Rotary Screw Compressors
SX–HSD Series
With the world-renowned SIGMA PROFILE
Flow rate: 0.26 to 86 m³/min; Pressures 5.5 to 15 bar
www.kaeser.com
KAESER was established in 1919 as a machine workshop, but started on the road to becoming one of the world’s leading compressed air system providers in the 1950s when founder, Carl Kaeser Snr, made the decision to start manufacturing reciprocating compressors.

The breakthrough on the road to today’s market-leading position among the world’s top compressed air system suppliers came when KAESER developed the rotary screw airend featuring the SIGMA PROFILE.

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

Main plant, Coburg

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

KAESER KOMPRESSOREN – The global compressed air systems provider

More air, more savings... KAESER rotary screw compressors with belt drive

KAESER rotary screw compressors – Modular design with refrigeration dryer

KAESER rotary screw compressors with SIGMA FREQUENCY CONTROL

Information technology – Tailored system solutions

Expert advice and professional customer care: KAESER AIR SERVICE

More and more users choose KAESER Kompressoren

Technical specifications
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.

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

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

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

Benefit the environment and save costs with heat recovery:
Reusable heat generated during compressed air production represents a considerable potential saving, since 100 percent of the energy fed to a compressor is converted into heat. This is energy that can be utilised. In fact, up to 96% of the energy that is used to produce compressed air remains available for reuse. This not only enables huge annual financial savings, but also helps to considerably reduce CO₂ emissions. The scale of the savings effect depends on the size of the compressors and the primary energy source that is used (electricity, gas, fuel oil). Moreover, many older compressor models can even be retrofitted to provide heat recovery.
KAESER rotary screw compressors with belt drive – to 22 kW

Efficient KAESER V-belt drive

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

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

How KAESER rotary screw compressors work

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

SIGMA CONTROL 2

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

Automatic belt tensioning

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

* Excluding SX series models

Cooling air filter mats

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

IE3 energy saving motors

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

Save energy with the KAESER SIGMA PROFILE®

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

Kompresor with belt drive – to 22 kW

Compressors with belt drive:
Series: SX – AXK
Motor power: 2.2 to 22 kW
Flow rate: 0.26 to 4.65 m³/min
Standard pressures: 8 / 11 / 15 bar(g)

Automatic belt tensioning

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

* Excluding SX series models

Cooling air filter mats

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

IE3 energy saving motors

Needless to say, KAESER rotary screw compressors (from SM series upwards) are equipped with premium efficiency IE3 drive motors.
KAESER rotary screw compressors with 1:1 drive – up to 500 kW

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

**Triple savings with 1:1 drive:**
- No power transmission losses.
- Large, low speed airends provide more air for less energy consumption.
- Reduced maintenance costs.

**Unique cooling air flow**
KAESER’s unique cooling air flow concept provides significant advantages compared to conventional systems: The air is drawn in via the cooler to the cooler cabinet and is directly exhaust-ed upwards. Consequently, the inside of the unit remains untouched by the main cooling air flow and contaminant particles contained in the air collect on the air intake side of the cooler.

Clogging is easily noticed and quickly cleaned off without the need for any dismantling work. Operational reliability is improved and maintenance requirement is significantly reduced.

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

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

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

**Energy-saving 1:1 drive**
The motor and airend are joined by the coupling and its housing to form a compact and durable unit that is virtually maintenance-free. Furthermore, reliability and service life are increased through elimination of wear and transmission losses, as 1:1 drive reduces the number of components needed in comparison with gear drive.

**SIGMA CONTROL 2**
The control unit features an easy to read display and durable input keys; all relevant information can be viewed at a glance. User-friendliness is further enhanced by the logical menu structure coupled with the ability to display data in any one of 30 selectable languages.

**Compressed air outlet**
KAESER rotary screw compressors
All-in-one systems – up to 22 kW

Space-saving combination of rotary screw compressor and refrigeration dryer
With KAESER’s intelligent system design, the compressor and refrigeration dryer are both completely separate, independently functioning modules. This protects the dryer from exposure to heat from the compressor package thereby enhancing reliability.

Energy saving refrigeration dryer
The dryer shut-down feature*, which can be selected via the compressor controller, is linked to compressor operation and significantly reduces energy consumption. All components are generously sized yet are easily accessible for maintenance and servicing work.
* Not applicable to SXC models.

Aircenter and SXC: Compact compressed air systems
The KAESER AIRCENTER is a complete, turn-key system designed for the production of dried compressed air.

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

All-in-one systems:
Series: SX C
Motor power: 2.2 to 5.5 kW
Flow rate: 0.26 to 0.8 m³/min
Standard pressures: 8 / 11 / 15 bar(g)
Equipped with SIGMA CONTROL BASIC

Series: AIRCENTER
Motor power: 2.2 to 15 kW
Flow rate: 0.26 to 2.2 m³/min
Standard pressures: 8 / 11 / 15 bar(g)
Version with refrigeration dryer only:
Series: SX C T, SM C T, SK C T and ASK C T
Motor power: 2.2 to 22 kW
Flow rate: 2.30 to 5.35 m³/min
Standard pressures: 8 / 11 / 15 bar(g)

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

The all-in-one solution with energy-saving rotary screw compressor
There are also significant benefits to saving energy even with smaller rotary screw compressors. For example, a 20 % reduction in energy consumption with a 5.5 kW machine and 1000 operating hours per year translates into an annual saving of 1100 kWh and a 660 kg reduction in CO₂ emissions.

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

The all-in-one solution with air receiver
SXC units are equipped with an internally coated compressed air receiver. The receiver performs 3 important functions: It cools the compressed air, stores it and pre-separates condensate. Accumulating condensate is reliably and efficiently removed – without pressure loss – via an electronically controlled condensate drain.
KAESER rotary screw compressors
Modular design with refrigeration dryer – up to 132 kW

The innovative ASD T to DSD T series
These advanced rotary screw compressors are versatile, reliable and highly efficient.

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

Because the air compressor and refrigeration dryer are installed in separate cabinets, the dryer is shielded from exposure to heat from the compressor package, which consequently enhances reliability.

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

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

Turnkey operation
Attached to the compressor unit, the refrigeration dryer module is delivered fully connected and ready for operation. The separate cabinet design allows the dryer components to be generously sized yet easily accessible and shields the dryer from exposure to heat arising from the compression process.

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

The high performance cooling system ensures reliable air package operation up to an ambient temperature of +45 °C.

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

Energy cost savings through system optimisation

SIGMA CONTROL 2
The control unit features an easy to read display and durable input keys; all relevant information can be viewed at a glance. User-friendliness is further enhanced by the logical menu structure coupled with the ability to display data in any one of 30 selectable languages.

The innovative ASD T to DSD T series
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Energy saving refrigeration dryer
The dryer shut-down feature, which is linked to compressor operation, significantly reduces energy consumption.
Uncompromising efficiency

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

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

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

Ultimate efficiency with 1:1 drive

Significantly increasing reliability and service life, 1:1 drive (available with ASD SFC series upwards) reduces the number of components needed in comparison with gear drive and eliminates the associated transmission losses. Sound levels are also considerably lower.

The benefits speak for themselves: efficient power transmission, optimal energy consumption and reduced servicing / downtime costs.

Sigma Control 2

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

Optimised specific power

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

Maximum dependability even at high ambient temperatures

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

Complete package EMC certified

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

Soft start with no damaging current spikes

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

www.kaeser.com
SIGMA CONTROL 2 and SIGMA CONTROL BASIC
Tailored intelligence

SIGMA CONTROL 2

...for SX to HSD series compressors

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

SIGMA CONTROL BASIC

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

The SIGMA CONTROL BASIC is available with KAESER’s SX, SM, SK and ASK series rotary screw compressors. It is the perfect solution for users who initially require a single compressor for their air supply, but who also may wish to expand the compressed air system in the future. Furthermore, KAESER’s modular control and compressed air management concept ensures trouble-free system compatibility.

SIGMA CONTROL 2 – The function keys in detail

Basic functions
- ON key switches the compressor ‘ON’ – automatic self control operation. Green LED indicates ‘Compressor ON’.  
- OFF key Switches the compressor ‘OFF’.  
- 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.

‘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’.  

Additional functions
- Idle key switches the compressor from load to idle.  
- Remote ON key – Green LED – switches remote control mode ‘ON’ and ‘OFF’.  
- Timer ON/OFF key – Green LED – activates / deactivates the set timer function.  
- Load icon – Green LED – indicates ‘Compressor on load, air being supplied’.  
- Idle icon – Green LED – indicates ‘Compressor running, no air supply’.  

SIGMA CONTROL BASIC – Functions

• Quick and simple operation with clear icons and large display  
• Fully automatic DUAL control (full load/ idle/ on/off control)  
• Monitoring of air network pressure parameters, airenad 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
SIGMA AIR MANAGEMENT SYSTEM

The further-refined adaptive 3-D Advanced Control predictively calculates and compares various operating scenarios and selects the most efficient to suit the compressed air application’s specific needs. Compressor flow rate and energy consumption are therefore always optimally matched according to actual compressed air demand. In combination with the integrated multi-core industrial PC processor, the adaptive 3-D Advanced Control is able to ensure optimised performance at all times.

Furthermore, the SIGMA NETWORK bus converters (SBC) provide users with a host of possibilities to enable the system to be individually tailored to meet their exact requirements. The SBCs can be equipped with digital and analogue input and output modules, as well as with SIGMA NETWORK ports. This allows information such as alarm messages, flow rate, pressure dew point and performance measurement data, for example, to be gathered and easily displayed.

(1) SIGMA AIR MANAGER 4.0 (SAM 4.0) master controller
- Adaptive 3-D Advanced Control
- Live P&I diagram
- Faster and active overview of the entire compressed air station
- Versions SAM 4.0 - 4, SAM 4.0 - 8, SAM 4.0 - 16
- Upgradable: Software upgrade accommodates compressed air station expansion – no hardware change necessary
- 6 digital inputs, 4 analogue 4-20 mA inputs, 5 relay outputs
- One pressure transducer included
- 7 SIGMA NETWORK ports for compressors with SIGMA CONTROL 2 controller and/or SIGMA NETWORK bus converter (SBC)
- Optionally with SNW-PROFIBUS-Master for connection to existing stations with SIGMA AIR MANAGER

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

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

(4) SIGMA NETWORK (SNW)
KAESER-specific, secure network for machine control and communication

(5) Connection of compressors with SIGMA CONTROL 2
Connection of SIGMA CONTROL 2 equipped compressors is performed via the SIGMA NETWORK

(6) Connection of existing SAM Profinbus networks with SNW-PROFIBUS-Master
Existing compressed air stations with Profinbus networks can be easily connected using the optional SNW-PROFIBUS-Master.

Secure data – secure business!
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.

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

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

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

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.

Production and quality assurance
To achieve maximum precision, components for KAESER rotary screw compressors are machined in climate-controlled rooms using the very latest tool machinery. Dedicated and highly qualified personnel draw on years of engineering experience to ensure unrivalled product quality and consistency. Production tolerances are continuously monitored using precision 3-D measuring equipment that detects variations with micron accuracy (large photo right).

Premium quality, precision machined
www.kaeser.com
Global service and consulting

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

Expert advice and professional customer care: KAESER AIR SERVICE

Optimised compressed air supply

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

Worldwide Teleservice

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

Outstanding customer service

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

Genuine KAESER parts

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

SIGMA AIR UTILITY

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

Worldwide Teleservice

KAESER Teleservice, a cost-saving service solution based on global networking and data communication, enables remote diagnosis and demand-oriented maintenance. The service provides improved availability and optimised overall air supply efficiency.
Trade and industry
The majority of industrial compressed air requirements are met by rotary screw compressors, which are also being increasingly used in trade and workshop applications. KAESER rotary screw compressors with SIGMA PROFILE rotor airends reflect this growing trend, as more than 200,000 of these economical and reliable systems are currently in service throughout the world.

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

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

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

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

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Working pressure</th>
<th>Flow rate (*)</th>
<th>Max. operating pressure</th>
<th>Dimensions W x D x H</th>
<th>Connection</th>
<th>Sound pressure level **)</th>
<th>Mass</th>
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<tr>
<td>SX 3</td>
<td>7.5</td>
<td>3.16</td>
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<td>G 1/4</td>
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<td>3.1</td>
<td>G 1/4</td>
<td>69</td>
<td>155</td>
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</tbody>
</table>

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

### ASD – CSDX series

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Working pressure</th>
<th>Flow rate (*)</th>
<th>Max. operating pressure</th>
<th>Dimensions W x D x H</th>
<th>Connection</th>
<th>Sound pressure level **)</th>
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<td>G 1/4</td>
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<td>140</td>
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<td>3.1</td>
<td>G 1/4</td>
<td>69</td>
<td>155</td>
</tr>
</tbody>
</table>

(*) 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)
### SXC – AIRCENTER SX/SM/SK series

<table>
<thead>
<tr>
<th>Model</th>
<th>Working pressure</th>
<th>Flow rate *)</th>
<th>Rated motor power</th>
<th>Dimensions W x D x H</th>
<th>Connection Compressed air</th>
<th>Sound pressure level **)</th>
<th>Mass kg</th>
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<tbody>
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<td>7.5</td>
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<td>3570 x 2145 x 2500</td>
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</table>

*) 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).

### AIRCENTER 3

<table>
<thead>
<tr>
<th>Model</th>
<th>Working pressure</th>
<th>Flow rate *)</th>
<th>Rated motor power</th>
<th>Dimensions W x D x H</th>
<th>Connection Compressed air</th>
<th>Sound pressure level **)</th>
<th>Mass kg</th>
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<tbody>
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<td>11</td>
<td>22</td>
<td>0.18</td>
<td>R 134a</td>
</tr>
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</table>

*) Performance data to ISO 1217:2009, Annex C. **) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, operation at maximum working pressure; tolerance: ± 3 dB (A).
### SX – ASK T series

Modular rotary screw compressors with refrigeration dryer – to 22 kW

<table>
<thead>
<tr>
<th>Model</th>
<th>Working pressure</th>
<th>Flow rate *)</th>
<th>Max. operating pressure</th>
<th>Rated motor power</th>
<th>Refrigerant dryer power consumption</th>
<th>Refrigerant</th>
<th>Pressure point</th>
<th>Dimensions W x D x H</th>
<th>Connection Compressed air</th>
<th>Sound pressure level **)</th>
<th>Mass</th>
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<td>185</td>
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<td>10</td>
<td>10</td>
<td>3</td>
<td>0.18</td>
<td>R 134a</td>
<td>+ 3</td>
<td>580 x 905 x 870</td>
<td>60</td>
<td>185</td>
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<td>13</td>
<td>13</td>
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<td>15</td>
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<td>0.26</td>
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<td>580 x 905 x 870</td>
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<td>+ 3</td>
<td>620 x 1274 x 1100</td>
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<td>R 134a</td>
<td>+ 3</td>
<td>620 x 1274 x 1100</td>
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<td>11.0</td>
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<td>13</td>
<td>15.0</td>
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<td>+ 3</td>
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<td>580</td>
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<td>0.70</td>
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<td>+ 3</td>
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<td>13</td>
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<td>+ 3</td>
<td>800 x 1490 x 1330</td>
<td>69</td>
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</tr>
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</table>

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

### ASD – DSD T series

Modular rotary screw compressors with refrigeration dryer – to 132 kW

<table>
<thead>
<tr>
<th>Model</th>
<th>Working pressure</th>
<th>Flow rate *)</th>
<th>Max. operating pressure</th>
<th>Rated motor power</th>
<th>Refrigerant dryer power consumption</th>
<th>Refrigerant</th>
<th>Pressure point</th>
<th>Dimensions W x D x H</th>
<th>Connection Compressed air</th>
<th>Sound pressure level **)</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
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<td>8</td>
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<td>+ 3</td>
<td>1770 x 1500 x 1520</td>
<td>65</td>
<td>705</td>
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<tr>
<td>ASD 40 T</td>
<td>7.5</td>
<td>3.82</td>
<td>13</td>
<td>13</td>
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<td>R 134a</td>
<td>+ 3</td>
<td>1770 x 1500 x 1520</td>
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<td>790</td>
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<td>R 134a</td>
<td>+ 3</td>
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<td>+ 3</td>
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<td>+ 3</td>
<td>1960 x 1230 x 1700</td>
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<td>1100</td>
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<td>+ 3</td>
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<td>13</td>
<td>13</td>
<td>45</td>
<td>0.8</td>
<td>R 134a</td>
<td>+ 3</td>
<td>1960 x 1230 x 1700</td>
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<td>1100</td>
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<td>0.8</td>
<td>R 134a</td>
<td>+ 3</td>
<td>2160 x 1110 x 1930</td>
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<td>1410</td>
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<td>13</td>
<td>13</td>
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<td>0.8</td>
<td>R 134a</td>
<td>+ 3</td>
<td>2160 x 1110 x 1930</td>
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<td>13</td>
<td>75</td>
<td>1.1</td>
<td>R 134a</td>
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<td>+ 3</td>
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<td>+ 3</td>
<td>3310 x 1730 x 2040</td>
<td>71</td>
<td>3850</td>
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</table>

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

***) At high fan speed
**SM – CSDX SFC series**

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Working pressure</th>
<th>Flow rate</th>
<th>Overall package at working pressure</th>
<th>Max. operating pressure</th>
<th>Rated motor power</th>
<th>Min. pressure breadth</th>
<th>Speed range min. – max.</th>
<th>Frequency range min. – max.</th>
<th>Dimensions W x D x H</th>
<th>Connection Compressed air</th>
<th>Sound pressure level **(*)</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
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<td>0.25 - 1.24</td>
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<td>10</td>
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<td>0.1</td>
<td>1300 - 3780</td>
<td>25 - 43</td>
<td>630 x 762 x 1100</td>
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<td>67</td>
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<td>0.63 - 1.98</td>
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<td>1300 - 3800</td>
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<td>18.2 - 43.4</td>
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<td>22</td>
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<td>1300 - 3800</td>
<td>25 - 64.4</td>
<td>800 x 1100 x 1530</td>
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<td>755</td>
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<td>33.0 - 177.9</td>
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<td>1700 x 1110 x 1880</td>
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<td>1400</td>
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</tr>
<tr>
<td>CSDX 140 SFC</td>
<td>7.5</td>
<td>3.30 - 15.17</td>
<td>8.5</td>
<td>75</td>
<td>0.1</td>
<td>3315</td>
<td>18.5 - 62.2</td>
<td>2110 x 1280 x 1980</td>
<td>G 2</td>
<td>72</td>
<td>1835</td>
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</tr>
<tr>
<td>CSDX 165 SFC</td>
<td>7.5</td>
<td>3.84 - 19.94</td>
<td>8.5</td>
<td>90</td>
<td>0.1</td>
<td>3200</td>
<td>18.5 - 62.2</td>
<td>2110 x 1280 x 1980</td>
<td>73</td>
<td>2205</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*) 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)

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**DSD – HSD SFC series**

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Working pressure</th>
<th>Flow rate</th>
<th>Overall package at working pressure</th>
<th>Max. operating pressure</th>
<th>Rated motor power</th>
<th>Min. pressure breadth</th>
<th>Speed range min. – max.</th>
<th>Frequency range min. – max.</th>
<th>Dimensions W x D x H</th>
<th>Connection Compressed air</th>
<th>Sound pressure level **(*)</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSD 142 SFC</td>
<td>7.5</td>
<td>3.80 - 74.80</td>
<td>9</td>
<td>75</td>
<td>0.1</td>
<td>400 - 1635</td>
<td>15 - 54.5</td>
<td>2005 x 1730 x 2540</td>
<td>69</td>
<td>3100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DSD 172 SFC</td>
<td>7.5</td>
<td>3.80 - 11.33</td>
<td>10</td>
<td>90</td>
<td>0.1</td>
<td>400 - 1815</td>
<td>15 - 55</td>
<td>2005 x 1730 x 2540</td>
<td>70</td>
<td>3200</td>
<td></td>
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</tr>
<tr>
<td>DSD 202 SFC</td>
<td>7.5</td>
<td>4.20 - 20.30</td>
<td>10</td>
<td>110</td>
<td>0.1</td>
<td>400 - 1905</td>
<td>15 - 55</td>
<td>2005 x 1730 x 2540</td>
<td>71</td>
<td>3730</td>
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<td></td>
</tr>
<tr>
<td>DSD 238 SFC</td>
<td>7.5</td>
<td>4.80 - 25.00</td>
<td>10</td>
<td>132</td>
<td>0.1</td>
<td>400 - 1930</td>
<td>15 - 55</td>
<td>2005 x 1730 x 2540</td>
<td>73</td>
<td>3870</td>
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<td></td>
</tr>
<tr>
<td>DSDX 245 SFC</td>
<td>7.5</td>
<td>5.57 - 27.17</td>
<td>8.5</td>
<td>132</td>
<td>0.1</td>
<td>400 - 1930</td>
<td>15 - 64.8</td>
<td>2940 x 1910 x 2140</td>
<td>75</td>
<td>4700</td>
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</tr>
<tr>
<td>DSDX 305 SFC</td>
<td>7.5</td>
<td>6.85 - 35.03</td>
<td>8.5</td>
<td>160</td>
<td>0.1</td>
<td>400 - 2045</td>
<td>15 - 64.8</td>
<td>2940 x 1910 x 2140</td>
<td>76</td>
<td>4800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESD 352 SFC</td>
<td>7.5</td>
<td>8.38 - 35.38</td>
<td>10</td>
<td>230</td>
<td>0.1</td>
<td>400 - 1930</td>
<td>15 - 53.6</td>
<td>3100 x 2000 x 2140</td>
<td>76</td>
<td>4940</td>
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<td></td>
</tr>
<tr>
<td>ESD 442 SFC</td>
<td>7.5</td>
<td>10.14 - 41.52</td>
<td>10</td>
<td>250</td>
<td>0.1</td>
<td>400 - 1970</td>
<td>15 - 58.2</td>
<td>3100 x 2000 x 2140</td>
<td>77</td>
<td>4870</td>
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<tr>
<td>FSD 571 SFC</td>
<td>7.5</td>
<td>13.30 - 52.12</td>
<td>8.5</td>
<td>355</td>
<td>0.1</td>
<td>400 - 1930</td>
<td>15 - 55.5</td>
<td>3010 x 2140 x 2380</td>
<td>80</td>
<td>7610</td>
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<tr>
<td>HSD 662 SFC</td>
<td>7.5</td>
<td>10.46 - 65.35</td>
<td>8.5</td>
<td>382</td>
<td>0.1</td>
<td>400 - 1710</td>
<td>15 - 57.3</td>
<td>4170 x 2145 x 2390</td>
<td>73</td>
<td>8100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSD 782 SFC</td>
<td>7.5</td>
<td>11.90 - 77.80</td>
<td>10</td>
<td>401</td>
<td>0.1</td>
<td>400 - 1710</td>
<td>15 - 57.3</td>
<td>4170 x 2145 x 2390</td>
<td>74</td>
<td>9900</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSD 842 SFC</td>
<td>7.5</td>
<td>11.90 - 87.30</td>
<td>8.5</td>
<td>515</td>
<td>0.1</td>
<td>400 - 1710</td>
<td>15 - 57.3</td>
<td>4170 x 2145 x 2390</td>
<td>75</td>
<td>10190</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(*) 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)
### Aircenter – ASK T SFC series

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Working pressure</th>
<th>Flow rate (**)</th>
<th>Max. operating pressure</th>
<th>Rated motor power</th>
<th>Speed range min. – max.</th>
<th>Frequency range min. – max.</th>
<th>Dryer power consumption</th>
<th>Refrigerant</th>
<th>Pressure drop point</th>
<th>Dimensions W x D x H</th>
<th>Connection Compress. air</th>
<th>Sound pressure level (*)</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASK 34 T SFC</td>
<td>7.5</td>
<td>0.94 - 3.80</td>
<td>8</td>
<td>11</td>
<td>15</td>
<td>20 - 63</td>
<td>100 - 260</td>
<td>900 – 3300</td>
<td>0.54</td>
<td>3.90</td>
<td>1013</td>
<td>2.70 - 11.70</td>
<td>0.72</td>
</tr>
<tr>
<td>SK 22 T SFC</td>
<td>7.5</td>
<td>0.94 - 1.99</td>
<td>8</td>
<td>11</td>
<td>15</td>
<td>20 - 63</td>
<td>100 - 300</td>
<td>900 – 3300</td>
<td>0.54</td>
<td>3.90</td>
<td>1013</td>
<td>2.70 - 11.70</td>
<td>0.72</td>
</tr>
<tr>
<td>SK 25 T SFC</td>
<td>7.5</td>
<td>0.94 - 1.99</td>
<td>8</td>
<td>11</td>
<td>15</td>
<td>20 - 63</td>
<td>100 - 320</td>
<td>900 – 3300</td>
<td>0.54</td>
<td>3.90</td>
<td>1013</td>
<td>2.70 - 11.70</td>
<td>0.72</td>
</tr>
<tr>
<td>SMC 12 T SFC</td>
<td>7.5</td>
<td>0.94 - 1.99</td>
<td>8</td>
<td>11</td>
<td>15</td>
<td>20 - 63</td>
<td>100 - 320</td>
<td>900 – 3300</td>
<td>0.54</td>
<td>3.90</td>
<td>1013</td>
<td>2.70 - 11.70</td>
<td>0.72</td>
</tr>
</tbody>
</table>

### ASD – DSD T SFC series

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Working pressure</th>
<th>Flow rate (**)</th>
<th>Max. operating pressure</th>
<th>Rated motor power</th>
<th>Speed range min. – max.</th>
<th>Frequency range min. – max.</th>
<th>Dryer power consumption</th>
<th>Refrigerant</th>
<th>Pressure drop point</th>
<th>Dimensions W x D x H</th>
<th>Connection Compress. air</th>
<th>Sound pressure level (*)</th>
<th>Mass kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASD 40 T SFC</td>
<td>7.5</td>
<td>1.02 - 5.8</td>
<td>8.5</td>
<td>22</td>
<td>900 – 3512</td>
<td>50 - 113.6</td>
<td>1013</td>
<td>2.84</td>
<td>15</td>
<td>15 - 60.5</td>
<td>3310 x 1730 x 2040</td>
<td>2.35 R 134a + 3</td>
<td>7.5</td>
</tr>
<tr>
<td>ASD 50 T SFC</td>
<td>7.5</td>
<td>1.05 - 6.3</td>
<td>8.5</td>
<td>25</td>
<td>900 – 3512</td>
<td>50 - 113.6</td>
<td>1013</td>
<td>2.84</td>
<td>15</td>
<td>15 - 60.5</td>
<td>3310 x 1730 x 2040</td>
<td>2.35 R 134a + 3</td>
<td>7.5</td>
</tr>
<tr>
<td>ASD 60 T SFC</td>
<td>7.5</td>
<td>1.25 - 7.8</td>
<td>8.5</td>
<td>30</td>
<td>900 – 3512</td>
<td>50 - 113.6</td>
<td>1013</td>
<td>2.84</td>
<td>15</td>
<td>15 - 60.5</td>
<td>3310 x 1730 x 2040</td>
<td>2.35 R 134a + 3</td>
<td>7.5</td>
</tr>
<tr>
<td>BSD 75 T SFC</td>
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<td>1.62 - 7.0</td>
<td>10</td>
<td>900 – 3512</td>
<td>50 - 113.6</td>
<td>1013</td>
<td>2.84</td>
<td>15</td>
<td>15 - 60.5</td>
<td>3310 x 1730 x 2040</td>
<td>2.35 R 134a + 3</td>
<td>7.5</td>
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</tr>
<tr>
<td>CSD 85 T SFC</td>
<td>7.5</td>
<td>1.99 - 9.8</td>
<td>8.5</td>
<td>1500 – 3652</td>
<td>50 - 113.6</td>
<td>1013</td>
<td>2.84</td>
<td>15</td>
<td>15 - 60.5</td>
<td>3310 x 1730 x 2040</td>
<td>2.35 R 134a + 3</td>
<td>7.5</td>
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</tr>
<tr>
<td>CSD 105 T SFC</td>
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<td>2.25 - 12.0</td>
<td>8.5</td>
<td>1500 – 3700</td>
<td>50 - 113.6</td>
<td>1013</td>
<td>2.84</td>
<td>15</td>
<td>15 - 60.5</td>
<td>3310 x 1730 x 2040</td>
<td>2.35 R 134a + 3</td>
<td>7.5</td>
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</tr>
<tr>
<td>CSD 125 T SFC</td>
<td>7.5</td>
<td>2.55 - 12.0</td>
<td>8.5</td>
<td>1500 – 3700</td>
<td>50 - 113.6</td>
<td>1013</td>
<td>2.84</td>
<td>15</td>
<td>15 - 60.5</td>
<td>3310 x 1730 x 2040</td>
<td>2.35 R 134a + 3</td>
<td>7.5</td>
<td></td>
</tr>
</tbody>
</table>

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1. 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)
2. 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) **| All high bar speed
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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.

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