KAESER COMPRESSORS®

Rotary Screw Compressors

SX-HSD Series
With the world-renowned SIGMA PROFILE
Flow rate 0.26 to 86 m³/min, Pressure 5.5 to 15 bar

www.kaeser.com

KAESER KOMPRESSOREN – The global compressed air systems provider

The company was established by Carl Kaeser Sr. 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 Carl 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.

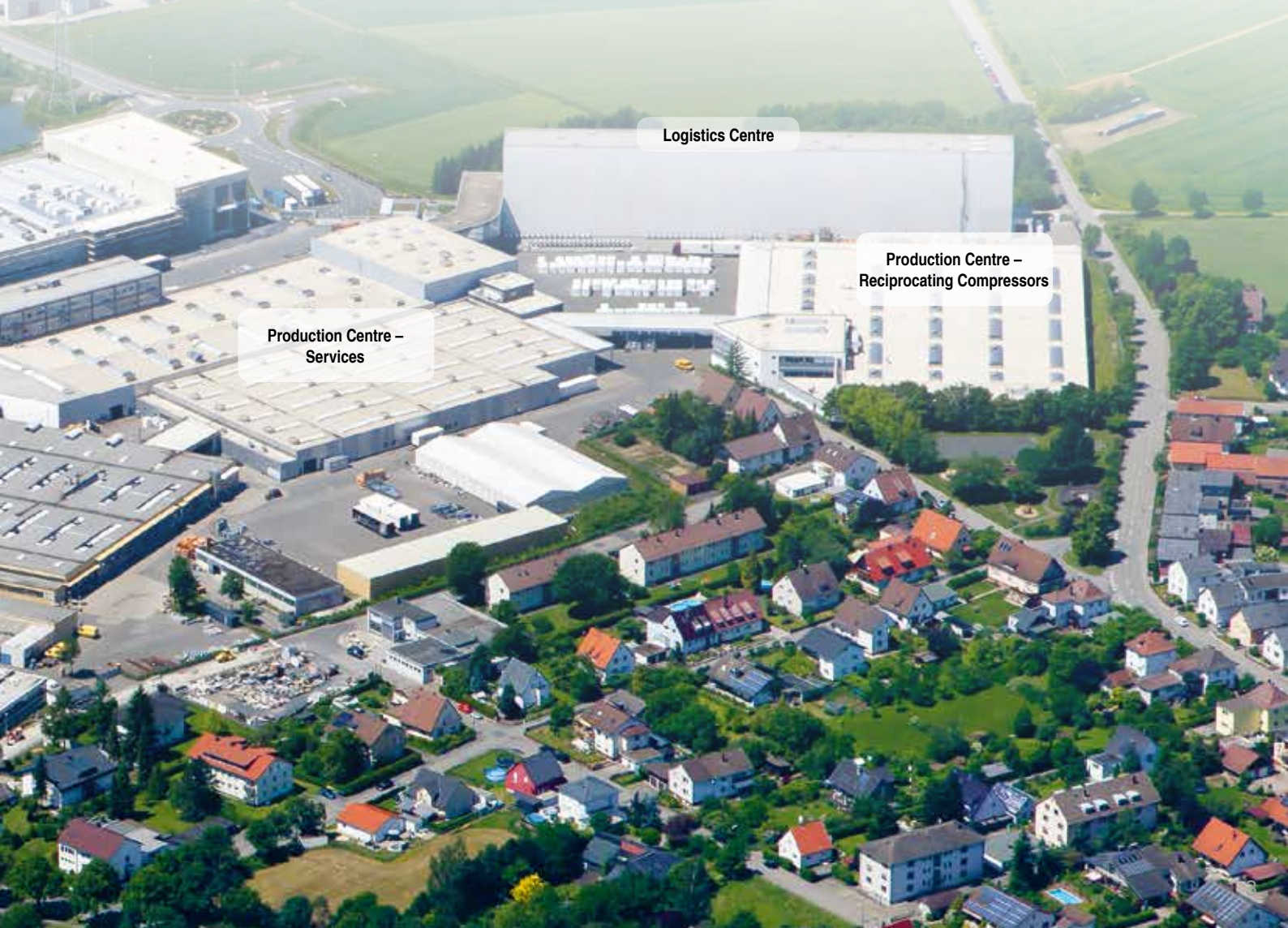
With expertise and commitment from approximately 6000 dedicated employees worldwide, KAESER KOMPRESSOREN today ranks amongst the world's largest and most successful compressor manufacturers, exporting compressed air system equipment to almost every corner of the planet.

Main plant, Coburg

The KAESER headquarters in Coburg currently employs approximately 2000 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

KAESER KOMPRESSOREN – The global compressed air systems provider	2-3
More compressed air for less energy	4-5
KAESER rotary screw compressors with belt drive	6-7
KAESER rotary screw compressors with 1:1 drive	8-9
KAESER rotary screw compressors – All-in-one systems	10-11
KAESER rotary screw compressors – Modular design with refrigeration dryer	12-13
KAESER rotary screw compressors with SIGMA FREQUENCY CONTROL	14-15
SIGMA CONTROL 2 and SIGMA CONTROL BASIC	16-17
Information technology – Tailored system solutions	18-19
Premium quality, precision machined	20-21
Expert advice and customer care: KAESER AIR SERVICE	22-23
More and more users choose KAESER Kompressoren	24-25
Technical specifications	26-31



More compressed air for less energy

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 SIGMA CONTROL 2 compressor controller

The SIGMA CONTROL 2 control unit coordinates compressed air generation and consumption. With its intelligent control, this advanced system prevents inefficient energy usage, especially in partial load operation. KAESER offers various control types that are suited to particular requirement.

The SIGMA CONTROL 2 fulfils the highest requirements for an internal compressor controller and is based on advanced industrial computing technology. The control unit is linked with interchangeable input and output modules, allowing flexible matching to all available KAESER rotary screw compressors, screw blowers, reciprocating compressors and rotary lobe blower systems, as well as to external communications systems. The industrial PC saves the last 200 operational events, helping you and KAESER Service to quickly find and reproduce faults. Furthermore, the built-in web server enables you to display operational data, maintenance and fault messages on any PC.

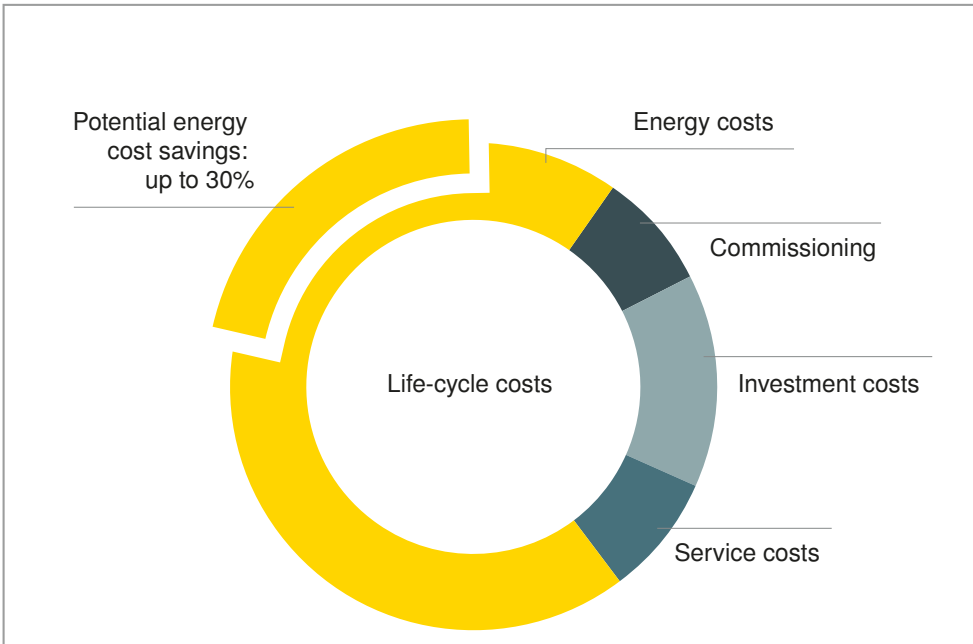
The SIGMA CONTROL 2 offers 30 selectable languages. The logical menu structure simplifies operation. Software updates and operating parameters can be quickly uploaded and transferred via the convenient SD card slot. This minimises service costs and allows the SD card to be used for (long-term) storage of key operational data.

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 % of the energy fed into 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 up to 22 kW

KAESER rotary screw compressors with belt drive provide outstanding efficiency and reliability. KAESER was one of the first compressor manufacturers to introduce the belt drive system. The automatic tensioning device*) ensures continually high transmission efficiency of the belt drive in KAESER rotary screw compressors over their entire service life. This, of course, also reduces maintenance costs. Moreover, the soundproofed enclosure keeps operational sound to a minimum – normal conversation can take place right next to the compressor.

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

Automatic belt tensioning

A high-performance V-belt with automatic tensioning guarantees highly effective power transmission from the drive motor to the airend. This saves energy and contributes to superior compressor reliability.

(SX 8 shown in image)

SIGMA CONTROL 2

The SIGMA CONTROL 2 ensures efficient control and system monitoring. The large display and RFID reader provide effective communication and maximum security. Multiple interfaces offer exceptional flexibility, whilst the SD card slot makes updates quick and easy.

SIGMA PROFILE airend

At the heart of every belt-drive rotary screw compressor lies a new premium quality airend featuring KAESER's SIGMA PROFILE energy-saving rotors. Flow-optimised for maximum efficiency, the rotors play a key role in setting the new standard when it comes to specific power performance for the system as a whole.

Image: SM 13 (IE4), SK 25 (IE3), SX 8 (IE3), ASK 28 (IE3)

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.

(SM 13T shown in image)

Up to
96 %
usable for heating

Heat recovery

Every rotary screw compressor converts 100 % of its input electrical drive energy into heat energy. Up to 96 % of this energy can be recovered and reused for heating purposes. This not only reduces primary energy consumption, but also improves the company's total energy balance.

Image: SXC 8 **), AIRCENTER SK 22 (IE3), AIRCENTER SX 8 (IE3), AIRCENTER SM 13 (IE4)

KAESER FILTER products for pure air

Thanks to lowest possible differential pressure, original KAESER FILTER (option) products efficiently ensure compressed air of all purity classes as per the ISO 8573-1 standard, and feature rapid and clean filter element replacement.

(AIRCENTER SM 13 shown in image)

Service-friendly design

The left-hand housing cover is easily removed to allow excellent accessibility to all service points. Inspection glasses allow convenient inspection of fluid levels, condensate drain and drive belt tension whilst the unit is in operation.

(AIRCENTER SM 13 shown in image)

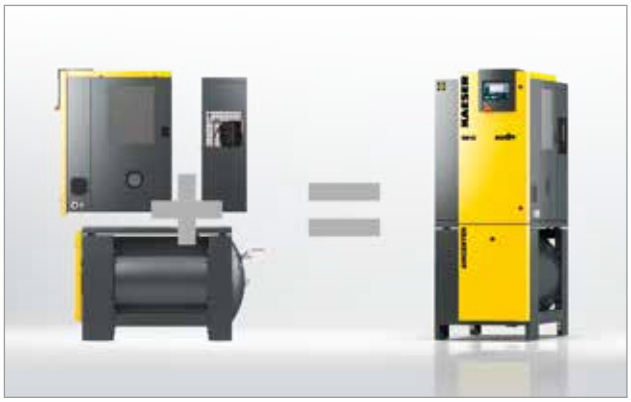
KAESER rotary screw compressors
All-in-one systems up to 22 kW

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.

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.

Thanks to the integrated refrigeration dryer, the system delivers high air quality and protects your equipment from corrosion damage.

*) Not available for SXC
**) With SIGMA CONTROL BASIC



Connect and go

Simply connect the power supply and air distribution network to this compact compressed air package and you're ready to go. There's no need for any additional installation work.

(SM 13 AIRCENTER shown in image)

SIGMA CONTROL 2

The SIGMA CONTROL 2 ensures efficient control and system monitoring. The large display and RFID reader provide effective communication and maximum security. Multiple interfaces offer exceptional flexibility, whilst the SD card slot makes updates quick and easy.

SIGMA PROFILE airend

At the heart of every belt-drive rotary screw compressor lies a new premium quality airend featuring KAESER's SIGMA PROFILE energy-saving rotors. Flow-optimised for maximum efficiency, the rotors play a key role in setting the new standard when it comes to specific power performance for the system as a whole.

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

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.

No energy is lost during power transmission.

The large, low speed airends save additional energy, whilst the 1:1 drive reduces maintenance costs.

The Electronic Thermo Management (ETM) system dynamically regulates fluid temperature. This not only saves additional energy, but also reliably prevents condensate formation and associated moisture damage.

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.

SIGMA CONTROL 2

The SIGMA CONTROL 2 ensures efficient control and system monitoring. The large display and RFID reader provide effective communication and maximum security. Multiple interfaces offer exceptional flexibility, whilst the SD card slot makes updates quick and easy.

SIGMA PROFILE airend

At the heart of every 1:1 direct drive rotary screw compressor lies a new premium quality airend featuring KAESER's SIGMA PROFILE energy-saving rotors. Operating at low speed, KAESER's airends are equipped with flow-optimised rotors for superior efficiency.

Image: ASD 60 (IE4), ESD 375 (IE4)

Required temperature assured

According to operating conditions, the innovative Electronic Thermo Management (ETM) system dynamically controls fluid temperature to ensure safe prevention of condensation accumulation and also boosts energy efficiency.

(ASD 60 shown in image)

Up to
96 %
usable for heating

Heat recovery

Every rotary screw compressor converts 100 % of its input electrical drive energy into heat energy. Up to 96 % of this energy can be recovered and reused for heating purposes. This not only reduces primary energy consumption, but also improves the company's total energy balance.

Image: ASD 60 T (IE4), DSD 240 T (IE4)

Future-proof refrigerant

The new EU 517/2014 F-gases regulation is intended to minimise emissions of fluorinated greenhouse gases and therefore contribute to limiting global warming.

KAESER's new T-systems are equipped with R-513A refrigerant, which has a very low GWP (Global Warming Potential) value. This means that these efficient dryers will be future-proof for their entire life cycle.

KAESER modular rotary screw compressors with refrigeration dryers up to 132 kW

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.

The dryer shutdown feature, which is linked to compressor operation, significantly reduces energy consumption.

(CSD 105 T shown in image)

Dependable KAESER centrifugal separator

A KAESER centrifugal separator fitted with an electronic ECO-DRAIN condensate drain installed upstream from the refrigeration dryer ensures that condensate is reliably pre-separated and drained, even when ambient temperatures and humidity are high.

(CSD 105 SFC shown in image)

SIGMA CONTROL 2

The SIGMA CONTROL 2 ensures efficient control and system monitoring. The large display and RFID reader provide effective communication and maximum security. Multiple interfaces offer exceptional flexibility, whilst the SD card slot makes updates quick and easy.

KAESER rotary screw compressors with SIGMA FREQUENCY CONTROL

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 requirement.

Systems with frequency-controlled synchronous reluctance motor

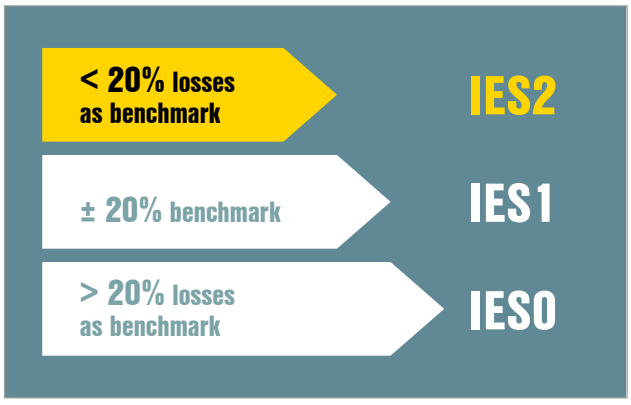
ASD, CSD and CSDX systems are equipped with a synchronous reluctance motor. A recent study shows that a typical compressed air consumption profile is in the 30-70 % range of the maximum. This is where a speed-controlled rotary screw compressor with synchronous reluctance motor can deliver its energy efficiency advantages in the partial-load range to the fullest.

High efficiency in partial-load operation

Synchronous reluctance motors achieve significantly better efficiency in the partial-load range than asynchronous motors, for example. This allows savings of up to 10 % compared with conventional variable-speed systems (applicable for ASD, CSD and CSDX series machines).

Standard DIN-EN 50598

The European eco-compatible design standard DIN-EN 50598 defines the requirements for drive systems in electrically driven production machines. It specifies system efficiency, taking into account losses from the motor and frequency converter. With 20 % lower losses compared to the benchmark, KAESER systems meet this standard with ease (applicable for ASD, CSD and CSDX series machines).



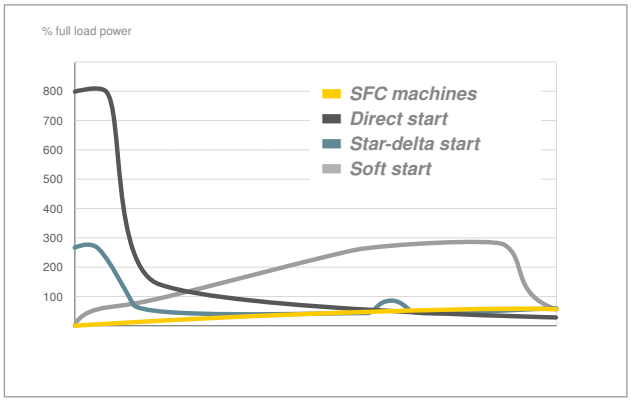
Maximum energy efficiency

With regards to frequency-controlled systems, KAESER meets the IES2 system efficiency standard, which indicates the highest possible level under the DIN-EN 50598 standard. The IES2 standard indicates 20 % lower losses compared to the benchmark (applicable for ASD, CSD and CSDX series machines).

Image: ASD 60 SFC (IES2), CSDX 140 SFC (IES2, IE4)

EMC-certified

It goes without saying that the SFC control cabinet and SIGMA CONTROL 2 are tested and certified both as individual components and as a system to EMC directive EN 55011 for Class A1 industrial power supplies.



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.

Internal compressor controller:
SIGMA CONTROL 2 (Control centre connectivity)

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 SX to HSD series rotary screw compressors. **Control centre connectivity** is provided as standard with ASD to HSD series machines and is optionally available for SX, SM, SK and ASK machines.

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'.

Internal compressor controller:
SIGMA CONTROL BASIC

The SIGMA CONTROL BASIC compressor controller is used in our “All-in-one” SXC series rotary screw compressor compressed air stations. 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.

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
- 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 – Control centre connectivity

Available communications modules: PROFIBUS DP, PROFINET IO, Modbus TCP

(3) KAESER CONNECT – Visualisation via integrated web server

- 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

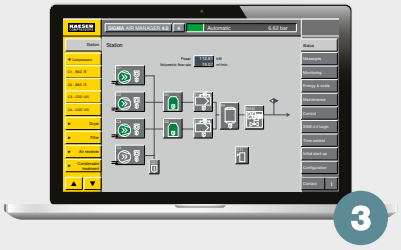
KAESER-specific, secure network for machine control and communication

(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



3

Digital output device, e.g. laptop

Control centre

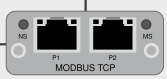
KAESER CONNECT

1

SIGMA AIR MANAGER 4.0

Communications module e.g. Modbus TCP

2



4

KAESER SIGMA NETWORK

SIGMA NETWORK
PROFIBUS Master

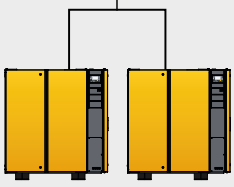
5

Controller:
SIGMA CONTROL 2

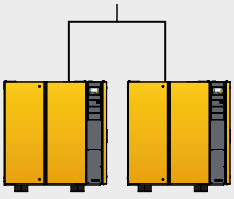
6

Controller:
SIGMA CONTROL

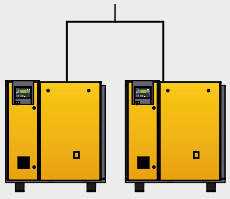
Various connection possibilities
for treatment components



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

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

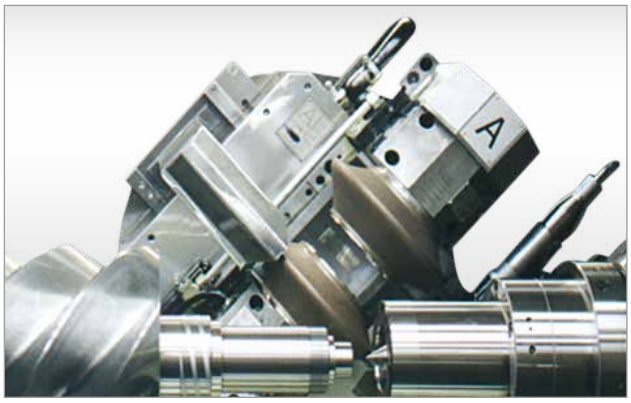
Dedicated and highly qualified personnel draw on years of engineering experience to ensure unrivalled product quality and consistency. Production tolerances are continuously monitored using precision 3-D measuring equipment that detects variations with micron accuracy (large photo right).

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.

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.



Precision milling and grinding

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

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.

Customer service: KAESER AIR SERVICE

As one of the largest compressed air system providers and compressor manufacturers, KAESER KOMPRESSOREN is represented throughout the world by a highly professional sales and service network to ensure that all KAESER products and services operate at the peak of their performance at all times and provide maximum availability.

One of the key requirements for any compressed air application is maximum compressed air availability. This is achieved however only by using the very best and most efficient components in conjunction with meticulous service and maintenance. Premium service plays a key role in ensuring that your compressed air supply system operates at the peak of its performance at all times and provides maximum production reliability.

Compressed air needs to be available all day, every day, which is why technical support staff, replacement parts and service technicians are on standby for emergencies 24 hours a day, 7 days a week.

Central service number (free of charge): **08000 523737**

Maximum availability

Global networking and data communication enables remote diagnosis and demand-oriented maintenance of Internet-compatible KAESER products. This technology assures 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 that provides 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.

More and more users are choosing KAESER KOMPRESSOREN

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 lobe or screw blowers are used in pressure / vacuum applications for drying, aerating wastewater clarifiers, conveying powder or granular material, suction cleaning, inspection and packaging.

Workshops, 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, since more than 200,000 of these economical and reliable systems are currently in service throughout the world.

SX – ASK series

Rotary screw compressors with V-belt drive – up 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 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 10	7.5 10 13	0.94 0.78 0.60	8 11 15	5.5	630 x 790 x 1100	G ¾	62	220
SM 13	7.5 10 13	1.32 1.08 0.85	8 11 15	7.5	630 x 790 x 1100		65	240
SM 16	7.5 10 13	1.62 1.36 1.09	8 11 15	9	630 x 790 x 1100		66	240
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 – up 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 series – AIRCENTER SX / SM / SK

Rotary screw compressors with 1:1 drive – up to 500 kW / modular with refrigeration dryer and air receiver – up to 15 kW

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Model Refrigeration dryer	Air receiver capacity l	Dimensions W x D x H mm	Connection: Compressed air	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 375	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 445	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
SXC 3	7.5 10	0.34 0.26	8 11	2.2	CT 4	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	CT 4	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	CT 8 CT 4 CT 4	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	CT 8 CT 8 CT 4	215	620 x 980 x 1480		69	300

*) 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)

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Rated motor power kW	Model Refrigeration dryer	Air receiver capacity l	Dimensions W x D x H mm	Connection: Compressed air	Sound pressure level **) dB(A)	Mass kg
AIRCENTER 3	7.5 10	0.34 0.26	8 11	2.2	ABT 4	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	ABT 4	200	590 x 1090 x 1560		60	285
AIRCENTER 6	7.5 10 13	0.60 0.48 0.37	8 11 15	4	ABT 8 ABT 4 ABT 4	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	ABT 8 ABT 8 ABT 4	200	590 x 1090 x 1560		64	300
AIRCENTER 10	7.5 10 13	0.94 0.78 0.60	8 11 15	5.5	ABT 15	270	630 x 1220 x 1720	G ¾	62	420
AIRCENTER 13	7.5 10 13	1.32 1.08 0.85	8 11 15	7.5	ABT 15	270	630 x 1220 x 1720		65	440
AIRCENTER 16	7.5 10 13	1.62 1.36 1.09	8 11 15	9	ABT 15	270	630 x 1220 x 1720		66	440
AIRCENTER 22	7.5 10 13	2.00 1.68 1.32	8 11 15	11	ABT 25	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	ABT 25	350	750 x 1370 x 1880		67	587

Technical specifications for add-on refrigeration dryers

Model	Refrigeration dryer power consumption kW	Pressure dew point °C	Refrigerant	Refrigerant fill volume kg	Greenhouse warming potential GWP	CO_2 equivalent t	Hermetic refrigerant circuit
CT 4	0.18	3	R-513A	0.17	631	0.1	Yes
CT 8	0.28	3	R-513A	0.24	631	0.2	Yes
ABT 4	0.18	3	R-513A	0.17	631	0.1	Yes
ABT 8	0.28	3	R-513A	0.24	631	0.2	Yes
ABT 15	0.37	3	R-513A	0.35	631	0.2	Yes
ABT 25	0.41	3	R-513A	0.62	631	0.4	Yes

Note regarding refrigerant: Please note that the listed performance data are valid only with conversion to R-513A refrigerant. Conversion will take place in the first quarter of 2019.

SX T – DSD T series

Modular rotary screw compressors with refrigeration dryer – up to 132 kW

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Drive motor rated power kW	Model Refrigeration dryer	Dimensions W x D x H mm	Connection: Compressed air	Sound pressure level **) dB(A)	Mass kg
SX 3 T	7.5 10	0.34 0.26	8 11	2.2	ABT 4	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	ABT 4	590 x 905 x 970		60	185
SX 6 T	7.5 10 13	0.60 0.48 0.37	8 11 15	4	ABT 8 ABT 4 ABT 4	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	ABT 8 ABT 8 ABT 4	590 x 905 x 970		64	200
SM 10 T	7.5 10 13	0.94 0.78 0.60	8 11 15	5.5	ABT 15	630 x 1090 x 1100	G ¾	62	295
SM 13 T	7.5 10 13	1.32 1.08 0.85	8 11 15	7.5	ABT 15	630 x 1090 x 1100		65	315
SM 16 T	7.5 10 13	1.62 1.36 1.09	8 11 15	9	ABT 15	630 x 1090 x 1100		66	315
SK 22 T	7.5 10 13	2.00 1.68 1.32	8 11 15	11	ABT 25	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	ABT 25	750 x 1240 x 1260		67	395
ASK 28 T	7.5 10 13	2.86 2.40 1.93	8 11 15	15	ABT 40	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	ABT 40	800 x 1460 x 1530		67	600
ASK 40 T	7.5 10 13	4.06 3.52 2.94	8 11 15	22	ABT 40	800 x 1460 x 1530		69	620
ASD 35 T	7.5 10	3.16 2.63	8.5 12	18.5	ABT 60	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	ABT 60	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	ABT 60	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	ABT 60	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	ABT 83	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	ABT 83	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	ABT 83	1990 x 1030 x 1700		71	1190

*) 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)

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Drive motor rated power kW	Model Refrigeration dryer kW	Dimensions W x D x H mm	Connection: Compressed air	Sound pressure level **) dB(A)	Mass kg
CSD 85 T	7.5 10 13	8.26 6.89 5.50	8.5 12 15	45	ABT 105	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	ABT 105	2160 x 1110 x 1900		71	1450
CSD 125 T	7.5	12.02	8.5	75	ABT 125	2160 x 1110 x 1900		72	1510
	10 13	10.04 8.06	12 15		ABT 105				
CSDX 140 T	7.5 10 13	13.74 11.83 9.86	8.5 12 15	75	ABT 165	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	ABT 165	2510 x 1290 x 1950		72	2140
DSD 145 T	7.5	14.00	9	75	ABT 250	2750 x 1730 x 2150	DN 65	69	3220
DSD 175 T	7.5 10	16.92 13.60	8.5 12	90	ABT 250	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	ABT 250	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	ABT 250	2750 x 1730 x 2150		74	3700

Technical specifications for add-on refrigeration dryers

Model	Refrigeration dryer power consumption kW	Pressure dew point °C	Refrigerant	Refrigerant fill volume kg	Greenhouse warming potential GWP	CO_2 equivalent t	Hermetic refrigerant circuit
ABT 4	0.18	3	R-513A	0.17	631	0.1	Yes
ABT 8	0.28	3	R-513A	0.24	631	0.2	Yes
ABT 15	0.37	3	R-513A	0.35	631	0.2	Yes
ABT 25	0.41	3	R-513A	0.62	631	0.4	Yes
ABT 40	0.60	3	R-513A	0.57	631	0.4	–
ABT 60	0.80	3	R-513A	0.75	631	0.5	–
ABT 83	0.90	3	R-513A	1.20	631	0.8	–
ABT 105	0.92	3	R-513A	1.45	631	0.9	–
ABT 125	1.30	3	R-513A	1.65	631	1.0	–
ABT 165	1.38	3	R-513A	1.50	631	0.9	–
ABT 250	1.80	3	R-513A	1.35	631	0.9	–

Note regarding refrigerant: Please note that the listed performance data are valid only with conversion to R-513A refrigerant. Conversion will take place in the first quarter of 2019.

SM – CSDX SFC series

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

Model	Working pressure	Flow rate *) Overall package at working pressure	Max. operating pressure	Rated motor power	Min. pressure bandwidth	Speed range min. – max.	Dimensions W x D x H	Connection: Compressed air	Sound pressure level **)	Mass
	bar	m³/min	bar	kW	bar	rpm	mm		dB(A)	kg
SM 13 SFC	7.5 10 13	0.39 - 1.40 0.40 - 1.19 0.42 - 0.95	8 11 15	7.5	± 0.1	1200 - 3766 1500 - 3884 2000 - 4025	630 x 790 x 1100	G ¾	67	250
SK 22 SFC	7.5 10 13	0.62 - 1.98 0.63 - 1.67 0.57 - 1.38	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 - 1.91	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	1.99 - 8.37 1.49 - 7.21 1.16 - 6.15	8.5 12 15	45	± 0.1	900 - 3600 900 - 3833 900 - 4082	1760 x 1110 x 1900	G 2	72	1220
CSD 105 SFC	7.5 10 13	2.32 - 10.01 1.91 - 8.79 1.39 - 7.41	8.5 12 15	55	± 0.1	900 - 3643 900 - 3835 900 - 4077	1760 x 1110 x 1900		73	1280
CSD 125 SFC	7.5 10 13	2.90 - 12.22 2.22 - 10.74 1.81 - 8.98	8.5 12 15	75	± 0.1	900 - 3707 900 - 3965 900 - 4094	1760 x 1110 x 1900		74	1300
CSDX 140 SFC	7.5 10 13	3.46 - 13.37 2.82 - 11.6 2.13 - 10.04	8.5 12 15	75	± 0.1	900 - 3360 900 - 3540 900 - 3734	2110 x 1290 x 1950	G 2	72	1650
CSDX 165 SFC	7.5 10 13	3.87 - 16.03 3.34 - 13.91 2.68 - 11.84	8.5 12 15	90	± 0.1	900 - 3563 900 - 3573 900 - 3710	2110 x 1290 x 1950		73	1750

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

**) 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 – up 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	Dimensions W x D x H mm	Connection: Compressed air	Sound pressure level **) dB(A)	Mass 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 375 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 445 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 E

**) 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)

AIRCENTER SFC – DSD T SFC series

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

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Drive motor rated power kW	Speed range min. – max. rpm	Model Refrigeration dryer	Dimensions W x D x H mm	Connection: Compressed air	Sound pressure level **) dB(A)	Mass kg
AIRCENTER 13 SFC	7.5 10 13	0.39 - 1.40 0.40 - 1.19 0.42 - 0.95	8 11 15	7.5	1200 - 3766 1500 - 3884 2000 - 4025	ABT 15	630 x 1220 x 1720	G ¾	67	450
AIRCENTER 22 SFC	7.5 10 13	0.62 - 1.98 0.63 - 1.67 0.57 - 1.38	8 11 15	11	1200 - 3510 1500 - 3552 1800 - 3660	ABT 25	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 - 1.91	8 11 15	15	1200 - 3660 1500 - 3696 1800 - 3872	ABT 25	750 x 1370 x 1880	G 1	68	604
SM 13 T SFC	7.5 10 13	0.39 - 1.40 0.40 - 1.19 0.42 - 0.95	8 11 15	7.5	1200 - 3766 1500 - 3884 2000 - 4025	ABT 15	630 x 1090 x 1100	G ¾	67	325
SK 22 T SFC	7.5 10 13	0.62 - 1.98 0.63 - 1.67 0.57 - 1.38	8 11 15	11	1200 - 3510 1500 - 3652 1800 - 3660	ABT 25	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 - 1.91	8 11 15	15	1200 - 3660 1500 - 3696 1800 - 3872	ABT 25	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	ABT 40	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 - 3.18	8 11 15	22	800 - 3672 900 - 3741 1200 - 3870	ABT 40	800 x 1460 x 1530	G 1 ¼	70	645
ASD 40 T SFC	7.5	1.05 - 4.64	8.5	22	900-3563	ABT 60	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	ABT 60	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	ABT 60	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	ABT 83	2080 x 1005 x 1700	G 1 ½	72	1200
CSD 85 T SFC	7.5 10 13	1.99 - 8.37 1.49 - 7.21 1.16 - 6.15	8.5 12 15	45	900 - 3600 900 - 3833 900 - 4082	ABT 105	2160 x 1110 x 1900	G 2	72	1380
CSD 105 T SFC	7.5 10 13	2.32 - 10.01 1.91 - 8.79 1.39 - 7.41	8.5 12 15	55	900 - 3643 900 - 3835 900 - 4077	ABT 105	2160 x 1110 x 1900		73	1440
CSD 125 T SFC	7.5	2.9 - 12.22	8.5	75	900 - 3707	ABT 125	2160 x 1110 x 1900		74	1490
	10 13	2.22 - 10.74 1.81 - 8.98	12 15		900 - 3965 900 - 4094	*ABT 105*				

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

**) 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)

Model	Working pressure bar	Flow rate *) Overall package at working pressure m³/min	Max. operating pressure bar	Drive motor rated power kW	Speed range min. – max. rpm	Model Refrigeration dryer	Dimensions W x D x H mm	Connection: Compressed air	Sound pressure level **) dB(A)	Mass kg
CSDX 140 T SFC	7.5 10 13	3.46 - 13.37 2.82 - 11.6 2.13 - 10.04	8.5 12 15	75	900 - 3360 900 - 3540 900 - 3734	ABT 165	2510 x 1290 x 1950	G 2	72	2050
CSDX 165 T SFC	7.5 10 13	3.87 - 16.03 3.34 - 13.91 2.68 - 11.84	8.5 12 15	90	900 - 3563 900 - 3573 900 - 3710	ABT 165	2510 x 1290 x 1950		73	2240
DSD 145 T SFC	7.5	3.67 - 15.73	8.5	75	450 - 1667	ABT 250	2990 x 1730 x 2150	DN 65	70	3470
DSD 175 T SFC	7.5 10	3.67 - 18.43 3.50 - 15.60	10	90	450 - 1942 450 - 1700	ABT 250	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	ABT 250	2990 x 1730 x 2150		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	ABT 250	2990 x 1730 x 2150		75	3950

Technical specifications for add-on refrigeration dryers

Model	Refrigeration dryer power consumption kW	Pressure dew point °C	Refrigerant	Refrigerant fill volume kg	Greenhouse warming potential GWP	CO_2 equivalent t	Hermetic refrigerant circuit
ABT 4	0.18	3	R-513A	0.17	631	0.1	Yes
ABT 8	0.28	3	R-513A	0.24	631	0.2	Yes
ABT 15	0.37	3	R-513A	0.35	631	0.2	Yes
ABT 25	0.41	3	R-513A	0.62	631	0.4	Yes
ABT 40	0.60	3	R-513A	0.57	631	0.4	–
ABT 60	0.80	3	R-513A	0.75	631	0.5	–
ABT 83	0.90	3	R-513A	1.20	631	0.8	–
ABT 105	0.92	3	R-513A	1.45	631	0.9	–
ABT 125	1.30	3	R-513A	1.65	631	1.0	–
ABT 165	1.38	3	R-513A	1.50	631	0.9	–
ABT 250	1.80	3	R-513A	1.35	631	0.9	–

Note regarding refrigerant: Please note that the listed performance data are valid only with conversion to R-513A refrigerant. Conversion will take place in the first quarter of 2019.

The world is our home

As one of the world's largest compressed air system providers and compressor manufacturers, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiary companies and authorised partners in over 100 countries.

With innovative products and services, KAESER KOMPRESSOREN's experienced consultants and engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency.

Moreover, the decades of knowledge and expertise from this industry-leading system provider are made available to each and every customer via the KAESER group's global computer network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that every product operates at the peak of its performance at all times and provides maximum availability.

LGA InterCert
Certified
QM/EM System
DIN EN ISO 9001:2015/
14001:2015

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. 30/19