



# Rotary Screw Compressors

## SX-HSD Series

With the world-renowned SIGMA PROFILE  
Flow rate 0.25 to 87.3 m<sup>3</sup>/min, Pressure 5.5 to 15 bar

# KAESER KOMPRESSOREN – The global compressed air systems provider

Carl Kaeser Sr established his company as a machine workshop in the town of Coburg in 1919, but it was his decision in 1948 to begin manufacturing reciprocating compressors that started the company on its road to becoming one of the most globally renowned compressed air systems providers. The final breakthrough came in the 1970s with the development of the rotary screw compressor featuring the energy-saving SIGMA PROFILE, which led the company to achieve its current position as one of the world's foremost compressor manufacturers.

KAESER KOMPRESSOREN today employs around 7000 people worldwide. It is their dedication and skill that enable the company to be ranked amongst the largest and most

successful manufacturers of compressed air systems, exporting compressors and compressed air treatment equipment to almost every corner of the globe.

## Main plant, Coburg

KAESER's headquarters in Coburg currently employs approximately 2000 people. The facility covers an area of over 150,000 m<sup>2</sup> and produces an extensive range of compressors. All locations in the international KAESER group of companies are linked together by the very latest information and network technology.



Production Centre - Portable Compressors

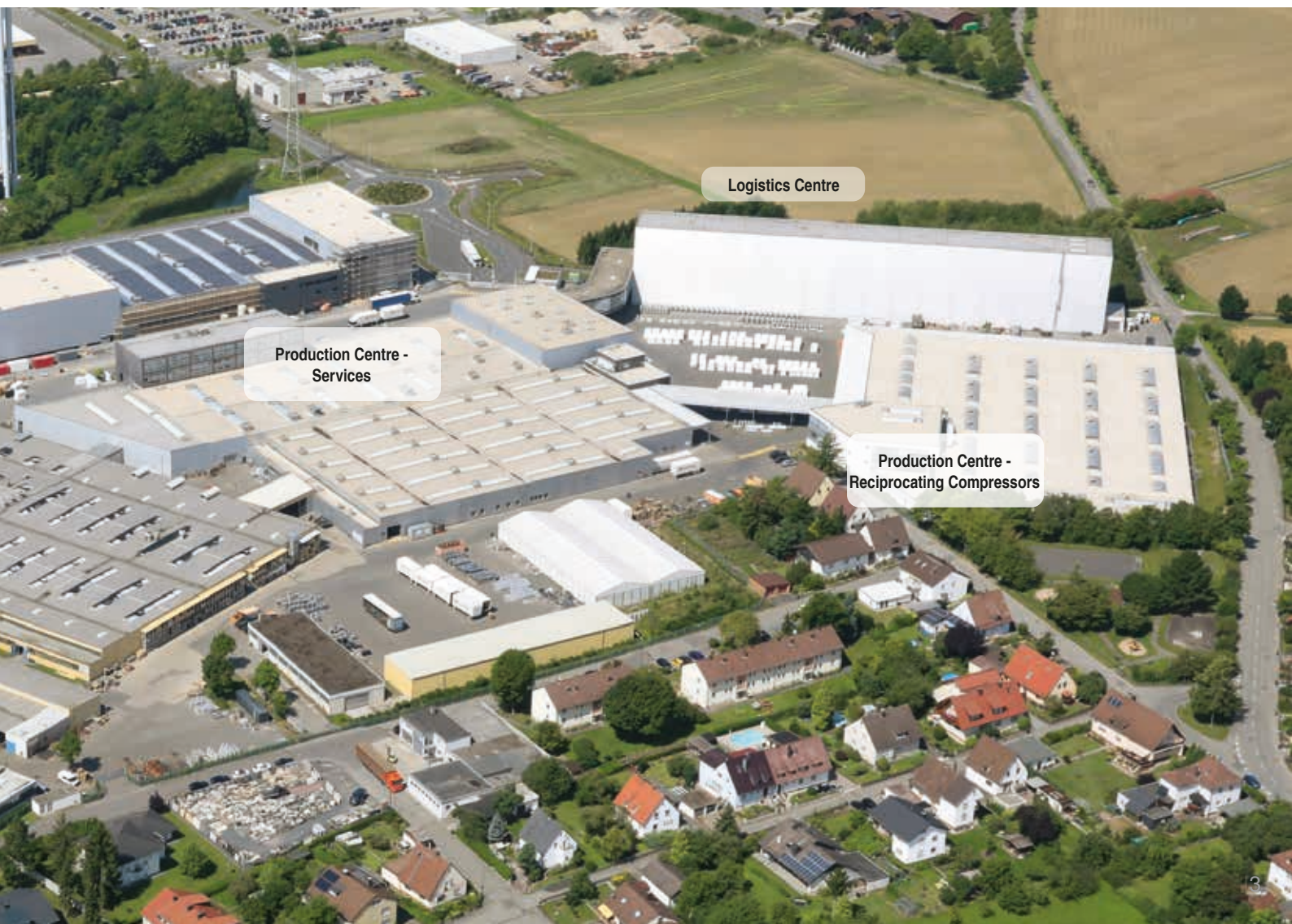
Research and  
Development Centre

Production Centre -  
Rotary Screw Compressors

Management  
Administration

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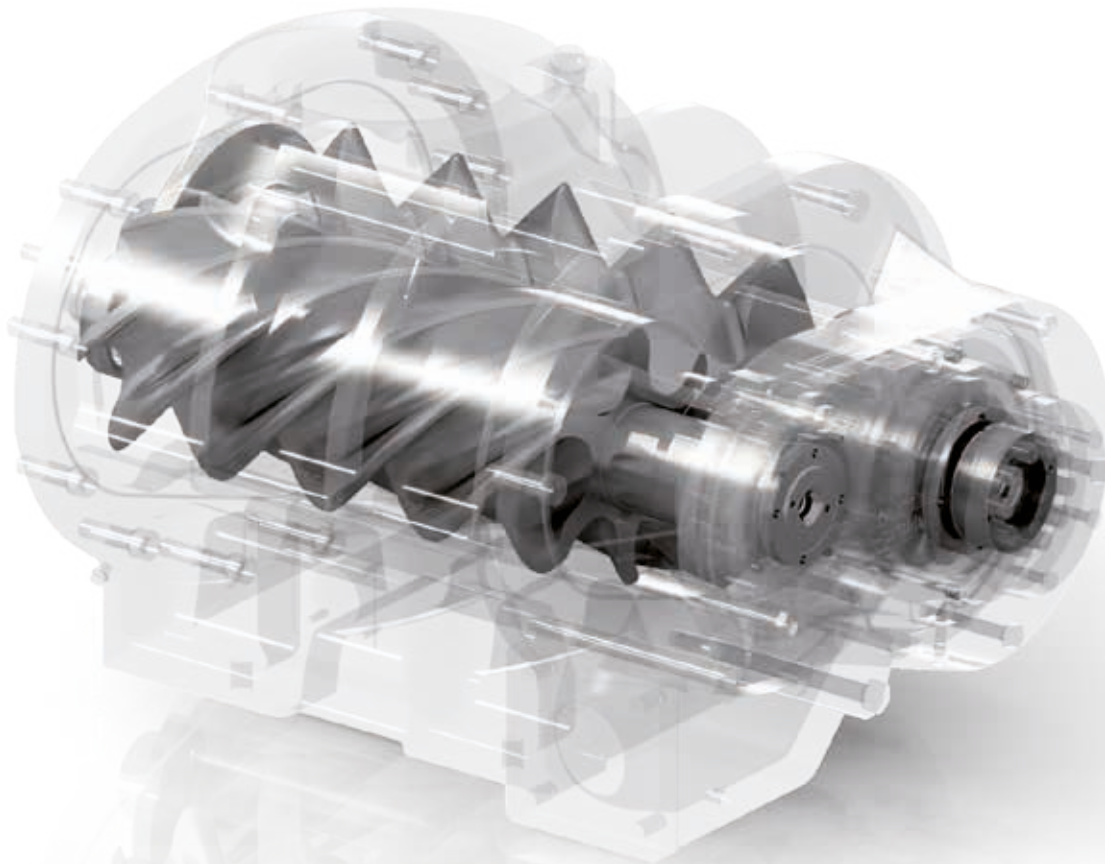


# More compressed air for less energy

## KAESER SIGMA PROFILE

Developed by KAESER and continuously enhanced ever since, the KAESER SIGMA PROFILE achieves power savings of up to 15 percent in comparison with conventional rotary screw profiles. All KAESER rotary screw airends feature this energy-saving rotor profile and are designed to

ensure maximum levels of energy efficiency when running at their optimum operating point. Generously sized, precision-aligned roller bearings and close-tolerance machining guarantee long service life and outstanding reliability.



### **Energy-saving rotary screw airend with SIGMA PROFILE rotors**

A given drive power can be used to turn a smaller airend at high speed or a larger airend at low 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 optimised rotor profiles that operate at 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 during partial load operation. KAESER offers a variety of different control modes to suit every possible operating requirement.

The SIGMA CONTROL 2 fulfils the highest possible requirements for an internal compressor controller and is based on advanced industrial computing technology. The control unit is linked to interchangeable input and output modules, allowing flexible matching to all available KAESER rotary screw compressors, rotary 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 find and reproduce faults quickly. Furthermore, the built-in web server enables you to display operating data, maintenance and alarm messages on any PC.

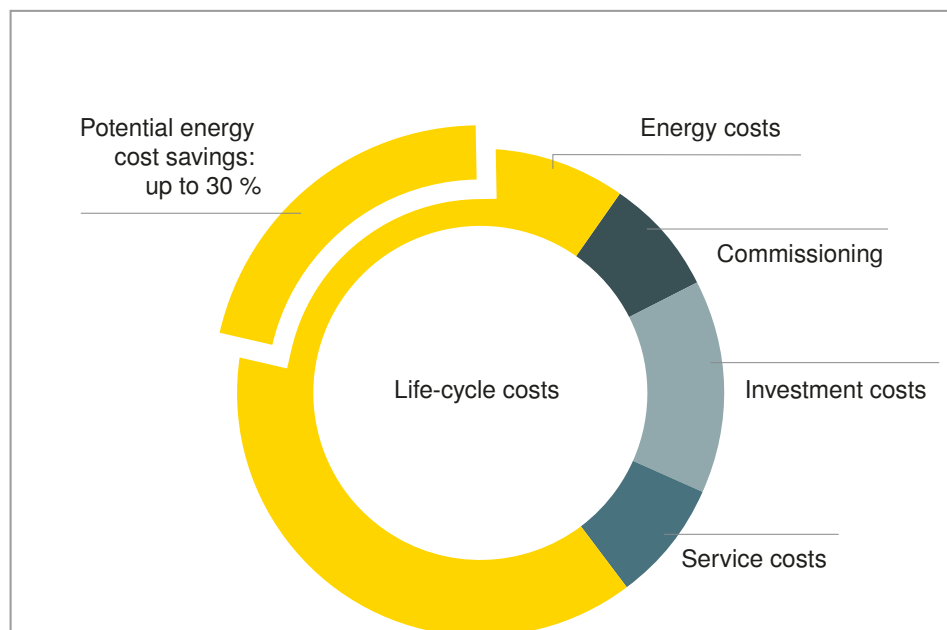
The SIGMA CONTROL 2 offers 30 selectable languages, whilst a logical menu structure simplifies operation. Software updates and operating parameters can quickly be uploaded and transferred via the convenient SD card slot. This minimises service costs and allows the SD card to be used for long-term storage of key operating 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 difference in purchase price 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 reduce their compressed air costs significantly.

Benefit the environment and save costs with heat recovery:

Reusable heat generated during compressed air production represents considerable savings potential, since 100% of the electrical energy supplied 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 reduce CO<sub>2</sub> emissions considerably. The scale of the savings depends on the size of the compressors and the primary energy source used (electricity, gas, fuel oil). It is even possible for many older compressor models to be retrofitted with a heat recovery system.



# 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<sup>1)</sup> ensures the belt drive achieves consistently high transmission efficiency over the entire service life of a KAESER rotary screw compressor. This serves to reduce maintenance costs, whilst ensuring that drive performance remains unchanged throughout the machine's life-cycle.

Moreover, the soundproofed enclosure keeps operating noise to a minimum – normal conversation can take place right beside the running compressor.

<sup>1)</sup> SX series models are equipped instead 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 the superior reliability of the compressor.



## SIGMA CONTROL 2

The internal SIGMA CONTROL 2 controller ensures efficient compressor control and monitoring at all times. 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 energy-saving SIGMA PROFILE rotors. KAESER airends are equipped with flow-optimised rotors, which contribute significantly to the overall system's class-leading specific package input power.



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-hand housing cover is easily removed, allowing excellent accessibility to all components.

*(SM 13T shown in image)*

Up to  
**96%**  
 usable for heating

### Heat recovery

Every rotary screw compressor converts a full 100% of the electrical drive energy supplied to it 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 products (optional) guarantee an efficient supply of compressed air to all purity classes as per ISO 8573-1, whilst allowing rapid and clean replacement of the filter elements.

*(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. Sight glasses allow the 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

## Complete systems up to 22 kW

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

The dryer shutdown feature (not available on SXC models), selectable via the compressor controller, is linked to operation of the compressor and significantly reduces energy consumption. All components are generously sized, yet easily accessible for maintenance and servicing work.

Thanks to the integrated refrigeration dryer, this complete compressed air station delivers high-quality air whilst protecting your equipment from corrosion damage.



### Connect and go

Simply connect a power supply and the air distribution network to this compact, complete system and it is ready for immediate operation. No further installation work is necessary.

*(SM 13 AIRCENTER shown in image)*



### SIGMA CONTROL 2 controller

The internal SIGMA CONTROL 2 controller ensures efficient compressor control and monitoring at all times. 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 energy-saving SIGMA PROFILE rotors. KAESER airends are equipped with flow-optimised rotors, which contribute significantly to the overall system's class-leading specific package input power.

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

With 1:1 direct drive, the motor drives the airend directly via a coupling without incurring any transmission losses. Direct-drive rotary screw compressors provide outstanding performance and enable significant energy savings, thanks to precisely matched, optimally adjusted airends developed and manufactured in-house by KAESER KOMPRESSOREN.

No energy is lost during power transmission. Large, low-speed airends save additional energy, whilst the 1:1 drive reduces maintenance costs.

The Electronic Thermal Management (ETM) system dynamically regulates fluid temperature. This not only saves additional energy, but also reliably prevents condensate formation and the 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, since KAESER's direct drive does not incur any transmission losses.



## SIGMA CONTROL 2 controller

The internal SIGMA CONTROL 2 controller ensures efficient compressor control and monitoring at all times. 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 energy-saving SIGMA PROFILE rotors. KAESER airends are equipped with flow-optimised rotors, which contribute significantly to the overall system's class-leading specific package input power.



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



### Required temperature assured

The innovative Electronic Thermal Management (ETM) system dynamically controls fluid temperatures according to the prevailing operating conditions, so as to ensure reliable prevention of condensate accumulation and also to boost energy efficiency.

*(ASD 60 shown in image)*

### Heat recovery

Every rotary screw compressor converts a full 100% of the electrical drive energy supplied to it 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 F-Gas Regulation EU 517/2014 is intended to minimise emissions of fluorinated greenhouse gases and therefore contribute to limiting global warming.

KAESER's new T-systems are designed to operate with R-513A refrigerant, which benefits from a very low GWP (Global Warming Potential) value. This means that these efficient dryers will remain future-proof throughout their entire life-cycle.

# KAESER modular rotary screw compressors with refrigeration dryer up to 132 kW

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

With an add-on refrigeration dryer module, these economical complete compressor stations provide a dependable supply of quality compressed air.

Because the 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 operation of the compressor, significantly reduces energy consumption.

*(CSD 105 T shown in image)*



## Dependable KAESER centrifugal separator

A KAESER centrifugal separator with electronic ECO-DRAIN condensate drain is installed upstream from the refrigeration dryer, ensuring reliable condensate pre-separation and drainage, even at high ambient temperatures and humidity levels.

*(CSD 105 SFC shown in image)*



## SIGMA CONTROL 2 controller

The internal SIGMA CONTROL 2 controller ensures efficient compressor control and monitoring at all times. 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 and upwards are equipped with KAESER's premium-efficiency 1:1 direct drive system.

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

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

## Systems with frequency-controlled synchronous reluctance motor

ASD, BSD, CSD and CSDX series models 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 rotary screw compressor equipped with variable speed control and a synchronous reluctance motor can demonstrate its energy-efficiency advantages in the partial load range to the full.



## High efficiency in partial load operation

Synchronous reluctance motors achieve significantly higher efficiency in the partial load range than asynchronous motors. This allows savings of up to 10% when compared with conventional variable-speed systems.



## Standard IEC 61800-9-2

The European Ecodesign Standard IEC 61800-9-2 defines the requirements for drive systems in electrically driven production machines. It specifies a required level of system efficiency, taking into account losses from the motor and frequency converter. With 20% lower losses as compared to the benchmark, KAESER systems meet this standard with ease.



## Maximum energy efficiency

KAESER's frequency-controlled systems meet the IES2 system efficiency standard, which represents the highest possible level under IEC 61800-9-2. The IES2 standard indicates 20% lower losses as compared to the benchmark.

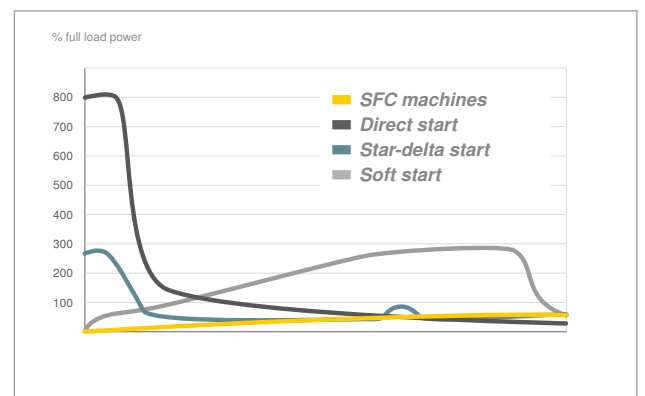


Image: ASD 60 SFC (IES2), CSDX 140 SFC (IES2, IE4)



### EMC-certified

It goes without saying that the SFC control cabinet and SIGMA CONTROL 2 controller are tested and certified both as individual components and as a complete 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 results in an almost unlimited motor starting frequency (i.e. the number of motor starts possible within a given time period without overheating). Continuously variable acceleration and deceleration significantly reduce the stress on moving components.

# Internal compressor controller: SIGMA CONTROL 2

The **SIGMA CONTROL 2** control unit coordinates compressed air generation and consumption. With its intelligent control, this advanced system prevents inefficient energy usage, especially during partial load operation.

**SIGMA CONTROL 2** fulfils the highest possible requirements for an internal compressor controller and is based on advanced industrial computing technology. The control unit is linked to interchangeable input and output modules, allowing flexible adaptation not only to all available Kaeser rotary screw compressors, but also to external communication systems.



## Troubleshooting support

The industrial PC saves the last 200 operational events, helping you and KAESER Service to find and reproduce faults quickly. Furthermore, the built-in web server enables you to display operating data, maintenance and alarm messages on any PC.



## Quick and easy updates

Software updates and operating parameters can quickly be 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 operating data.



## Designed for international use

The SIGMA CONTROL 2 offers 30 selectable languages, whilst a logical menu structure simplifies operation.



## SIGMA CONTROL 2 - network capable

ASD to HSD models can be connected to a control system via the SIGMA CONTROL 2 controller. SX to ASK models feature the additional option of operating the SIGMA CONTROL 2 itself via the control system.



Image: Plug-in communications module

# Function keys in detail

## Basic functions



ON key – Green LED – switches the compressor “ON” -> automatic self-control operation, 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”.



Controller voltage ON icon – Green LED – indicates “Main switch ON, mains and supply voltage present”.

## Menu functions



UP key scrolls display text line-by-line upwards.



DOWN key scrolls display text line-by-line downwards.



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



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



Escape key returns to next highest menu level.



Return key initiates jump to next submenu or accepts value.



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



Info key calls up current event information.

## Additional functions



Idle mode 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”.

# Information technology – Tailored system solutions

## SIGMA AIR MANAGEMENT SYSTEM

The refined, adaptive 3-D<sup>advanced</sup> Control predictively calculates and compares the various operating options and selects the most efficient one to suit the specific needs of the application. 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<sup>advanced</sup> 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 to be gathered and displayed easily.

(1)

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

- Adaptive 3D<sup>advanced</sup> 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 expansion of the compressed air station – no change of hardware required
- 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 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, ISO 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)
- 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 compressors equipped with SIGMA CONTROL 2 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 easily be connected using the (optional) SNW-PROFIBUS-Master



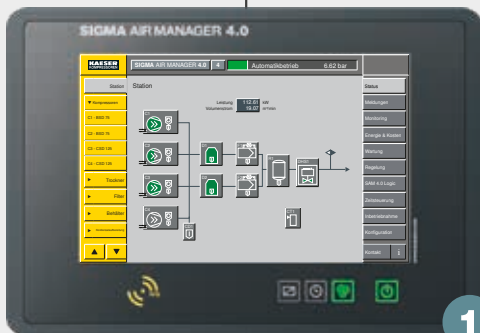
3

Digital output device, e.g. laptop



Control centre

KAESER CONNECT

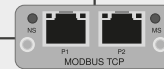


1

SIGMA AIR MANAGER 4.0

Communications module, e.g. Modbus TCP

2



4

# KAESER SIGMA NETWORK

6

SIGMA NETWORK PROFIBUS Master

5



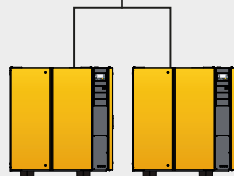
Controller: SIGMA CONTROL 2



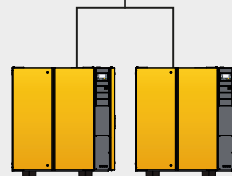
Controller: SIGMA CONTROL



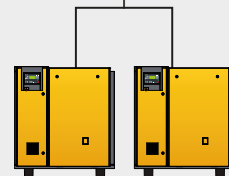
Various connection possibilities for treatment components



Connection of conventional compressors possible



Connection of compressors with SIGMA CONTROL 2



Connection of compressors with SIGMA CONTROL; connection to stations with SIGMA 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 tooling machines.

Dedicated and highly qualified personnel draw on years of engineering experience to ensure unrivalled product quality and consistency. Production tolerances are continuously

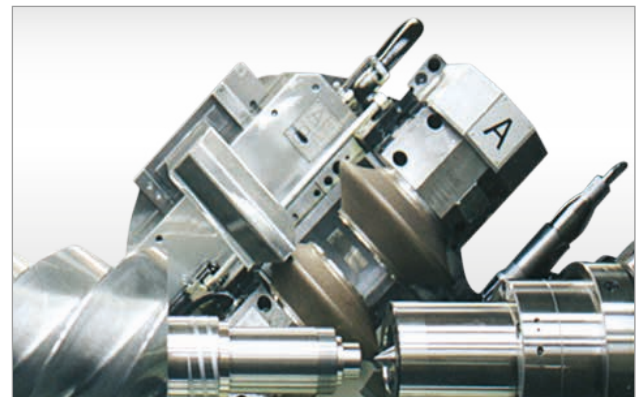
monitored using precision 3-D measuring equipment that detects variations with micron accuracy (see right side of the large image below).





## Future-oriented

Efficiency, reliability and exceptional maintenance-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, so as to maintain and extend KAESER's competitive edge and to deliver continuous product innovation.



## Meticulous assembly

All airends and compressor systems are assembled to the highest standards by 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 a detailed inspection for fitting accuracy and interplay.

## Flexible machining centres

Rotors and housings 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 world's largest compressor manufacturers and compressed air system providers, KAESER KOMPRESSOREN is represented globally by a highly professional sales and service network that ensures KAESER products and services operate at the peak of performance at all times and with maximum availability.

One of the key requirements for any compressed air application is maximum compressed air availability. This can only be achieved 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 7 days a week, 24 hours a day.

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



## Maximum availability

Global networking and data communications enable remote diagnosis and demand-oriented maintenance of Internet-compatible KAESER products. This technology assures enhanced availability and optimised overall efficiency for your compressed air supply.



### 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 whenever you need it, wherever you need it.



### Genuine KAESER parts

KAESER's service personnel use only genuine maintenance and spare parts of proven long-term quality, so as to ensure functional reliability and a long service life. Only KAESER genuine parts can guarantee tested quality and legal certainty.

# 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 extraction, testing, packaging, drying, and degassing processes as they are to filtration applications or the filling of bottles and tubes. These systems are also equipped with the advanced, industrial PC-based SIGMA CONTROL 2 compressor controller.



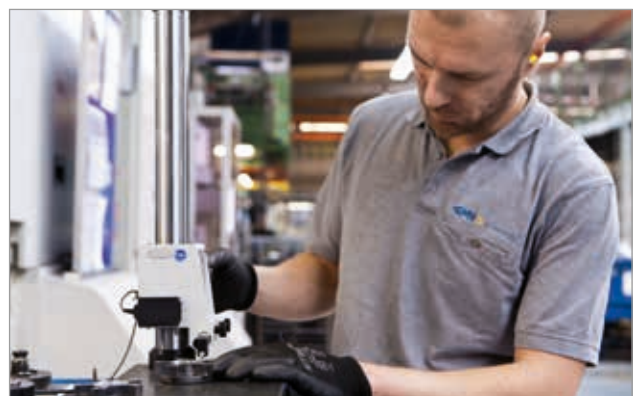
## PET bottle production

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, blowing air) and efficient refrigeration drying. In addition to outstanding operational reliability, users benefit from low investment and operating costs.



## Pressure and vacuum applications

KAESER rotary lobe or rotary screw blowers are used in pressure / vacuum applications such as aerating wastewater clarifiers, conveying powder or granular materials, drying, suction cleaning, testing and packaging.



## Workshops, trades and industry

The majority of industrial compressed air requirements are met by rotary screw compressors, which are also increasingly being used for trades and workshop applications. KAESER rotary screw compressors with the SIGMA PRO-FILE reflect this growing trend, since more than 200,000 of these economical and reliable systems are currently in service across the globe.





# SX – ASK series

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

Model	Gauge working pressure	Flow rate, <sup>1)</sup> complete system at gauge working pressure	Max. gauge pressure	Drive motor rated power	Dimensions W x D x H	Compressed air connection	Sound pressure level <sup>2)</sup>	Mass
	bar							
<b>SX 3</b>	7.5	0.34	8	2.2	590 x 632 x 970	G ¾	59	140
	10	0.26	11					
	7.5	0.45	8					
	10	0.36	11					
<b>SX 4</b>	13	0.26	15	3	590 x 632 x 970	G ¾	60	140
	7.5	0.60	8					
	10	0.48	11					
<b>SX 6</b>	13	0.37	15	4	590 x 632 x 970	G ¾	61	145
	7.5	0.80	8					
<b>SX 8</b>	10	0.67	11	5.5	590 x 632 x 970	G ¾	64	155
	13	0.54	15					
	7.5	0.94	8					
<b>SM 10</b>	10	0.78	11	5.5	630 x 790 x 1100	G ¾	62	220
	13	0.60	15					
	7.5	1.32	8					
<b>SM 13</b>	10	1.08	11	7.5	630 x 790 x 1100	G ¾	65	240
	13	0.85	15					
	7.5	1.62	8					
<b>SM 16</b>	10	1.36	11	9	630 x 790 x 1100	G ¾	66	240
	13	1.09	15					
	7.5	2.16	6					
<b>SK 22</b>	10	1.68	11	11	750 x 895 x 1260	G 1	67	312
	13	1.32	15					
	7.5	2.00	8					
<b>SK 25</b>	10	2.11	11	15	750 x 895 x 1260	G 1	68	320
	13	1.72	15					
	7.5	2.50	8					
<b>ASK 28</b>	10	2.40	11	15	800 x 1100 x 1530	G 1 ¼	65	485
	13	1.93	15					
	6	3.87	6					
	7.5	3.51	8					
<b>ASK 34</b>	10	3.00	11	18.5	800 x 1100 x 1530	G 1 ¼	67	505
	13	2.50	15					
	6	4.45	6					
<b>ASK 40</b>	7.5	4.06	8	22	800 x 1100 x 1530	G 1 ¼	69	525
	10	3.52	11					
	13	2.94	15					
	6	4.45	6					

<sup>1)</sup> Performance data as per ISO 1217:2009, Annexe C

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

# ASD – CSDX series

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

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

<sup>1)</sup> Performance data as per ISO 1217:2009, Annexe C

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

# DSD – HSD series

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

Model	Gauge working pressure	Flow rate, <sup>1)</sup> complete system at gauge working pressure	Max. gauge pressure	Drive motor rated power	Dimensions W x D x H	Compressed air connection	Sound pressure level <sup>2)</sup>	Mass
	bar							
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

<sup>1)</sup> Performance data as per ISO 1217:2009, Annexe C

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

# SXC series - AIRCENTER SX / SM / SK

## Modular rotary screw compressors with refrigeration dryer and air receiver - up to 15 kW

Model	Gauge working pressure	Flow rate, <sup>1)</sup> complete system at gauge working pressure	Max. gauge pressure	Drive motor rated power	Refrigeration dryer model	Air receiver capacity	Dimensions W x D x H	Compressed air connection	Sound pressure level <sup>2)</sup>	Mass
	bar									
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

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	6	2.16	6	11	ABT 25	350	750 x 1370 x 1880	G 1	67	579
	7.5 10 13	2.00 1.68 1.32	8 11 15						66	
AIRCENTER 25	6	2.69	6	15	ABT 25	350	750 x 1370 x 1880		68	587
	7.5 10 13	2.50 2.11 1.72	8 11 15						67	

## Technical specifications for add-on refrigeration dryer

Model	Refrigeration dryer power consumption	Pressure dew point	Refrigerant	Refrigerant charge	Global warming potential	CO <sub>2</sub> equivalent	Hermetic refrigeration circuit
	kW						
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

# SX T – DSD T series

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

Model	Gauge working pressure	Flow rate, <sup>1)</sup> complete system at gauge working pressure	Max. gauge pressure	Drive motor rated power	Refrigeration dryer model	Dimensions W x D x H	Compressed air connection	Sound pressure level <sup>2)</sup>	Mass
	bar	m <sup>3</sup> /min	bar	kW		mm		dB(A)	kg
SX 3 T	7.5	0.34	8	2.2	ABT 4	590 x 905 x 970	G ¾	59	185
	10	0.26	11						
SX 4 T	7.5	0.45	8	3	ABT 4	590 x 905 x 970		60	185
	10	0.36	11						
	13	0.26	15						
SX 6 T	7.5	0.60	8	4	ABT 8 ABT 4 ABT 4	590 x 905 x 970	61	190	
	10	0.48	11						
	13	0.37	15						
SX 8 T	7.5	0.80	8	5.5	ABT 8 ABT 8 ABT 4	590 x 905 x 970	64	200	
	10	0.67	11						
	13	0.54	15						
SM 10 T	7.5	0.94	8	5.5	ABT 15	630 x 1090 x 1100	G ¾	62	295
	10	0.78	11						
	13	0.60	15						
SM 13 T	7.5	1.32	8	7.5	ABT 15	630 x 1090 x 1100		65	315
	10	1.08	11						
	13	0.85	15						
SM 16 T	7.5	1.62	8	9	ABT 15	630 x 1090 x 1100	66	315	
	10	1.36	11						
	13	1.09	15						
SK 22 T	6	2.16	6	11	ABT 25	750 x 1240 x 1260	G 1	67	387
	7.5	2.00	8						
	10	1.68	11						
13	1.32	15							
SK 25 T	6	2.69	6	15	ABT 25	750 x 1240 x 1260	68	395	
	7.5	2.50	8						
	10	2.11	11						
13	1.72	15							
ASK 28 T	6	3.17	6	15	ABT 40	800 x 1460 x 1530	G 1 ¼	65	580
	7.5	2.86	8						
	10	2.40	11						
	13	1.93	15						
ASK 34 T	6	3.87	6	18.5	ABT 40	800 x 1460 x 1530	G 1 ¼	67	600
	7.5	3.51	8						
	10	3.00	11						
	13	2.50	15						
ASK 40 T	6	4.45	6	22	ABT 40	800 x 1460 x 1530	G 1 ¼	69	620
	7.5	4.06	8						
	10	3.52	11						
	13	2.94	15						
ASD 35 T	7.5	3.16	8.5	18.5	ABT 60	1770 x 900 x 1530	G 1 ¼	65	705
	10	2.63	12						
ASD 40 T	7.5	3.92	8.5	22	ABT 60	1770 x 900 x 1530		66	750
	10	3.13	12						
	13	2.58	15						
ASD 50 T	7.5	4.58	8.5	25	ABT 60	1770 x 900 x 1530	66	790	
	10	3.85	12						
	13	3.05	15						
ASD 60 T	7.5	5.53	8.5	30	ABT 60	1770 x 900 x 1530	69	845	
	10	4.49	12						
	13	3.71	15						
BSD 65 T	7.5	5.65	8.5	30	ABT 83	1990 x 1030 x 1700	G 1 ½	69	1100
	10	4.52	12						
	13	3.76	15						
BSD 75 T	7.5	7.00	8.5	37	ABT 83	1990 x 1030 x 1700		70	1115
	10	5.60	12						
	13	4.43	15						
BSD 83 T	7.5	8.16	8.5	45	ABT 83	1990 x 1030 x 1700	71	1190	
	10	6.85	12						
	13	5.47	15						

<sup>1)</sup> Performance data as per ISO 1217:2009, Annexe C

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

Model	Gauge working pressure	Flow rate, <sup>1)</sup> complete system at gauge working pressure	Max. gauge pressure	Drive motor rated power	Refrigeration dryer model	Dimensions W x D x H	Compressed air connection	Sound pressure level <sup>2)</sup>	Mass	
	bar	m <sup>3</sup> /min	bar	kW	kW	mm		dB(A)	kg	
CSD 85 T	7.5	8.26	8.5	45	ABT 105	2160 x 1110 x 1900	G 2	70	1410	
	10	6.89	12							
	13	5.50	15							
CSD 105 T	7.5	10.14	8.5	55	ABT 105	2160 x 1110 x 1900		G 2	71	1450
	10	8.18	12							
	13	6.74	15							
CSD 125 T	7.5	12.02	8.5	75	ABT 125	2160 x 1110 x 1900	G 2		72	1510
	10	10.04	12		ABT 105					
	13	8.06	15							
CSDX 140 T	7.5	13.74	8.5	75	ABT 165	2510 x 1290 x 1950		G 2	71	2045
	10	11.83	12							
	13	9.86	15							
CSDX 165 T	7.5	16.16	8.5	90	ABT 165	2510 x 1290 x 1950	G 2		72	2140
	10	13.53	12							
	13	11.49	15							
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	16.92	8.5	90	ABT 250	2750 x 1730 x 2150			70	3630
	10	13.60	12							
DSD 205 T	7.5	21.00	8.5	110	ABT 250	2750 x 1730 x 2150	DN 65		72	3630
	10	16.59	12							
	13	13.06	15							
DSD 240 T	7.5	25.15	8.5	132	ABT 250	2750 x 1730 x 2150		DN 65	74	3700
	10	20.40	12							
	13	16.15	15							

## Technical specifications for add-on refrigeration dryer

Model	Refrigeration dryer power consumption	Pressure dew point	Refrigerant	Refrigerant charge	Global warming potential	CO <sub>2</sub> equivalent	Hermetic refrigeration circuit
	kW	°C		kg	GWP	t	
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	–

# SM – CSDX SFC series

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

Model	Gauge working pressure	Flow rate, <sup>1)</sup> complete system at gauge working pressure	Max. gauge pressure	Drive motor rated power	Min. pressure bandwidth	Speed range min. – max.	Dimensions W x D x H	Compressed air connection	Sound pressure level <sup>2)</sup>	Mass
	bar	m <sup>3</sup> /min	bar	kW	bar	rpm	mm		dB(A)	
SM 13 SFC	7.5	0.39 - 1.40	8	7.5	± 0.1	1200 - 3766 1500 - 3884 2000 - 4025	630 x 790 x 1100	G ¾	67	250
	10	0.40 - 1.19	11							
	13	0.42 - 0.95	15							
SK 22 SFC	7.5	0.62 - 1.98	8	11	± 0.1	1200 - 3510 1500 - 3552 1800 - 3660	750 x 895 x 1260	G 1	67	329
	10	0.63 - 1.67	11							
	13	0.57 - 1.38	15							
SK 25 SFC	7.5	0.81 - 2.55	8	15	± 0.1	1200 - 3660 1500 - 3696 1800 - 3872	750 x 895 x 1260	G 1	68	337
	10	0.84 - 2.25	11							
	13	0.83 - 1.91	15							
ASK 34 SFC	7.5	0.94 - 3.60	8	18.5	± 0.1	1060 - 3691 1075 - 3752 1420 - 3865	800 x 1100 x 1530	G 1 ¼	68	530
	10	0.80 - 3.14	11							
	13	0.88 - 2.70	15							
ASK 40 SFC	7.5	0.94 - 4.19	8	22	± 0.1	900 - 3692 900 - 3741 1200 - 3870	800 x 1100 x 1530	G 1 ¼	70	550
	10	0.80 - 3.71	11							
	13	0.88 - 3.17	15							
ASD 35 SFC	7.5	0.88 - 4.00	8.5	22	± 0.1	767 - 3033	1540 x 900 x 1530	G 1 ¼	67	700
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	1.07 - 5.27	8.5	25	± 0.1	750 - 3433 900 - 3550 900 - 3100	1540 x 900 x 1530	G 1 ¼	68	735
	10	1.00 - 4.58	13							
	13	0.93 - 3.82	13							
ASD 60 SFC	7.5	1.26 - 6.17	8.5	30	± 0.1	750 - 3330 900 - 3750 900 - 3366	1540 x 900 x 1530	G 1 ¼	70	795
	10	1.00 - 4.76	15							
	13	0.93 - 4.14	15							
BSD 75 SFC	7.5	1.54 - 7.44	10	37	± 0.1	900 - 3933 900 - 3500 900 - 3719	1665 x 1030 x 1700	G 1 ½	72	1020
	10	1.51 - 6.51	10							
	13	1.16 - 5.54	15							
CSD 85 SFC	7.5	1.99 - 8.37	8.5	45	± 0.1	900 - 3600 900 - 3833 900 - 4082	1760 x 1110 x 1900	G 2	72	1220
	10	1.49 - 7.21	12							
	13	1.16 - 6.15	15							
CSD 105 SFC	7.5	2.32 - 10.01	8.5	55	± 0.1	900 - 3643 900 - 3835 900 - 4077	1760 x 1110 x 1900	G 2	73	1280
	10	1.91 - 8.79	12							
	13	1.39 - 7.41	15							
CSD 125 SFC	7.5	2.90 - 12.22	8.5	75	± 0.1	900 - 3707 900 - 3965 900 - 4094	1760 x 1110 x 1900	G 2	74	1300
	10	2.22 - 10.74	12							
	13	1.81 - 8.98	15							
CSDX 140 SFC	7.5	3.46 - 13.37	8.5	75	± 0.1	900 - 3360 900 - 3540 900 - 3734	2110 x 1290 x 1950	G 2	72	1650
	10	2.82 - 11.6	12							
	13	2.13 - 10.04	15							
CSDX 165 SFC	7.5	3.87 - 16.03	8.5	90	± 0.1	900 - 3563 900 - 3573 900 - 3710	2110 x 1290 x 1950	G 2	73	1750
	10	3.34 - 13.91	12							
	13	2.68 - 11.84	15							

<sup>1)</sup> Performance data as per ISO 1217:2009, Annexe E

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



# DSD – HSD SFC series

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

Model	Gauge working pressure	Flow rate, <sup>1</sup> complete system at gauge working pressure	Max. gauge pressure	Drive motor rated power	Min. pressure bandwidth	Speed range min. – max.	Dimensions W x D x H	Compressed air connection	Sound pressure level <sup>2)</sup>	Mass
	bar	m <sup>3</sup> /min	bar	kW	bar	rpm	mm		dB(A)	kg
DSD 145 SFC	7.5	3.67 - 15.73	8.5	75	± 0.1	450 - 1667	2690 x 1730 x 2150	DN 65	70	3190
DSD 175 SFC	7.5 10	3.67 - 18.43 3.50 - 15.60	10	90	± 0.1	450 - 1942 450 - 1700	2690 x 1730 x 2150		71	3330
DSD 205 SFC	7.5 10 13	4.45 - 21.22 4.20 - 18.30 4.97 - 15.16	10 10 15	110	± 0.1	450 - 1883 450 - 1645 650 - 1713	2690 x 1730 x 2150		73	3340
DSD 240 SFC	7.5 10 13	5.57 - 23.47 5.33 - 20.08 4.96 - 16.57	8.5 12 15	132	± 0.1	450 - 1673 550 - 1800 650 - 1877	2690 x 1730 x 2150		75	3670
DSDX 245 SFC	7.5 10 13	5.57 - 27.17 5.58 - 32.35 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	8.60 - 37.60 8.22 - 32.51 6.40 - 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	10.60 - 43.20 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	10.60 - 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 12.90 - 50.85 11.55 - 45.00	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 8.50 - 57.50	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

# AIRCENTER SFC – DSD T SFC series

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

Model	Gauge working pressure	Flow rate, <sup>1)</sup> complete system at gauge working pressure	Max. gauge pressure	Drive motor rated power	Speed range min. – max.	Refrigeration dryer model	Dimensions W x D x H	Compressed air connection	Sound pressure level <sup>2)</sup>	Mass
	bar	m <sup>3</sup> /min	bar	kW	rpm	mm	dB(A)			
AIRCENTER 13 SFC	7.5	0.39 - 1.40	8	7.5	1200 - 3766	ABT 15	630 x 1220 x 1720	G ¾	67	450
	10	0.40 - 1.19	11		1500 - 3884					
	13	0.42 - 0.95	15		2000 - 4025					
AIRCENTER 22 SFC	7.5	0.62 - 1.98	8	11	1200 - 3510	ABT 25	750 x 1370 x 1880	G 1	67	596
	10	0.63 - 1.67	11		1500 - 3552					
	13	0.57 - 1.38	15		1800 - 3660					
AIRCENTER 25 SFC	7.5	0.81 - 2.55	8	15	1200 - 3660	ABT 25	750 x 1370 x 1880	G 1	68	604
	10	0.84 - 2.25	11		1500 - 3696					
	13	0.83 - 1.91	15		1800 - 3872					
SM 13 T SFC	7.5	0.39 - 1.40	8	7.5	1200 - 3766	ABT 15	630 x 1090 x 1100	G ¾	67	325
	10	0.40 - 1.19	11		1500 - 3884					
	13	0.42 - 0.95	15		2000 - 4025					
SK 22 T SFC	7.5	0.62 - 1.98	8	11	1200 - 3510	ABT 25	750 x 1240 x 1260	G 1	67	404
	10	0.63 - 1.67	11		1500 - 3652					
	13	0.57 - 1.38	15		1800 - 3660					
SK 25 T SFC	7.5	0.81 - 2.55	8	15	1200 - 3660	ABT 25	750 x 1240 x 1260	G 1	68	412
	10	0.84 - 2.25	11		1500 - 3696					
	13	0.83 - 1.91	15		1800 - 3872					
ASK 34 T SFC	7.5	0.94 - 3.60	8	18.5	1060 - 3691	ABT 40	800 x 1460 x 1530	G 1 ¼	68	625
	10	0.80 - 3.14	11		1075 - 3752					
	13	0.88 - 2.70	15		1420 - 3865					
ASK 40 T SFC	7.5	0.94 - 4.19	8	22	800 - 3672	ABT 40	800 x 1460 x 1530	G 1 ¼	70	645
	10	0.80 - 3.71	11		900 - 3741					
	13	0.88 - 3.18	15		1200 - 3870					
ASD 35 T SFC	7.5	0.88 - 4.00	8.5	22	767 - 3033	ABT 60	1540 x 900 x 1530	G 1 ¼	67	795
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	1.07 - 5.27	8.5	25	750 - 3433	ABT 60	1850 x 900 x 1530	G 1 ¼	68	830
	10	1.00 - 4.58	13		900 - 3550					
	13	0.93 - 3.82	13		900 - 3100					
ASD 60 T SFC	7.5	1.26 - 6.17	8.5	30	750 - 3330	ABT 60	1850 x 900 x 1530	G 1 ¼	70	890
	10	1.00 - 4.76	15		900 - 3750					
	13	0.93 - 4.14	15		900 - 3366					
BSD 75 T SFC	7.5	1.54 - 7.40	10	37	900 - 3933	ABT 83	2080 x 1005 x 1700	G 1 ½	72	1200
	10	1.51 - 6.51	10		900 - 3500					
	13	1.16 - 5.54	15		900 - 3719					
CSD 85 T SFC	7.5	1.99 - 8.37	8.5	45	900 - 3600	ABT 105	2160 x 1110 x 1900	G 2	72	1380
	10	1.49 - 7.21	12		900 - 3833					
	13	1.16 - 6.15	15		900 - 4082					
CSD 105 T SFC	7.5	2.32 - 10.01	8.5	55	900 - 3643	ABT 105	2160 x 1110 x 1900	G 2	73	1440
	10	1.91 - 8.79	12		900 - 3835					
	13	1.39 - 7.41	15		900 - 4077					
CSD 125 T SFC	7.5	2.9 - 12.22	8.5	75	900 - 3707	ABT 125	2160 x 1110 x 1900	G 2	74	1490
	10	2.22 - 10.74	12		900 - 3965	ABT 105				
	13	1.81 - 8.98	15							

<sup>1)</sup> Performance data as per ISO 1217:2009, Annexe E

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

Model	Gauge working pressure	Flow rate, <sup>1)</sup> complete system at gauge working pressure	Max. gauge pressure	Drive motor rated power	Speed range min. – max.	Refrigeration dryer model	Dimensions W x D x H	Compressed air connection	Sound pressure level <sup>2)</sup>	Mass
	bar	m <sup>3</sup> /min	bar	kW	rpm	mm	dB(A)		kg	
<b>CSDX 140 T SFC</b>	7.5	3.46 - 13.37	8.5	75	900 - 3360	ABT 165	2510 x 1290 x 1950	G 2	72	2050
	10	2.82 - 11.60	12		900 - 3540					
	13	2.13 - 10.04	15		900 - 3734					
<b>CSDX 165 T SFC</b>	7.5	3.87 - 16.03	8.5	90	900 - 3563	ABT 165	2510 x 1290 x 1950	G 2	73	2240
	10	3.34 - 13.91	12		900 - 3573					
	13	2.68 - 11.84	15		900 - 3710					

<b>DSD 145 T SFC</b>	7.5	3.67 - 15.73	8.5	75	450 - 1667	ABT 250	2990 x 1730 x 2150	DN 65	70	3470
<b>DSD 175 T SFC</b>	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
<b>DSD 205 T SFC</b>	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
<b>DSD 240 T SFC</b>	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 dryer

Model	Refrigeration dryer power consumption	Pressure dew point	Refrigerant	Refrigerant charge	Global warming potential	CO <sub>2</sub> equivalent	Hermetic refrigeration circuit
	kW	°C		kg	GWP	t	
<b>ABT 4</b>	0.18	+3	R-513A	0.17	631	0.1	Yes
<b>ABT 8</b>	0.28	+3	R-513A	0.24	631	0.2	Yes
<b>ABT 15</b>	0.37	+3	R-513A	0.35	631	0.2	Yes
<b>ABT 25</b>	0.41	+3	R-513A	0.62	631	0.4	Yes
<b>ABT 40</b>	0.60	+3	R-513A	0.57	631	0.4	–
<b>ABT 60</b>	0.80	+3	R-513A	0.75	631	0.5	–
<b>ABT 83</b>	0.90	+3	R-513A	1.20	631	0.8	–
<b>ABT 105</b>	0.92	+3	R-513A	1.45	631	0.9	–
<b>ABT 125</b>	1.30	+3	R-513A	1.65	631	1.0	–
<b>ABT 165</b>	1.38	+3	R-513A	1.50	631	0.9	–
<b>ABT 250</b>	1.80	+3	R-513A	1.35	631	0.9	–

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