions SAM 4.0-4, SAM 4.0-8, SAM 4.0-16
- Upgradeable: software upgrade accommodates compressed air station expansion – no hardware change necessary
- Digital inputs, 4 analogue 4-20 mA inputs, 5 relay outputs
- One pressure transducer included
- 7 SIGMA NETWORK ports for compressors with SIGMA CONTROL 2 controller and/or SIGMA NETWORK bus converter (SBC)
- Optionally with SNW-PROFIBUS-Master for connection to existing stations with SIGMA AIR MANAGER

(2) KAESER CONNECT – For connection to centralised control systems

Communication module options: PROFIBUS DP, PROFINET IO, Modbus TCP

(3) Visualisation via integrated web server – KAESER CONNECT

- Long-term data storage for reporting, analysis, controlling and audits, 50001 energy management
- Targeted compressed air cost minimisation
- Detailed energy cost reports
- Cost blocks can be added individually
- No need for separate software (viewed via Internet browser)
- Visualisation via gigabit Ethernet interface for remote visualisation
- Current information available at all times online

(4) SIGMA NETWORK (SNW)

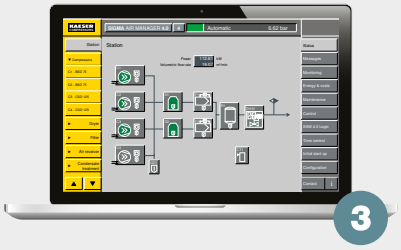
KAESER-specific, secure network for machine control and communication

(5) Connection of compressors with SIGMA CONTROL 2

Connection of SIGMA CONTROL 2 equipped compressors is performed via the SIGMA NETWORK

(6) Connection of existing SAM Profibus networks with SNW-PROFIBUS-Master

Existing compressed air stations with Profibus networks can be easily connected using the optional SNW-PROFIBUS-Master



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Digital output device, e.g. laptop

Control centre

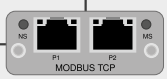
KAESER CONNECT

1

SIGMA AIR MANAGER 4.0

Communications module e.g. Modbus TCP

2



4

KAESER SIGMA NETWORK

SIGMA NETWORK
PROFIBUS Master

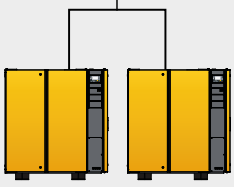
5

Controller:
SIGMA CONTROL 2

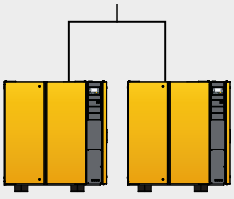
6

Controller:
SIGMA CONTROL

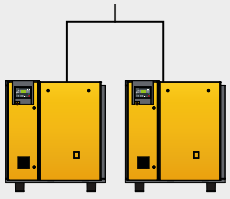
Various connection possibilities for treatment components



Connection of conventional compressors possible



Connection of compressors with SIGMA CONTROL 2



Connection of compressors with SIGMA CONTROL; connection to stations with Profibus network (SAM 1 alternative)

Secure data – secure business!

Premium quality, precision machined

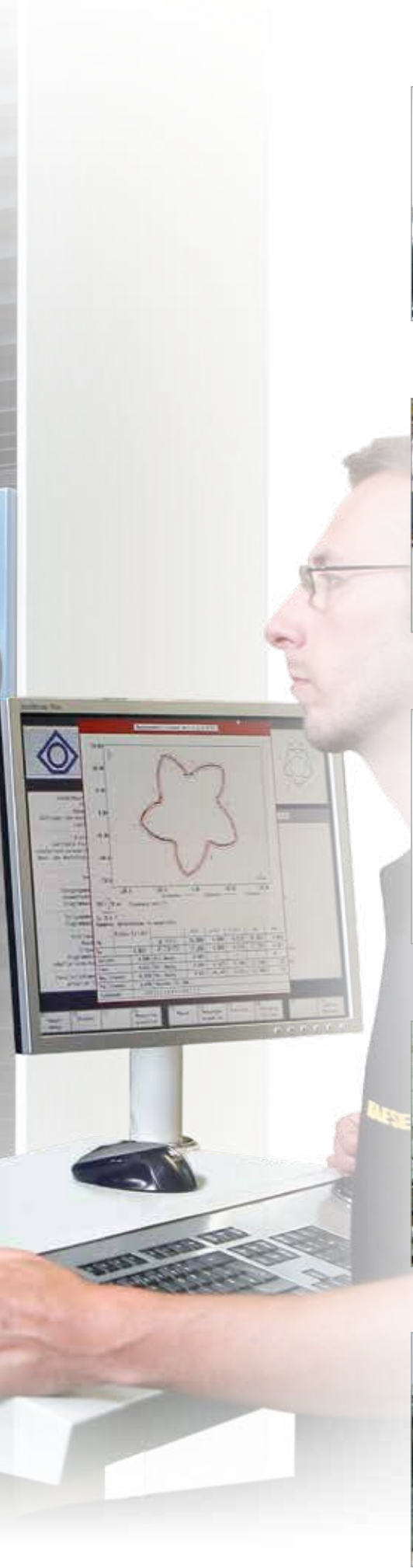
Production and quality assurance

To achieve maximum precision, components for KAESER rotary screw compressors are machined in climate-controlled rooms using the very latest tool machinery.

Dedicated and highly qualified personnel draw on years of engineering experience to ensure unrivalled product quality and consistency. Production tolerances are continuously monitored using precision 3-D measuring equipment that detects variations with micron accuracy (large photo right).

Future-oriented

Efficiency, reliability and exceptional user-friendliness are long-standing trademarks of KAESER products. The company's state-of-the-art Research and Development Centre (left) houses the very latest equipment and is designed to provide the research engineers with unrivalled working conditions, to maintain and extend KAESER's competitive edge and to deliver continuous product innovation.



Precision milling and grinding

The SIGMA PROFILE rotors are machined on CNC profile grinders to micron accuracy.

Meticulous assembly

All airends and compressor packages are assembled to the highest standards by KAESER's qualified specialists in accordance with KAESER's Quality Management System.

Continuous quality control

Precision machining tolerance inspection via state-of-the-art 3-D coordinate measuring equipment ensures consistent product quality and component characteristics.

Detailed inspection

Each rotor pair undergoes detailed inspection for fitting accuracy and interplay.

Flexible machining centres

Rotors and casings for KAESER airends are produced in state-of-the-art, climate-controlled machining centres. Quality management to DIN/ISO 9001 ensures unrivalled product quality.

Expert advice and professional customer care: KAESER AIR SERVICE

Global service and consulting

KAESER is represented throughout the world by in-country subsidiaries and qualified partners. No matter where, our customers can rely on fast, dependable customer support – and the same applies for service and maintenance.

Optimised compressed air supply

After carrying out a computer-aided Air Demand Analysis (ADA), we will quickly determine your business's compressed air demand and provide an exact itemised air-cost analysis. With help from KAESER's Energy Saving System (KESS), the ADA data forms the basis for determining a cost-optimised air supply system.

Worldwide Teleservice

KAESER Teleservice, a service solution based on global networking and data communication, enables remote diagnosis and demand-oriented maintenance. It provides improved availability and optimised overall air supply efficiency.

Outstanding customer service

Our goal is total customer satisfaction, which is why we have created a worldwide service network providing global customer support. Expert service technicians and engineers are available throughout the world to give fast, reliable help where you need it, when you need it.

Genuine KAESER parts

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

SIGMA AIR UTILITY

SIGMA AIR UTILITY – Just buy the air you need. Now you can buy compressed air at a fixed price per unit, just like electricity or any other utility.

More and more users choose KAESER KOMPRESSOREN

Trade and industry

The majority of industrial compressed air requirements are met by rotary screw compressors, which are also being increasingly used in trade and workshop applications. KAESER rotary screw compressors with SIGMA PROFILE rotor airends reflect this growing trend, as more than 200,000 of these economical and reliable systems are currently in service throughout the world.

Dust evacuation, packaging, filtration

KAESER rotary screw vacuum packages with special KAESER vacuum airends are just as suited to evacuating, testing, drying, and degassing processes as they are to filtration applications or filling bottles and tubes. These units are also equipped with the advanced PC-based SIGMA CONTROL 2 compressor controller.

PET bottle production

KAESER has developed a remarkably economical system solution for this growing field of application. The SIGMA PET AIR bottle production system comprises a low pressure stage (rotary screw compressor, control air), a high pressure stage (booster, blow moulding) and efficient refrigeration drying. In addition to outstanding system availability, air users benefit from low investment and operating costs.

Pressure and vacuum applications

KAESER rotary blowers with OMEGA PROFILE are used in pressure/ vacuum applications for drying, aerating wastewater clarifiers, conveying powder or granular material, suction cleaning, inspection and packaging.

Compressed air for maritime applications

KAESER KOMPRESSOREN also offers a specialised range of compressed air products customised especially for the needs of maritime users. Rotary screw compressors, for example, are used to produce work air and supply compressed air for special applications, such as nitrogen production. Rotary blowers are also used to treat wastewater on large cruise liners.

SX – ASK series

Rotary screw compressors with V-belt drive – to 22 kW

Model	Gauge working pressure bar	Flow rate *) Overall package at gauge working pressure m³/min	Max. gauge pressure bar	Motor rated power kW	Dimensions W x D x H mm	Compressed air connection	Sound pressure level **) dB(A)	Mass kg
SX 3	7.5 10	0.34 0.26	8 11	2.2	590 x 632 x 970	G ¾	59	140
SX 4	7.5 10 13	0.45 0.36 0.26	8 11 15	3	590 x 632 x 970		60	140
SX 6	7.5 10 13	0.60 0.48 0.37	8 11 15	4	590 x 632 x 970		61	145
SX 8	7.5 10 13	0.80 0.67 0.54	8 11 15	5.5	590 x 632 x 970		64	155
SM 9	7.5 10 13	0.95 0.78 0.58	8 11 15	5.5	630 x 790 x 1100	G ¾	64	210
SM 12	7.5 10 13	1.30 1.07 0.80	8 11 15	7.5	630 x 790 x 1100		65	220
SM 15	7.5 10 13	1.60 1.34 1.07	8 11 15	9	630 x 790 x 1100		66	230
SK 22	7.5 10 13	2.00 1.68 1.32	8 11 15	11	750 x 895 x 1260	G 1	66	312
SK 25	7.5 10 13	2.50 2.11 1.72	8 11 15	15	750 x 895 x 1260		67	320
ASK 28	7.5 10 13	2.86 2.40 1.93	8 11 15	15	800 x 1100 x 1530	G 1 ¼	65	485
ASK 34	7.5 10 13	3.51 3.00 2.50	8 11 15	18.5	800 x 1100 x 1530		67	505
ASK 40	7.5 10 13	4.06 3.52 2.94	8 11 15	22	800 x 1100 x 1530		69	525

*) Performance data to ISO 1217 : 2009, Annex C

**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum gauge working pressure; tolerance: ± 3 dB (A)

ASD – CSDX series

Rotary screw compressors with 1:1 drive – to 90 kW

Model	Gauge working pressure bar	Flow rate *) Overall package at gauge working pressure m³/min	Max. gauge pressure bar	Motor rated power kW	Dimensions W x D x H mm	Compressed air connection	Sound pressure level **) dB(A)	Mass kg
ASD 35	7.5 10	3.16 2.63	8.5 12	18.5	1460 x 900 x 1530	G 1 ¼	65	610
ASD 40	7.5 10 13	3.92 3.13 2.58	8.5 12 15	22	1460 x 900 x 1530		66	655
ASD 50	7.5 10 13	4.58 3.85 3.05	8.5 12 15	25	1460 x 900 x 1530		66	695
ASD 60	7.5 10 13	5.53 4.49 3.71	8.5 12 15	30	1460 x 900 x 1530		69	750
BSD 65	7.5 10 13	5.65 4.52 3.76	8.5 12 15	30	1590 x 1030 x 1700	G 1 ½	69	970
BSD 75	7.5 10 13	7.00 5.60 4.43	8.5 12 15	37	1590 x 1030 x 1700		70	985
BSD 83	7.5 10 13	8.16 6.85 5.47	8.5 12 15	45	1590 x 1030 x 1700		71	1060
CSD 85	7.5 10 13	8.26 6.89 5.50	8.5 12 15	45	1760 x 1110 x 1900	G 2	70	1250
CSD 105	7.5 10 13	10.14 8.18 6.74	8.5 12 15	55	1760 x 1110 x 1900		71	1290
CSD 125	7.5 10 13	12.02 10.04 8.06	8.5 12 15	75	1760 x 1110 x 1900		72	1320
CSDX 140	7.5 10 13	13.74 11.83 9.86	8.5 12 15	75	2110 x 1290 x 1950	G 2	71	1830
CSDX 165	7.5 10 13	16.16 13.53 11.49	8.5 12 15	90	2110 x 1290 x 1950		72	1925

*) Performance data to ISO 1217: 2009, Annex C

**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum gauge working pressure; tolerance: ± 3 dB (A)

DSD – HSD series

Rotary screw compressors with 1:1 drive – to 500 kW

Model	Gauge working pressure bar	Flow rate *) Overall package at gauge working pressure m³/min	Max. gauge pressure bar	Motor rated power kW	Dimensions W x D x H mm	Compressed air connection	Sound pressure level **) dB(A)	Mass kg
DSD 145	7.5	14.00	9	75	2450 x 1730 x 2150	DN 65	69	2950
DSD 175	7.5 10	16.92 13.60	8.5 12	90	2450 x 1730 x 2150		70	3090
DSD 205	7.5 10 13	21.00 16.59 13.06	8.5 12 15	110	2450 x 1730 x 2150		72	3360
DSD 240	7.5 10 13	25.15 20.40 16.15	8.5 12 15	132	2450 x 1730 x 2150		74	3430
DSDX 245	7.5 10 13	25.15 20.40 16.15	8.5 12 15	132	2690 x 1910 x 2140	DN 80	74	3950
DSDX 305	7.5 10 13	30.20 24.70 19.78	8.5 12 15	160	2690 x 1910 x 2140		75	4450
ESD 352	7.5 10 13	37.85 30.13 24.34	8.5 12 15	200	2960 x 2030 x 2140	DN 100	75	5000
ESD 442	7.5 10 13	42.20 37.32 29.67	8.5 12 15	250	2960 x 2030 x 2140		76	5060
FSD 475	7.5 10 13	48.20 37.63 29.52	8.5 12 15	250	3495 x 2145 x 2360	DN 150	79	6580
FSD 575	7.5 10 13	58.40 47.57 37.00	8.5 12 15	315	3495 x 2145 x 2360		79	6750
HSD 662	7.5 10 13	66.40 54.44 43.72	8.5 12 15	360	3570 x 2145 x 2350	DN 150	71	8100
HSD 722	7.5 10 13	72.40 59.48 47.87	8.5 12 15	400	3570 x 2145 x 2350		72	8500
HSD 782	7.5 10 13	78.40 65.31 53.07	8.5 12 15	450	3570 x 2145 x 2350		72	8600
HSD 842	7.5 10 13	84.40 71.15 58.27	8.5 12 15	500	3570 x 2145 x 2350		73	8700

*) Performance data to ISO 1217 : 2009, Annex C

**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum gauge working pressure; tolerance: ± 3 dB (A)

SXC – AIRCENTER SX/SM/SK series

Modular rotary screw compressors with refrigeration dryer & air receiver – to 15 kW

Model	Gauge working pressure	Flow rate *) Overall package at gauge working pressure	Max. gauge pressure	Motor rated power	Refrigeration dryer power consumption	Refrigerant	Pressure dew point	Air receiver capacity	Dimensions W x D x H	Compressed air connection	Sound pressure level **)	Mass
	bar	m³/min	bar	kW	kW	Type	°C	l	mm		dB(A)	kg
SXC 3	7.5 10	0.34 0.26	8 11	2.2	0.18	R 134a	+ 6	215	620 x 980 x 1480	G ¾	68	285
SXC 4	7.5 10 13	0.45 0.36 0.26	8 11 15	3.0	0.18	R 134a	+ 6	215	620 x 980 x 1480		69	285
SXC 6	7.5 10 13	0.60 0.48 0.37	8 11 15	4.0	0.26	R 134a	+ 6	215	620 x 980 x 1480		69	290
SXC 8	7.5 10 13	0.80 0.67 0.54	8 11 15	5.5	0.26	R 134a	+ 6	215	620 x 980 x 1480		69	300
AIRCENTER 3	7.5 10	0.34 0.26	8 11	2.2	0.18	R 134a	+ 3	200	590 x 1090 x 1560	G ¾	59	285
AIRCENTER 4	7.5 10 13	0.45 0.36 0.26	8 11 15	3	0.18	R 134a	+ 3	200	590 x 1090 x 1560		60	285
AIRCENTER 6	7.5 10 13	0.60 0.48 0.37	8 11 15	4	0.26	R 134a	+ 3	200	590 x 1090 x 1560		61	290
AIRCENTER 8	7.5 10 13	0.80 0.67 0.54	8 11 15	5.5	0.26	R 134a	+ 3	200	590 x 1090 x 1560		64	300
AIRCENTER 9	7.5 10 13	0.95 0.78 0.58	8 11 15	5.5	0.33	R 134a	+ 3	270	630 x 1220 x 1720	G ¾	64	400
AIRCENTER 12	7.5 10 13	1.30 1.07 0.80	8 11 15	7.5	0.33	R 134a	+ 3	270	630 x 1220 x 1720		65	410
AIRCENTER 15	7.5 10 13	1.60 1.34 1.07	8 11 15	9	0.33	R 134a	+ 3	270	630 x 1220 x 1720		66	420
AIRCENTER 22	7.5 10 13	2.00 1.68 1.32	8 11 15	11	0.46	R 134a	+ 3	350	750 x 1370 x 1880	G 1	66	579
AIRCENTER 25	7.5 10 13	2.50 2.11 1.72	8 11 15	15	0.46	R 134a	+ 3	350	750 x 1370 x 1880		67	587

*) Performance data to ISO 1217 : 2009, Annex C

**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum gauge working pressure; tolerance: ± 3 dB (A)

SX – ASK T series

Modular rotary screw compressors with refrigeration dryer – to 22 kW

Model	Gauge working pressure	Flow rate *) Overall package at gauge working pressure	Max. gauge pressure	Motor rated power	Refrigeration dryer power consumption	Refrigerant	Pressure dew point	Dimensions W x D x H	Compressed air connection	Sound pressure level **)	Mass
	bar	m³/min	bar	kW	kW	Type	°C	mm		dB(A)	kg
SX 3 T	7.5 10	0.34 0.26	8 11	2.2	0.18	R 134a	+ 3	590 x 905 x 970	G ¾	59	185
SX 4 T	7.5 10 13	0.45 0.36 0.26	8 11 15	3	0.18	R 134a	+ 3	590 x 905 x 970		60	185
SX 6 T	7.5 10 13	0.60 0.48 0.37	8 11 15	4	0.26	R 134a	+ 3	590 x 905 x 970		61	190
SX 8 T	7.5 10 13	0.80 0.67 0.54	8 11 15	5.5	0.26	R 134a	+ 3	590 x 905 x 970		64	200
SM 9 T	7.5 10 13	0.95 0.78 0.58	8 11 15	5.5	0.33	R 134a	+ 3	630 x 1090 x 1100	G ¾	64	285
SM 12 T	7.5 10 13	1.30 1.07 0.80	8 11 15	7.5	0.33	R 134a	+ 3	630 x 1090 x 1100		65	295
SM 15 T	7.5 10 13	1.60 1.34 1.07	8 11 15	9	0.33	R 134a	+ 3	630 x 1090 x 1100		66	305
SK 22 T	7.5 10 13	2.00 1.68 1.32	8 11 15	11	0.46	R 134a	+ 3	750 x 1240 x 1260	G 1	66	387
SK 25 T	7.5 10 13	2.50 2.11 1.72	8 11 15	15	0.46	R 134a	+ 3	750 x 1240 x 1260		67	395
ASK 28 T	7.5 10 13	2.86 2.40 1.93	8 11 15	15	0.70	R 134a	+ 3	800 x 1460 x 1530	G 1 ¼	65	580
ASK 34 T	7.5 10 13	3.51 3.00 2.50	8 11 15	18.5	0.70	R 134a	+ 3	800 x 1460 x 1530		67	600
ASK 40 T	7.5 10 13	4.06 3.52 2.94	8 11 15	22	0.70	R 134a	+ 3	800 x 1460 x 1530		69	620

*) Performance data to ISO 1217 : 2009, Annex C

**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum gauge working pressure; tolerance: ± 3 dB (A)

ASD – DSD T series

Modular rotary screw compressors with refrigeration dryer – to 132 kW

Model	Gauge working pressure bar	Flow rate *) Overall package at gauge working pressure m³/min	Max. gauge pressure bar	Motor rated power kW	Refrigeration dryer power consumption kW	Refrigerant Type	Pressure dew point °C	Dimensions W x D x H mm	Compressed air connection	Sound pressure level **) dB(A)	Mass kg
ASD 35 T	7.5 10	3.16 2.63	8.5 12	18.5	0.8	R 134a	+ 3	1770 x 900 x 1530	G 1 ¼	65	705
ASD 40 T	7.5 10 13	3.92 3.13 2.58	8.5 12 15	22	0.8	R 134a	+ 3	1770 x 900 x 1530		66	750
ASD 50 T	7.5 10 13	4.58 3.85 3.05	8.5 12 15	25	0.8	R 134a	+ 3	1770 x 900 x 1530		66	790
ASD 60 T	7.5 10 13	5.53 4.49 3.71	8.5 12 15	30	0.8	R 134a	+ 3	1770 x 900 x 1530		69	845
BSD 65 T	7.5 10 13	5.65 4.52 3.76	8.5 12 15	30	0.8	R 134a	+ 3	1990 x 1030 x 1700	G 1 ½	69	1100
BSD 75 T	7.5 10 13	7.00 5.60 4.43	8.5 12 15	37	0.8	R 134a	+ 3	1990 x 1030 x 1700		70	1115
BSD 83 T	7.5 10 13	8.16 6.85 5.47	8.5 12 15	45	0.8	R 134a	+ 3	1990 x 1030 x 1700		71	1190
CSD 85 T	7.5 10 13	8.26 6.89 5.50	8.5 12 15	45	0.8	R 134a	+ 3	2160 x 1110 x 1900	G 2	70	1410
CSD 105 T	7.5 10 13	10.14 8.18 6.74	8.5 12 15	55	0.8	R 134a	+ 3	2160 x 1110 x 1900		71	1450
CSD 125 T	7.5 10 13	12.02 10.04 8.06	8.5 12 15	75	1.1	R 134a	+ 3	2160 x 1110 x 1900		72	1510
CSDX 140 T	7.5 10 13	13.74 11.83 9.86	8.5 12 15	75	1.2	R 134a	+ 3	2510 x 1290 x 1950	G 2	71	2045
CSDX 165 T	7.5 10 13	16.16 13.53 11.49	8.5 12 15	90	1.2	R 134a	+ 3	2510 x 1290 x 1950		72	2140
DSD 145 T	7.5	14.00	9	75	1.8	R 134a	+ 3	2750 x 1730 x 2150	DN 65	69	3220
DSD 175 T	7.5 10	16.92 13.60	8.5 12	90	1.8	R 134a	+ 3	2750 x 1730 x 2150		70	3630
DSD 205 T	7.5 10 13	21.00 16.59 13.06	8.5 12 15	110	1.8	R 134a	+ 3	2750 x 1730 x 2150		72	3630
DSD 240 T	7.5 10 13	25.15 20.40 16.15	8.5 12 15	132	1.8	R 134a	+ 3	2750 x 1730 x 2150		74	3700

*) Performance data to ISO 1217 : 2009, Annex C

**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum gauge working pressure and maximum speed; tolerance: ± 3 dB (A)

SM – CSDX SFC series

Modular rotary screw compressors with SIGMA FREQUENCY CONTROL – to 90 kW

Model	Gauge working pressure	Flow rate *) Overall package at gauge working pressure	Max. gauge pressure	Motor rated power	Min. pressure bandwidth	Speed range min. – max.	Dimensions W x D x H	Compressed air connection	Sound pressure level **)	Mass
	bar	m³/min	bar	kW	bar	rpm	mm		dB(A)	kg
SM 12 SFC	7.5 10 13	0.38 - 1.30 0.34 - 1.10 0.34 - 0.84	8 11 15	7.5	± 0.1	1200 - 3600 1200 - 3650 1800 - 3750	630 x 790 x 1100	G ¾	67	220
SK 22 SFC	7.5 10 13	0.62 - 1.98 0.63 - 1.67 0.57 - 1.37	8 11 15	11	± 0.1	1200 - 3510 1500 - 3552 1800 - 3660	750 x 895 x 1260	G 1	67	329
SK 25 SFC	7.5 10 13	0.81 - 2.55 0.84 - 2.25 0.83 - 1.90	8 11 15	15	± 0.1	1200 - 3660 1500 - 3696 1800 - 3872	750 x 895 x 1260		68	337
ASK 34 SFC	7.5 10 13	0.94 - 3.60 0.80 - 3.14 0.88 - 2.70	8 11 15	18.5	± 0.1	1060 - 3691 1075 - 3752 1420 - 3865	800 x 1100 x 1530	G 1 ¼	68	530
ASK 40 SFC	7.5 10 13	0.94 - 4.19 0.80 - 3.71 0.88 - 3.17	8 11 15	22	± 0.1	900 - 3692 900 - 3741 1200 - 3870	800 x 1100 x 1530		70	550
ASD 40 SFC	7.5	1.05 - 4.64	8.5	22	± 0.1	900 - 3563	1540 x 900 x 1530	G 1 ¼	68	755
ASD 50 SFC	7.5 10 13	1.07 - 5.27 1.00 - 4.58 0.93 - 3.82	8.5 13 13	25	± 0.1	750 - 3433 900 - 3550 900 - 3100	1540 x 900 x 1530	G 1 ¼	68	735
ASD 60 SFC	7.5 10 13	1.26 - 6.17 1.00 - 4.76 0.93 - 4.14	8.5 15 15	30	± 0.1	750 - 3330 900 - 3750 900 - 3366	1540 x 900 x 1530		70	795
BSD 75 SFC	7.5 10 13	1.54 - 7.35 1.52 - 6.47 1.16 - 5.50	10 10 15	37	± 0.1	900 - 3888 900 - 3430 900 - 3690	1665 x 1030 x 1700	G 1 ½	72	1070
CSD 85 SFC	7.5 10 13	1.95 - 8.08 1.48 - 6.91 1.07 - 5.92	8.5 12 15	45	± 0.1	900 - 3492 900 - 3730 900 - 4020	1760 x 1110 x 1900	G 2	72	1260
CSD 105 SFC	7.5 10 13	2.19 - 9.85 1.90 - 8.35 1.36 - 6.88	8.5 12 15	55	± 0.1	900 - 3606 900 - 3690 900 - 3840	1760 x 1110 x 1900		73	1380
CSD 125 SFC	7.5 10 13	2.84 - 12.00 2.05 - 10.53 1.79 - 8.75	8.5 12 15	75	± 0.1	900 - 3624 900 - 3900 900 - 4020	1760 x 1110 x 1900		74	1400
CSDX 140 SFC	7.5 10 13	3.39 - 13.17 2.81 - 11.33 1.90 - 9.73	8.5 12 15	75	± 0.1	900 - 3330 900 - 3410 900 - 3660	2110 x 1290 x 1950	G 2	72	1835
CSDX 165 SFC	7.5 10 13	3.84 - 15.84 3.29 - 13.84 2.70 - 11.70	8.5 12 15	90	± 0.1	900 - 3486 900 - 3590 900 - 3660	2110 x 1290 x 1950		73	2025

*) Performance data to ISO 1217: 2009, Annex C

**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum gauge working pressure; tolerance: ± 3 dB (A)

DSD – HSD SFC series

Modular rotary screw compressors with SIGMA FREQUENCY CONTROL – to 515 kW

Model	Gauge working pressure	Flow rate *) Overall package at gauge working pressure	Max. gauge pressure	Motor rated power	Min. pressure bandwidth	Speed range min. – max.	Dimensions W x D x H	Compressed air connection	Sound pressure level **)	Mass
	bar	m³/min	bar	kW	bar	rpm	mm		dB(A)	kg
DSD 145 SFC	7.5	3.67 - 15.73	8.5	75	± 0.1	450 - 1667	2690 x 1730 x 2150	DN 65	70	3190
DSD 175 SFC	7.5 10	3.67 - 18.43 3.50 - 15.60	10	90	± 0.1	450 - 1942 450 - 1700	2690 x 1730 x 2150		71	3330
DSD 205 SFC	7.5 10 13	4.45 - 21.22 4.20 - 18.30 4.97 - 15.16	10 10 15	110	± 0.1	450 - 1883 450 - 1645 650 - 1713	2690 x 1730 x 2150		73	3340
DSD 240 SFC	7.5 10 13	5.57 - 23.47 5.33 - 20.08 4.96 - 16.57	8.5 12 15	132	± 0.1	450 - 1673 550 - 1800 650 - 1877	2690 x 1730 x 2150		75	3670
DSDX 245 SFC	7.5 10 13	5.57 - 27.17 5.58 - 23.35 4.95 - 19.27	8.5 12 15	132	± 0.1	450 - 1933 550 - 2087 650 - 2149	2940 x 1910 x 2140	DN 80	75	4700
DSDX 305 SFC	7.5 10 13	6.85 - 33.03 5.35 - 28.46 5.18 - 24.01	8.5 12 15	160	± 0.1	450 - 1985 450 - 2052 550 - 2191	2940 x 1910 x 2140		76	4800
ESD 352 SFC	7.5 10 13	8.6 - 37.6 8.22 - 32.51 6.4 - 27.48	8.5 12 15	200	± 0.1	450 - 1850 550 - 1952 550 - 2037	3200 x 2030 x 2140	DN 100	76	5480
ESD 442 SFC	7.5 10 13	10.6 - 43.2 8.33 - 37.89 7.77 - 31.94	8.5 12 15	250	± 0.1	450 - 1710 450 - 1884 550 - 1960	3200 x 2030 x 2140		77	5660
FSD 475 SFC	7.5 10	10.6 - 49.87 9.93 - 44.08	8.5 12	250	± 0.1	450 - 1993 550 - 2197	3740 x 2145 x 2360	DN 150	79	6930
FSD 575 SFC	7.5 10 13	13.33 - 59.83 12.9 - 50.85 11.55 - 45	8.5 12 15	315	± 0.1	450 - 1870 550 - 2050 650 - 2257	3740 x 2145 x 2360	DN 150	80	7300
HSD 662 SFC	7.5 10	10.4 - 66.35 8.5 - 57.5	8.5 12	382	± 0.1	450 - 1710 450 - 1863	4370 x 2145 x 2350	DN 150	73	9100
HSD 782 SFC	7.5 10 13	11.90 - 77.80 10.00 - 65.50 8.00 - 55.78	8.5 12 15	410	± 0.1	450 - 1690 450 - 1723 450 - 1860	4370 x 2145 x 2350		74	9600
HSD 842 SFC	7.5 10 13	11.90 - 87.30 10.00 - 74.44 8.00 - 63.44	8 12 15	515	± 0.1	450 - 1813 450 - 1895 450 - 2045	4370 x 2145 x 2350		75	10100

*) Performance data to ISO 1217 : 2009, Annex C

**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum gauge working pressure and maximum speed; tolerance: ± 3 dB (A)

AIRCENTER – ASK T SFC series

Modular rotary screw compressors with SIGMA FREQUENCY CONTROL and refrigeration dryer – to 22 kW

Model	Gauge working pressure	Flow rate *) Overall package at gauge working pressure	Max. gauge pressure	Motor rated power	Speed range min. – max.	Dryer power consumption	Refriger-ant	Pressure dew point	Dimensions W x D x H	Com-pressed air connection	Sound pressure level **)	Mass
	bar	m³/min	bar	kW	rpm	KW	Type	°C	mm		dB(A)	kg
AIRCENTER 12 SFC	7.5 10 13	0.38 - 1.30 0.34 - 1.10 0.34 - 0.84	8 11 15	7.5	1200 - 3600 1200 - 3650 1800 - 3750	0.33	R 134a	+ 3	630 x 1220 x 1720	G ¾	67	420
AIRCENTER 22 SFC	7.5 10 13	0.62 - 1.98 0.63 - 1.67 0.57 - 1.37	8 11 15	11	1200 - 3510 1500 - 3552 1800 - 3660	0.46	R 134a	+ 3	750 x 1370 x 1880	G 1	67	596
AIRCENTER 25 SFC	7.5 10 13	0.81 - 2.55 0.84 - 2.25 0.83 - 1.90	8 11 15	15	1200 - 3660 1500 - 3696 1800 - 3872	0.46	R 134a	+ 3	750 x 1370 x 1880	G 1	68	604
SM 12 T SFC	7.5 10 13	0.34 - 1.24 0.34 - 1.04 0.30 - 0.78	8 11 15	7.5	1200 - 3780 1500 - 3780 1800 - 3780	0.31	R 134a	+ 3	630 x 1074 x 1100	G ¾	67	295
SK 22 T SFC	7.5 10 13	0.62 - 1.98 0.63 - 1.67 0.57 - 1.37	8 11 15	11	1200 - 3510 1500 - 3652 1800 - 3660	0.46	R 134a	+ 3	750 x 1240 x 1260	G 1	67	404
SK 25 T SFC	7.5 10 13	0.81 - 2.55 0.84 - 2.25 0.83 - 1.90	8 11 15	15	1200 - 3660 1500 - 3696 1800 - 3872	0.46	R 134a	+ 3	750 x 1240 x 1260	G 1	68	412
ASK 34 T SFC	7.5 10 13	0.94 - 3.60 0.80 - 3.14 0.88 - 2.70	8 11 15	18.5	1060 - 3691 1075 - 3752 1420 - 3865	0.7	R 134a	+ 3	800 x 1460 x 1530	G 1 ¼	68	625
ASK 40 T SFC	7.5 10 13	0.94 - 4.19 0.80 - 3.71 0.88 - 3.17	8 11 15	22	800 - 3672 900 - 3741 1200 - 3870	0.7	R 134a	+ 3	800 x 1460 x 1530	G 1 ¼	70	645

*) Performance data to ISO 1217: 2009, Annex C

**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum gauge working pressure and maximum speed; tolerance: ± 3 dB (A)

ASD– DSD T SFC series

Modular rotary screw compressors with SIGMA FREQUENCY CONTROL and refrigeration dryer – to 132 kW

Model	Gauge working pressure bar	Flow rate *) Overall package at gauge working pressure m³/min	Max. gauge pressure bar	Motor rated power kW	Speed range min. – max. rpm	Dryer power consumption KW	Refriger-ant Type	Pressure dew point °C	Dimensions W x D x H mm	Compressed air connec-tion	Sound pressure level **) dB(A)	Mass kg
ASD 40 T SFC	7.5	1.05 - 4.64	8.5	22	900-3563	0.8	R 134a	+ 3	1850 x 900 x 1530	G 1 ¼	68	850
ASD 50 T SFC	7.5 10 13	1.07 - 5.27 1.00 - 4.58 0.93 - 3.82	8.5 13 13	25	750-3433 900-3550 900-3100	0.8	R 134a	+ 3	1850 x 900 x 1530	G 1 ¼	68	830
ASD 60 T SFC	7.5 10 13	1.26 - 6.17 1.00 - 4.76 0.93 - 4.14	8.5 15 15	30	750-3330 900-3750 900-3366	0.8	R 134a	+ 3	1850 x 900 x 1530		70	890
BSD 75 T SFC	7.5 10 13	1.54 - 7.35 1.52 - 6.47 1.16 - 5.50	10 10 15	37	900 - 3330 900 - 3600 900 - 3720	0.8	R 134a	+ 3	2080 x 1005 x 1700	G 1 ½	72	1200
CSD 85 T SFC	7.5 10 13	1.95 - 8.08 1.48 - 6.91 1.07 - 5.92	8.5 12 15	45	900 - 3492 900 - 3730 900 - 4020	0.8	R 134a	+ 3	2160 x 1110 x 1900		72	1420
CSD 105 T SFC	7.5 10 13	2.19 - 9.85 1.90 - 8.35 1.36 - 6.88	8.5 12 15	55	900 - 3606 900 - 3690 900 - 3840	0.8	R 134a	+ 3	2160 x 1110 x 1900	G 2	73	1540
CSD 125 T SFC	7.5 10 13	2.84 - 12.00 2.05 - 10.53 1.79 - 8.75	8.5 12 15	75	900 - 3624 900 - 3900 900 - 4020	1.1	R 134a	+ 3	2160 x 1110 x 1900		74	1590
CSDX 140 T SFC	7.5 10 13	3.39 - 13.17 2.81 - 11.33 1.90 - 9.73	8.5 12 15	75	900 - 3330 900 - 3410 900 - 3660	1.2	R 134a	+ 3	2510 x 1290 x 1950		72	2050
CSDX 165 T SFC	7.5 10 13	3.84 - 15.84 3.29 - 13.84 2.70 - 11.70	8.5 12 15	90	900 - 3486 900 - 3590 900 - 3660	1.2	R 134a	+ 3	2510 x 1290 x 1950	G 2	73	2240
DSD 145 T SFC	7.5	3.67 - 15.73	8.5	75	450 - 1667	1.8	R 134a	+ 3	2990 x 1730 x 2150		70	3470
DSD 175 T SFC	7.5 10	3.67 - 18.43 3.50 - 15.60	10	90	450 - 1942 450 - 1700	1.8	R 134a	+ 3	2990 x 1730 x 2150		71	3610
DSD 205 T SFC	7.5 10 13	4.45 - 21.22 4.20 - 18.30 4.97 - 15.16	10 10 15	110	450 - 1883 450 - 1645	1.8	R 134a	+ 3	2990 x 1730 x 2150	DN 65	73	3620
DSD 240 T SFC	7.5 10 13	5.57 - 23.47 5.33 - 20.08 4.96 - 16.57	8.5 12 15	132	450 - 1673 550 - 1800 650 - 1877	1.8	R 134a	+ 3	2990 x 1730 x 2150		75	3950

*) Performance data to ISO 1217 : 2009, Annex C

**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum gauge working pressure and maximum speed; tolerance: ± 3 dB (A)

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KAESER KOMPRESSOREN SE
P.O. Box 2143 – 96410 Coburg – GERMANY – Tel +49 9561 640-0 – Fax +49 9561 640-130
e-mail: productinfo@kaeser.com – www.kaeser.com

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