www.kaeser.com

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

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 system providers in the 1950s when founder, Carl Kaeser Snr, 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 expertise and commitment from 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 using the very latest information- and network-technology.

Contents

More air, more savings...

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, slower running 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, yet its standard construction means that this versatile control system can be matched to suit the needs of any rotary screw compressor from KAESER KOMPRESSOREN's extensive range. Comprising a main control unit and separate input/output modules, this modular concept therefore enhances the SIGMA CONTROL 2's communication and user-friendliness.

Internet capability

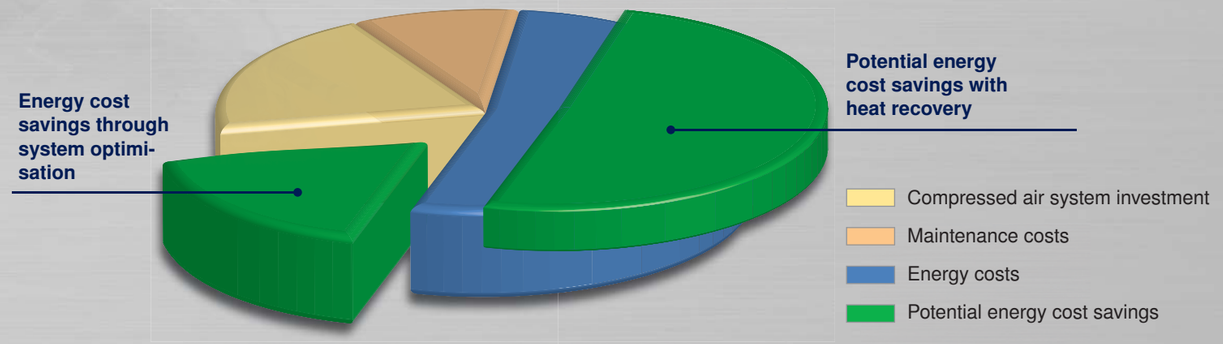
The SIGMA CONTROL 2 is equipped with its own web server, making it possible to communicate with the compressor via Intranet / Internet. Operational data and maintenance and alarm messages can therefore be viewed, with password protection, from any PC running a standard Internet browser. Amongst other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



KAESER rotary screw compressors
with belt drive – to 22 kW

Efficient KAESER V-belt drive

KAESER screw compressors with V-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.

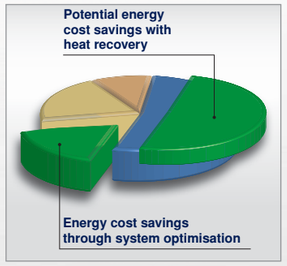
*) SX series models are equipped with a flat drive belt that does not require additional tensioning.

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: 8 / 11 / 15 bar(g)

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.



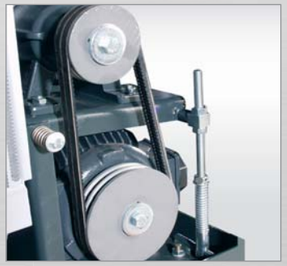
Save energy with the KAESER SIGMA PROFILE

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
- Energy cost saving potential
- Maintenance costs

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.



Automatic belt tensioning

The automatic belt tensioning device* ensures consistent transmission efficiency and excellent drive system reliability.

*) 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 premium efficiency IE3 drive motors.

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

Why 1:1 drive?

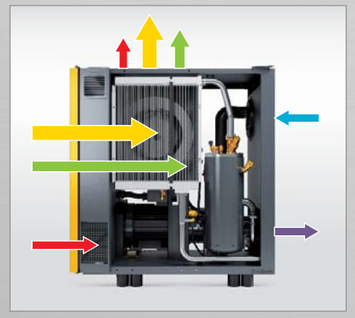
In compressed air packages featuring 1:1 direct drive the motor drives the airend directly without transmission loss via a maintenance-free coupling. 1:1 direct drive rotary screw compressors provide outstanding performance and enable significant savings. KAESER's comprehensive range of specially designed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

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)

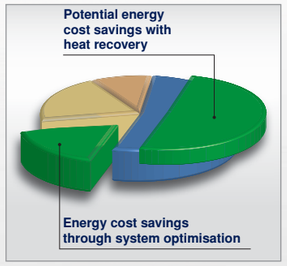


Unique cooling air flow

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
- Compressed air outlet
- Compressor intake air
- Drive motor cooling air



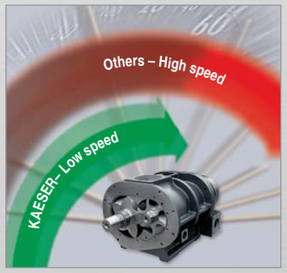
Save energy with the KAESER SIGMA PROFILE

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
- Potential energy cost savings
- Maintenance 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 coupled with the ability to display data in any one of 30 selectable languages.



Low speed operation

Large, low speed airends are more efficient than small high speed airends because they supply more air for the same drive power. Low speeds mean less wear and consequently lower maintenance costs.

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. Furthermore, reliability and service life are increased through elimination of wear and transmission losses, as 1:1 drive reduces the number of components needed in comparison with gear drive.

Electronic Thermal Management

The innovative Electronic Thermal 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 – CSDX, DSDX, ESD series)

KAESER COMPRESSORS

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

Space-saving combination of rotary screw compressor and refrigeration dryer

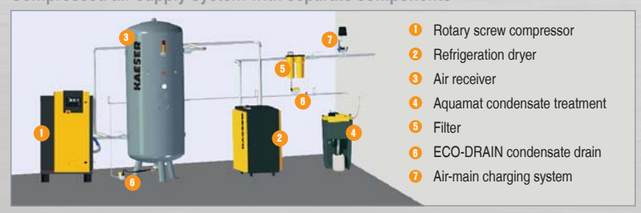
With KAESER's intelligent system design, the compressor and refrigeration dryer are both completely separate, independently functioning modules. This protects the dryer from exposure to heat from the compressor package thereby enhancing reliability.

Energy saving refrigeration dryer

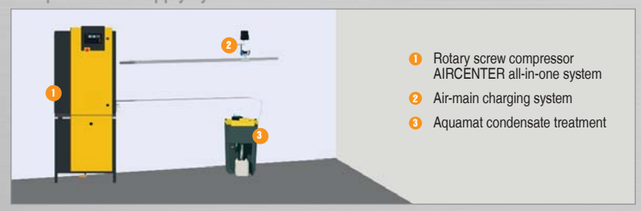
The dryer shut-down feature*, which can be selected via the compressor controller, is linked to compressor operation and significantly reduces energy consumption. All components are generously sized yet are easily accessible for maintenance and servicing work.

*) Not applicable to SXC models.

Compressed air supply system with separate components



Compressed air supply system with AIRCENTER



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.

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: 8 / 11 / 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: 8 / 11 / 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: 8 / 11 / 15 bar(g)

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 to 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 3 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.

KAESER rotary screw compressors
Modular design with refrigeration dryer – up 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 shielded from exposure to heat from the compressor package, which consequently enhances reliability.

Energy saving refrigeration dryer

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

PREMIUM EFFICIENCY IE3 MOTOR

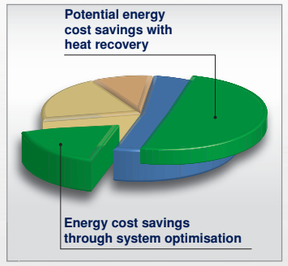
Compressors with refrigeration dryer:

Series: ASD T to DSD T
Motor power: 18.5 to 132 kW
Flow rate: 2.09 to 23.8 m³/min
Standard pressures: 8 / 11 / 15 bar(g)

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

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- Compressed air system investment
- Energy costs
- Energy cost saving potential
- Maintenance 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 coupled with the ability to display data in any one of 30 selectable languages.

Efficient 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 design

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

KAESER COMPRESSORS

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.

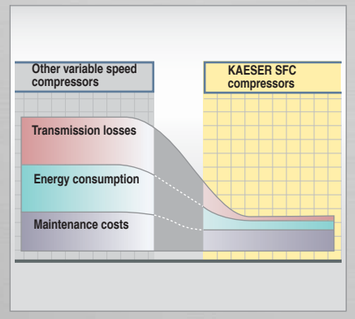
Every KAESER SFC compressor model from the SM SFC to the HSD SFC series is capable of 100 percent duty cycles without any increase in maintenance requirement.

SUPER PREMIUM EFFICIENCY IE4 MOTOR

Compressor with frequency converter:

Series: SM SFC to HSD SFC
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



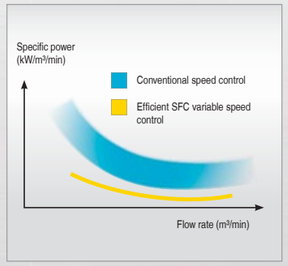
Ultimate efficiency with 1:1 drive

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.

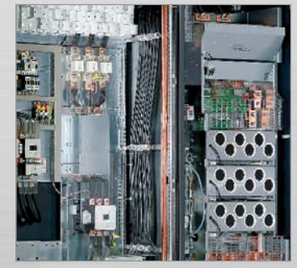
SIGMA CONTROL 2

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 coupled with 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.



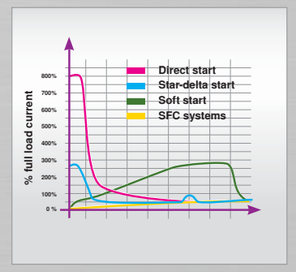
Maximum dependability even at high ambient temperatures

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

VDE EMC

Complete package EMC certified

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



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 and SIGMA CONTROL BASIC
Tailored intelligence

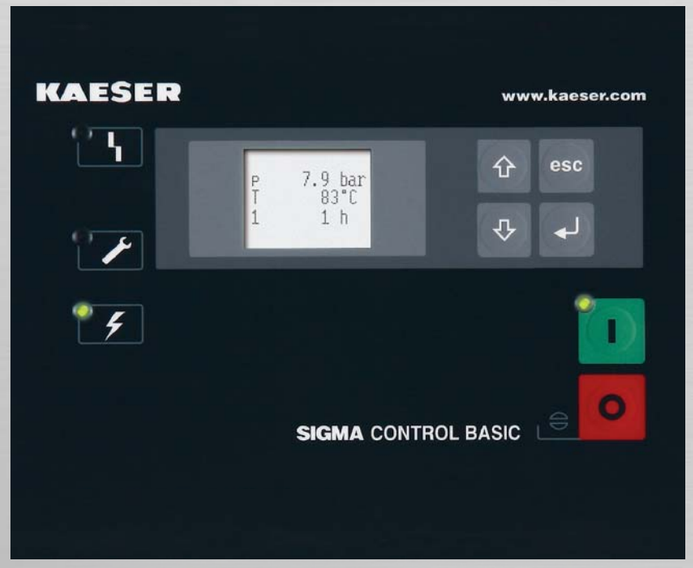
SIGMA CONTROL 2

...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 on 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 BASIC



...for SXC, SX, SM, SK and ASK

The SIGMA CONTROL BASIC is available with KAESER's SX, SM, SK and ASK series rotary screw compressors. It is the perfect 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, SX – ASK

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 power supply available'.

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 – 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 industrial PC processor, 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 3-D^{advanced} Control
- Live P&I diagram
  Faster 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
- 6 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

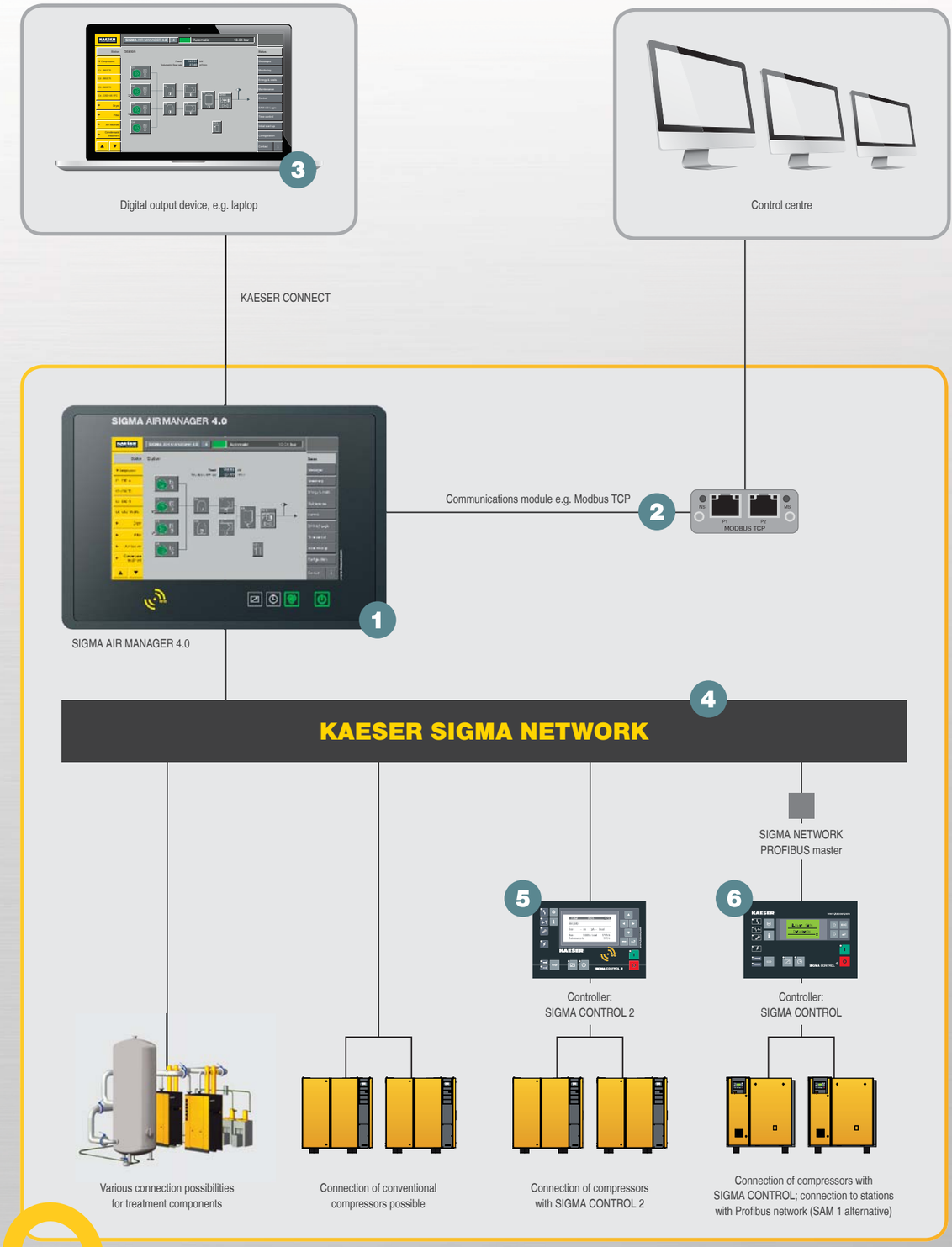
(2) KAESER CONNECT – For connection to centralised control systems
Communication module options: PROFIBUS DP, PROFINET IO, Modbus TCP

(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.



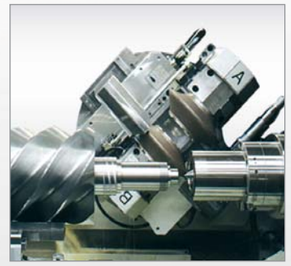
Secure data – secure business!

KAESER COMPRESSORS

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).



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.

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.

Flexible machining centres

Modern machining centres installed in special climate-controlled rooms produce the rotors and casings for KAESER airends. Quality management to DIN/ISO 9001 ensures unrivalled product quality.

KAESER COMPRESSORS

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 cost-saving service solution based on global networking and data communication, enables remote diagnosis and demand-oriented maintenance. The service 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 unrivalled reliability and long service life. Only KAESER original parts guarantee tested quality.

SIGMA AIR UTILITY

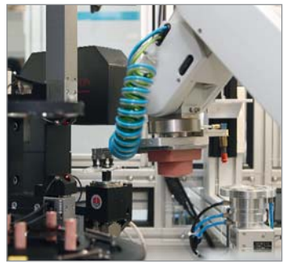
SIGMA AIR UTILITY – Just buy the air you need. Now you can buy compressed air at a fixed price per unit, just like electricity, or any other utility.

KAESER COMPRESSORS

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 performance, 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, cleaning by suction, 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	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Dimensions W x D x H mm	Connection Compressed air	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 ³/₄	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	0.90 0.75 0.56	8 11 15	5.5	630 x 762 x 1100	G ³/₄	64	200
SM 12	7.5 10 13	1.20 1.01 0.77	8 11 15	7.5	630 x 762 x 1100		65	210
SM 15	7.5 10 13	1.50 1.26 0.99	8 11 15	9	630 x 762 x 1100		66	220
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 working pressure; tolerance: ± 3 dB (A)

ASD – CSDX series

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

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Dimensions W x D x H mm	Connection Compressed air	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 working pressure; tolerance: ± 3 dB (A)

DSD – HSD series

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

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Dimensions W x D x H mm	Connection Compressed air	Sound pressure level **) dB(A)	Mass kg
DSD 142	7.5	13.62	9	75	2350 x 1730 x 2040	DN 65	68	2700
DSD 172	7.5 10	16.12 13.20	8.5 12	90	2350 x 1730 x 2040		69	2850
DSD 202	7.5 10 13	20.46 15.52 12.68	8.5 12 15	110	2350 x 1730 x 2040		70	3200
DSD 238	7.5 10 13	23.80 19.92 14.80	8.5 12 15	132	2350 x 1730 x 2040		79 ***)	3400
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	36.20 29.72 23.10	8.5 12 15	200	2800 x 2000 x 2140	DN 125	75	4935
ESD 442	7.5 10 13	42.20 35.40 28.92	8.5 12 15	250	2800 x 2000 x 2140		76	5000
FSD 471	7.5 10 12	47.10 40.50 35.50	8 10 12	250	3000 x 2143 x 2360	DN 125	79	6625
FSD 571	7.5 10 13	57.20 46.40 39.45	8 12 15	315	3000 x 2143 x 2360		79	6900
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 working pressure; tolerance: ± 3 dB(A);
***) At high fan speed

SXC – AIRCENTER SX/SM/SK series

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

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Refrigeration dryer power consumption kW	Refrigerant Type	Pressure dew point °C	Air receiver capacity l	Dimensions W x D x H mm	Connection Compressed air	Sound pressure level **) dB(A)	Mass 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	0.90 0.75 0.56	8 11 15	5.5	0.31	R 134a	+ 3	270	630 x 1200 x 1716	G ¾	64	390
AIRCENTER 12	7.5 10 13	1.20 1.01 0.77	8 11 15	7.5	0.31	R 134a	+ 3	270	630 x 1200 x 1716		65	400
AIRCENTER 15	7.5 10 13	1.50 1.26 0.99	8 11 15	9	0.32	R 134a	+ 3	270	630 x 1200 x 1716		66	410
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 working pressure; tolerance: ± 3 dB (A)

SX – ASK T series

Modular rotary screw compressors with refrigeration dryer – to 22 kW

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Refrigeration dryer power consumption kW	Refrigerant Type	Pressure dew point °C	Dimensions W x D x H mm	Connection Com-pressed air	Sound pressure level **) dB(A)	Mass 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	0.90 0.75 0.56	8 11 15	5.5	0.31	R 134a	+ 3	630 x 1074 x 1100	G ¾	64	275
SM 12 T	7.5 10 13	1.20 1.01 0.77	8 11 15	7.5	0.31	R 134a	+ 3	630 x 1074 x 1100		65	285
SM 15 T	7.5 10 13	1.50 1.26 0.99	8 11 15	9	0.32	R 134a	+ 3	630 x 1074 x 1100		66	295
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 working pressure; tolerance: ± 3 dB (A)

ASD – DSD T series

Modular rotary screw compressors with refrigeration dryer – to 132 kW

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Refrigeration dryer power consumption kW	Refrigerant Type	Pressure dew point °C	Dimensions W x D x H mm	Connection Compressed air	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 1/4	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 1/2	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 142 T	7.5	13.62	9	75	2.1	R 134a	+ 3	3310 x 1730 x 2040		68	3100
DSD 172 T	7.5 10	16.12 13.20	8.5 12	90	2.1	R 134a	+ 3	3310 x 1730 x 2040	DN 65	69	3250
DSD 202 T	7.5 10 13	20.46 15.52 12.68	8.5 12 15	110	2.35	R 134a	+ 3	3310 x 1730 x 2040		70	3650
DSD 238 T	7.5 10 13	23.80 19.92 14.80	8.5 12 15	132	2.35	R 134a	+ 3	3310 x 1730 x 2040		71 79***)	3850

*) Performance data to ISO 1217: 2009, Annex C; **) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum working pressure; tolerance: ± 3 dB(A);
***) At high fan speed

SM – CSDX SFC series

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

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Min. pressure bandwidth bar	Speed range min. – max. rpm	Frequency range min. – max. Hz	Dimensions W x D x H mm	Connection Com-pressed air	Sound pressure level **) dB(A)	Mass kg
SM 12 SFC	7.5 10 13	0.35 - 1.24 0.34 - 1.04 0.30 - 0.78	8 11 15	7.5	± 0.1	1200 - 3780 1500 - 3780 1800 - 3780	20 - 63 25 - 63 30 - 63	630 x 762 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	20 - 58.5 25 - 59.2 30 - 61.0	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	20 - 61.0 25 - 61.6 30 - 64.5	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	17.9 - 62.3 18.2 - 63.4 24.0- 65.3	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	15.2 - 62.4 15.2 - 63.2 20.3 - 65.4	800 x 1100 x 1530		70	550
ASD 40 SFC	7.5	1.02 - 4.58	8.5	22	± 0.1	900 - 3513	30.3 - 118.3	1540 x 900 x 1530	G 1 ¼	68	755
ASD 50 SFC	7.5 10 13	1.05 - 5.18 1.00 - 4.52 0.92 - 3.76	8.5 13 13	25	± 0.1	750 - 3373 900 - 3500 900 - 3050	25 - 113.6 30 - 117.8 30 - 102.7	1540 x 900 x 1530		68	735
ASD 60 SFC	7.5 10 13	1.26 - 6.04 1.00 - 4.70 0.92 - 4.08	8.5 15 15	30	± 0.1	750 - 3260 900 - 3700 900 - 3316	25 - 109.8 30 - 124.6 30 - 111.6	1540 x 900 x 1530	G 1 ¼	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	15 - 65.5 15 - 57.7 15 - 62.1	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	15 - 58.2 15 - 62.2 15 - 67	1760 x 1110 x 1900		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	15 - 60.1 15 - 61.5 15 - 64	1760 x 1110 x 1900	G 2	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	15 - 60.4 15 - 65 15 - 67	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	15 - 55.5 15 - 56.8 15 - 61	2110 x 1290 x 1950		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	15 - 58.1 15 - 59.8 15 - 61	2110 x 1290 x 1950	G 2	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 working pressure; tolerance: ± 3 dB (A)

DSD – HSD SFC series

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

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Min. pressure bandwidth bar	Speed range min. – max. rpm	Frequency range min. – max. Hz	Dimensions W x D x H mm	Connection Com-pressed air	Sound pressure level **) dB(A)	Mass kg
DSD 142 SFC	7.5	3.60 - 14.80	9	75	± 0.1	450 - 1635	15 - 54.5	2905 x 1730 x 2040	DN 65	69	3100
DSD 172 SFC	7.5 10	3.60 - 16.33 3.55 - 14.20	10	90	± 0.1	450 - 1815 450 - 1590	15 - 60.5 15 - 53	2905 x 1730 x 2040		70	3230
DSD 202 SFC	7.5 10 13	4.25 - 20.30 4.00 - 17.30 3.25 - 14.95	10 10 15	110	± 0.1	450 - 1905 450 - 1680 450 -1770	15 - 63.5 15 - 56 15 - 59	2905 x 1730 x 2040		71	3730
DSD 238 SFC	7.5 10 13	5.93 - 22.50 5.80 - 20.00 3.56 - 16.00	10 10 15	132	± 0.1	450 - 1650 450 - 1500 450 - 1620	15 - 55 15 - 50 15 - 54	2905 x 1730 x 2040		72 (79***)	3870
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	15.1 - 64.8 18.4 - 70.0 21.8 - 72.1	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	15.1 - 66.6 15.1 - 68.8 18.4 - 73.5	2940 x 1910 x 2140		76	4800
ESD 352 SFC	7.5 10 13	8.58 - 33.38 6.43- 27.43 5.17 - 23.70	8.5 12 15	200	± 0.1	450 - 1668 450 - 1730 450 - 1800	15 - 55.6 15 - 57.7 15 - 60	3100 x 2000 x 2140	DN 125	76	4848
ESD 442 SFC	7.5 10 13	10.14 - 41.52 8.33 - 36.00 6.13 - 29.50	8.5 12 15	250	± 0.1	450 - 1746 450 - 1870 450 - 1920	15 - 58.2 15 - 62.3 15 - 64.0	3100 x 2000 x 2140		77	4876
FSD 571 SFC	7.5 10 13	13.30 - 52.15 9.80 - 45.10 9.40 - 39.70	8.5 15 15	315	± 0.1	450 - 1665 450 - 1920 450 - 1710	15 - 55.5 15 - 64 15 - 57	3610 x 2143 x 2360	DN 125	80	7610
HSD 662 SFC	7.5 10	10.4 - 66.35 8.5 - 57.5	8.5 12	382	± 0.1	450 - 1710 450 - 1863	15.1 - 57.3 15.1 - 62.5	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	15.1 - 56.7 15.1 - 57.8 15.1 - 62.4	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	15.1 - 60.8 15.1 - 63.5 15.1 - 68.6	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 working pressure and maximum speed; tolerance: ± 3 dB(A); ***) At high fan speed

Aircenter – ASK T SFC series

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

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Speed range min. – max. rpm	Frequency range min. – max. Hz	Dryer power consumption KW	Refriger-ant Type	Pressure dew point °C	Dimensions W x D x H mm	Connec-tion Com-pressed air	Sound pressure level **) dB(A)	Mass kg
AIRCENTER 12 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	20 - 63 25 - 63 30 - 63	0.31	R 134a	+ 3	630 x 1200 x 1716	G ¾	67	410
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	20 - 58.5 25 - 59.2 30 - 61.0	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	20 - 61.0 25 - 61.6 30 - 64.5	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	20 - 63 25 - 63 30 - 63	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	20 - 58.5 25 - 58.2 30 - 61.0	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	20 - 61.0 25 - 61.6 30 - 64.5	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	17.9 - 62.3 18.2 - 63.4 24.0- 65.3	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	15.2 - 62.4 15.2 - 63.2 20.3 - 65.4	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 working pressure; tolerance: ± 3 dB (A)

ASD – DSD T SFC series

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

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Speed range min. – max. rpm	Frequency range min. – max. Hz	Dryer power consumption KW	Refriger-ant Type	Pressure dew point °C	Dimensions W x D x H mm	Connec-tion Com-pressed air	Sound pressure level **) dB(A)	Mass kg
ASD 40 T SFC	7.5	1.02 - 4.58	8.5	22	900 - 3513	30.3 - 118.3	0.8	R 134a	+ 3	1850 x 900 x 1530	G 1 1/4	68	850
ASD 50 T SFC	7.5 10 13	1.05 - 5.18 1.05 - 4.52 0.92 - 3.76	8.5 13 13	25	750 - 3373 900 - 3500 900 - 3050	25 - 113.6 30 - 117.8 30 - 102.7	0.8	R 134a	+ 3	1850 x 900 x 1530	G 1 1/4	68	830
ASD 60 T SFC	7.5 10 13	1.26 - 6.04 1.00 - 4.70 0.92 - 4.08	8.5 15 15	30	750 - 3260 900 - 3700 900 - 3316	25 - 109.8 30 - 124.6 30 - 111.6	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	15 - 55.5 15 - 60 15 - 62	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	15 - 58.2 15 - 62.2 15 - 67	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	15 - 60.1 15 - 61.5 15 - 64	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	15 - 60.4 15 - 65 15 - 67	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	15 - 55.5 15 - 56.8 15 - 61	1.2	R 134a	+ 3	2510 x 1290 x 1950	G 2	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	15 - 58.1 15 - 59.8 15 - 61	1.2	R 134a	+ 3	2510 x 1290 x 1950		73	2240
DSD 142 T SFC	7.5	3.60 - 14.80	9	75	450 - 1635	15 - 54.5	2.1	R 134a	+ 3	3310 x 1730 x 2040	DN 65	69	3400
DSD 172 T SFC	7.5 10	3.60 - 16.33 3.55 - 14.20	10	90	450 - 1815 450 - 1590	15 - 60.5 15 - 53	2.1	R 134a	+ 3	3310 x 1730 x 2040		70	3530
DSD 202 T SFC	7.5 10 13	4.25 - 20.30 4.00 - 17.30 3.25 - 14.95	10 10 15	110	450 - 1905 450 - 1680 450 - 1770	15 - 63.5 15 - 56 15 - 59	2.35	R 134a	+ 3	3310 x 1730 x 2040		71	4080
DSD 238 T SFC	7.5 10 13	5.93 - 22.50 5.80 - 20.00 3.56 - 16.00	10 10 15	132	450 - 1650 450 - 1500 450 - 1620	15 - 55 15 - 50 15 - 54	2.35	R 134a	+ 3	3310x 1730 x 2040		72 79***)	4220

*) Performance data to ISO 1217: 2009, Annex C; **) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum working pressure and maximum speed; tolerance: ± 3 dB(A); ***) At high fan speed

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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

P-650ED Specifications are subject to change without notice. 26/16