



Rotary Screw Compressors

CSD(X) Series

With the world-renowned **SIGMA PROFILE** ⚙️

Flow rate 1.1 to 19.4 m³/min, Pressure 5.5 to 15 bar

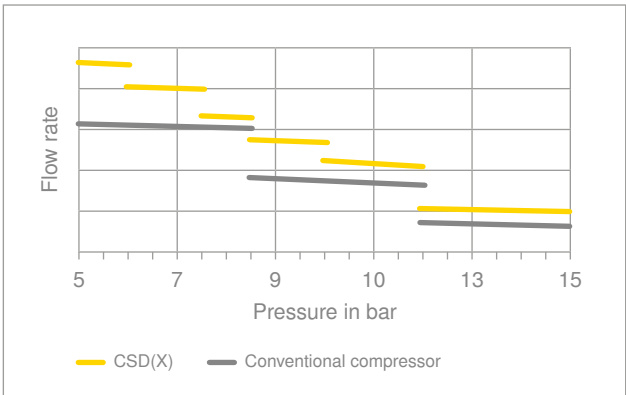
CSD(X) – Power converted into efficiency

Efficient, versatile and application-oriented, the new generation of CSD(X) series fluid-injected rotary screw compressors from KAESER delivers power with even greater precision to the application at hand. Six pressure variants ensure optimal matching to individual pressure requirements, all while achieving significantly enhanced efficiency. CSD(X) series rotary screw compressors are perfect team players for high-efficiency industrial compressed air stations. The internal SIGMA CONTROL 2 compressor controller offers a multitude of communications channels, allowing seamless integration with master controllers such as the SIGMA AIR MANAGER 4.0, as well as in-house centralised control systems. Furthermore, CSD(X) compressors combine user- and maintenance-friendliness with exceptional versatility and environmentally responsible design.



SIGMA PROFILE – Sustainable efficiency

Continuous refinement of the airend's SIGMA PROFILE rotors is a testament to KAESER's commitment to deliver "More compressed air for less energy". This ongoing optimisation means that updated models provide ever-greater energy savings. Accordingly, the latest models consume significantly less energy than previous generation models.



More pressure variants – More compressed air

Fixed-speed versions of the latest-generation CSD(X) machines are offered in six different pressure variants, instead of the previous three. This enables even more precise adjustment to the pressure requirements of the respective application, resulting in significantly increased compressed air flow rate.



Electronic Thermal Management (ETM)

Electronic Thermal Management (ETM) enables the SIGMA CONTROL 2 compressor controller to reliably prevent condensate formation. Thanks to the speed-controlled fan unit, the SIGMA CONTROL 2 can also adjust the cooling air flow in accordance with ambient conditions. This means that fan speed can be reduced at low temperatures or during partial load operation, thereby enabling a significant decrease in energy consumption.



Maximum drive efficiency

To achieve even greater energy efficiency, KAESER consistently focuses on maximising drive efficiency. Fixed-speed systems are equipped with asynchronous motors, which meet the best possible efficiency class of IE4 for this type of drive. Frequency-controlled SFC systems use IE5 motors and also meet the requirements for IES2 system efficiency, thereby achieving the highest possible efficiency rating in accordance with the European IEC 61800-9 standard .

CSD / CSDX series

Premium quality down to the smallest detail

(1) Reduced resistance

The generously dimensioned air filter features a large surface area, which allows more dust particles to be retained whilst simultaneously minimising pressure losses. To ensure continuous efficiency, the SIGMA CONTROL 2 monitors the condition of the filter via a vacuum switch.

(2) Reliable and efficient

The innovative Electronic Thermal Management (ETM) system dynamically controls fluid temperatures according to the prevailing operating conditions. This not only ensures reliable prevention of condensate accumulation, but also boosts energy efficiency.

(3) Cooling air on demand

The speed-controlled fan only delivers as much cooling air as the compressor mode and ambient conditions require. This translates into lower energy consumption and a significantly reduced CO₂ footprint.

(4) SIGMA CONTROL 2: Optimum efficiency

The internal SIGMA CONTROL 2 compressor controller ensures efficient control, monitoring and documentation of compressor operation at all times. Variable interfaces enable seamless networking capability, whilst the SD card slot makes updates quick and easy.

(5) Save with the SIGMA PROFILE ^{☆☆}

At the heart of every CSD(X) system lies a premium-quality airend featuring the continuously refined and optimised SIGMA PROFILE. It is meticulously engineered for optimal airflow and durability, seamlessly combining exceptional efficiency with sustainability.

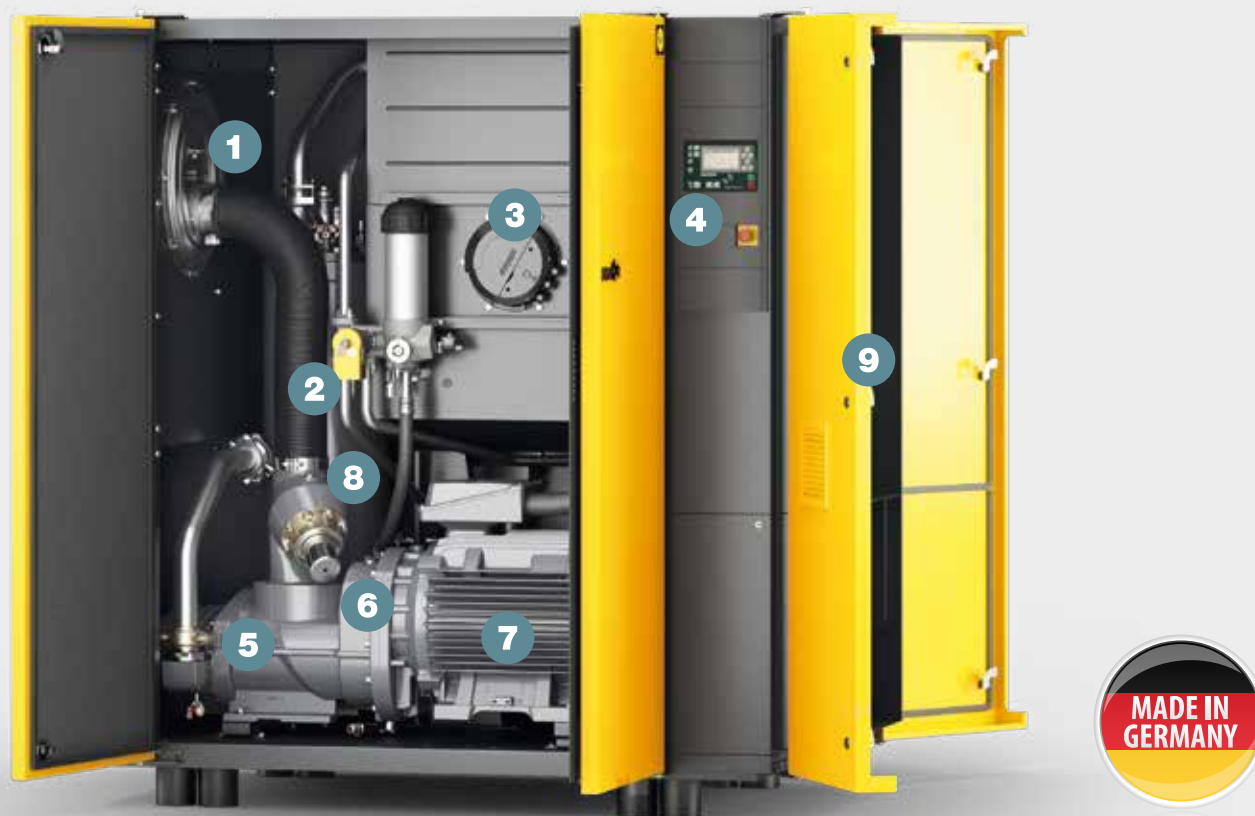


Image: CSD 130



Image: CSD 130



(6) Power converted into efficiency

The integrated package comprising motor, gear pair and airend enables the most energy-efficient airend speed to be selected for each operating point. The six pressure variants guarantee a precise match for your individual pressure requirements.

(7) Certified efficiency

By providing the best possible efficiency class for fixed-speed motors (IE4) and motors with frequency converter (IE5), KAESER achieves maximum energy savings. To ensure reliable operation, the SIGMA CONTROL 2 can also monitor motor temperature via a Pt100 sensor, thereby enhancing motor service life.

(8) Redesigned for greater efficiency

The new inlet valve has been optimised for minimal pressure loss. Together with the larger inlet filter, it achieves a reduced intake pressure differential and therefore greater efficiency for the entire rotary screw compressor.

(9) Compact and user-friendly

The split control cabinet doors ensure optimal accessibility and a reduced footprint.

(10) Effective cooling

Since they are the initial components through which the cooling air passes, the external coolers minimise the compressed air discharge temperature. This assures significant savings when it comes to compressed air treatment. Furthermore, the coolers are easy to inspect and clean.

(11) Simple fluid changes

To make fluid changes as simple as possible, all relevant connections are conveniently located at the rear of the oil separator tank for easy access. Even faster servicing from the rear side of the CSD(X) reduces downtime to an absolute minimum.

CSD T / CSDX T series

Premium compressed air quality with add-on dryer

KAESER add-on dryers reliably protect the compressed air network against pipe corrosion, equipment failure and product damage. These dryers impress with their durable construction, exceptionally low energy consumption and high-quality features such as the ECO-DRAIN condensate drain.

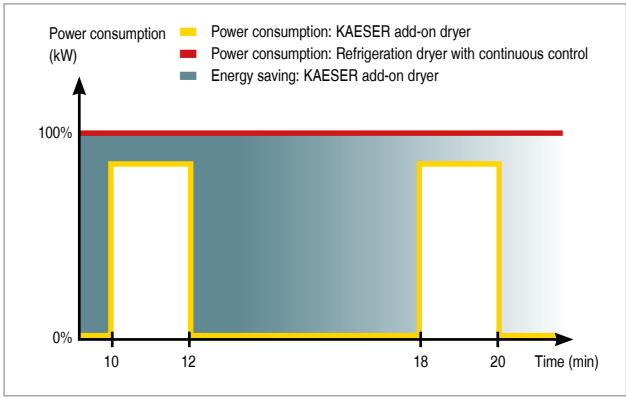
In addition, the more compact design of the add-on dryer permits a minimum 22% reduction in refrigerant charge and therefore of the CO₂ equivalent.

Compared to separate refrigeration dryers, add-on dryers require significantly less space and are simpler to install, thanks to the integrated piping between the compressor and dryer.

Not sure which solution is the best for your requirements?
Your KAESER contact partner will be glad to assist you!



Image: CSDX 145 T



Energy-saving control

The integrated refrigeration dryer in CSD(X) T packages provides highly efficient performance thanks to its energy-saving control. It only operates when compressed air is actually flowing through the dryer. As a result, the required compressed air quality is achieved with maximum energy efficiency.



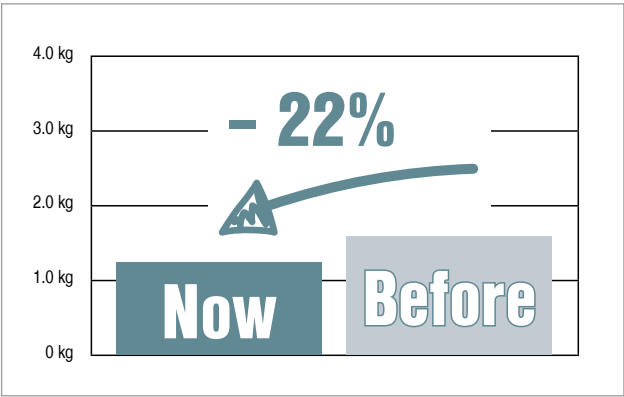
Optimum accessibility

The add-on dryer is equipped with a door for easy service access, thereby simplifying maintenance work and minimising the associated downtime.



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 operate using R-513A refrigerant, which has a very low GWP (Global Warming Potential). This means that they will remain future-proof throughout their entire life cycle.



Reduced refrigerant volumes

The refrigeration dryers in KAESER's new CSD(X) T systems require approximately 22% (CSDX) and 26% (CSD) less refrigerant respectively than previous models. This not only saves costs, but is also significantly more environmentally sustainable.

Your **benefits** at a glance



- ✓ **Best motor efficiency class IE5**
- ✓ **Best system efficiency class IES2**
- ✓ **Durable and service-friendly drive**
- ✓ **Minimal operating costs, high productivity and availability**
- ✓ **EMC-certified complete system**

CSD (T) SFC / CSDX (T) SFC series

Frequency-controlled compressor for efficient peak load operation

Maximum flexibility and sustainability: thanks to their variable-speed drive motors, peak load compressors from KAESER always deliver the exact volume of compressed air actually required. This makes them particularly efficient in applications with variable air demand.

Committed to meeting your objectives

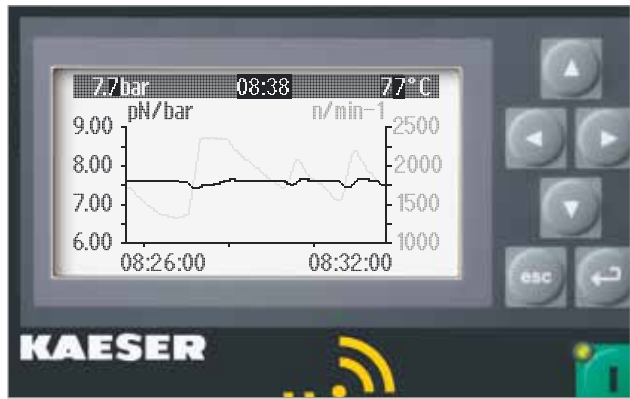
Peak load compressors stand out with their exceptional flexibility when it comes to delivery volumes, guaranteeing impressive efficiency across the entire delivery range.

Ultra-efficient – IE5

The frequency-controlled motors of the CSD SFC and CSDX SFC are designed for operation with a frequency converter. This enables them to achieve the highest possible efficiency class of IE5 (“Ultra Premium Efficiency”) as per IEC 60034-30-2.

Perfect teamwork – IES2

In the case of compressors with variable speed control, it is essential for the motor and frequency converter to operate in perfect harmony to ensure optimum efficiency. KAESER selects motors with optimally matched frequency converters to guarantee seamless interplay that provides maximum system efficiency – IES2.



Constant pressure

Flow rate can be adjusted within the control range, according to pressure. Working pressure is kept constant to within ± 0.1 bar. This allows the maximum pressure to be reduced, thereby saving energy and therefore costs.



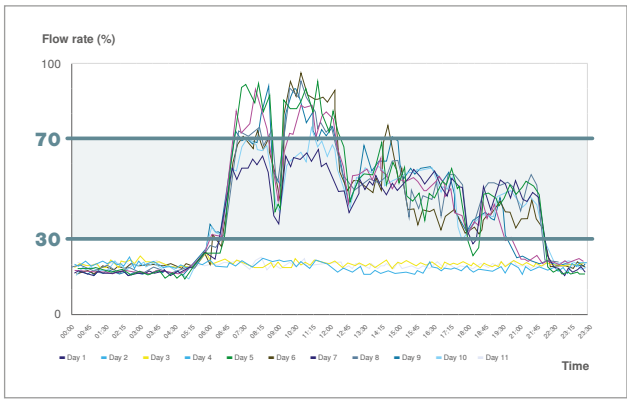
Complete system EMC-certified

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



Durable and service-friendly: Synchronous reluctance motor

The rotor of the synchronous reluctance motor is free from aluminium, copper and rare earth materials. Furthermore, due to its inherent design, the rotor experiences minimal heat losses, resulting in significantly lower bearing temperatures and an extended service life.



Minimal operating costs – exceptional productivity

Considerable energy savings are made possible thanks to significantly higher efficiency – especially in the partial load range – compared to systems equipped with asynchronous drive motors. The low moment of inertia in synchronous reluctance motors allows very short cycle times, thereby boosting the productivity of the machine and the system as a whole.

SIGMA CONTROL 2

The integrated SIGMA CONTROL 2 compressor controller coordinates compressed air generation and ensures efficient, reliable machine operation. It also ensures perfect interplay when operating as part of a network. All relevant components and operating states are monitored and evaluated – messages are available to the operator for evaluation directly on the controller display, or simply and conveniently from any desk via the integrated web server. A multitude of communications functions are available, including the option of connecting the machine to a SCADA central control system, meaning that you can stay connected in any eventuality.



Intelligent and adaptable

Superior efficiency thanks to integrated functionality. Two machines can be connected with one another in cost-efficient Master/Slave operation. When it comes to add-on dryers, the energy-saving control ensures perfect adaptation to your requirements. Optimum networking is simple and intuitive with the SAM 4.0 master compressed air management system and guaranteed via the secure KAESER SIGMA NETWORK.



The essence of efficiency

The SIGMA CONTROL 2 controller's numerous sensors and actuators work together perfectly. The innovative Electronic Thermal Management (ETM) dynamically controls fluid temperatures in the system. Air intake and compressor temperatures are monitored so that the electronically operated thermostatic control valve integrated into the refrigerant circuit can be activated when necessary. This also enables the operator to better adapt the heat recovery system to suit their specific needs.

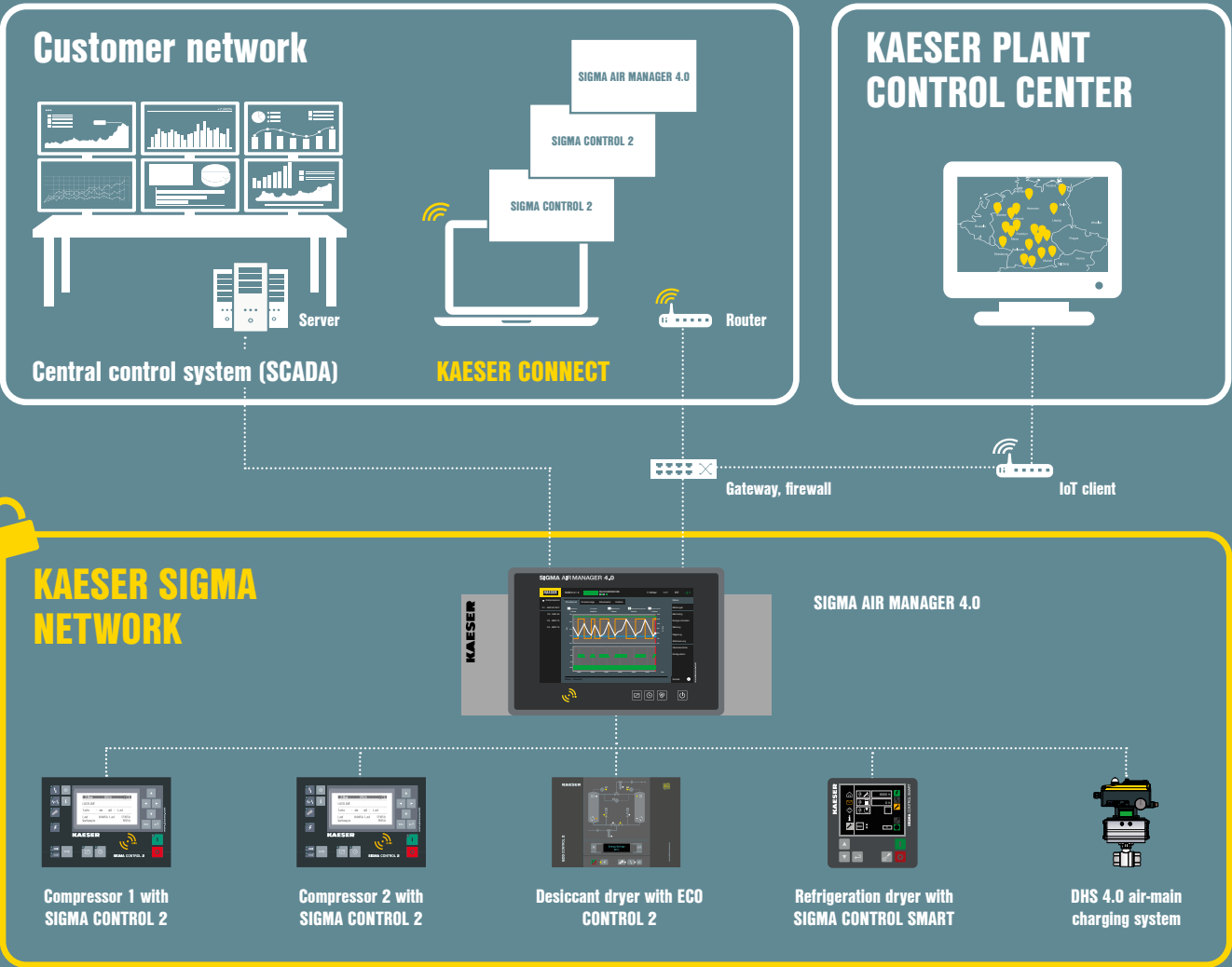


A perfect fit with any drive type

Whether operating in the intelligent Dynamic mode, where the motor windings temperature must be monitored at idle, or in conjunction with a frequency converter and a synchronous reluctance motor, the SIGMA CONTROL 2 demonstrates its quality and guarantees efficient operation in all circumstances.

SIGMA AIR MANAGER 4.0

Adaptive, efficient and networked: demand-oriented compressed air management takes on a whole new meaning with the SIGMA AIR MANAGER 4.0. This advanced master controller coordinates operation of multiple compressors, as well as dryers or filters, with exceptional efficiency. A patented, simulation-based optimisation process predictively determines future demand based on recorded, past compressed air consumption profiles. Thanks to networking of all components in the compressed air station via this intelligent master controller and the secure KAESER SIGMA NETWORK, comprehensive monitoring, energy management and predictive maintenance are all possible.



Heat recovery – Energy from compression



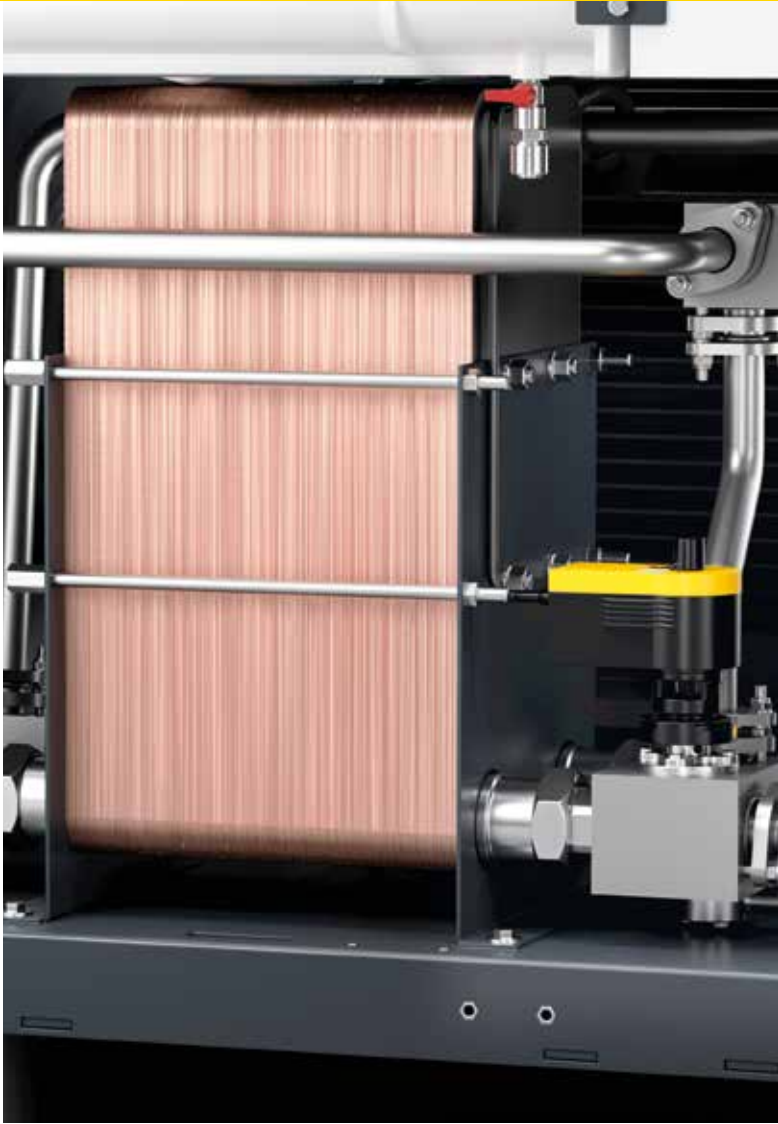
CO₂ savings with heat recovery

Up to 96% of a compressor's electrical power consumption can be recovered as heat energy. Make use of this potential and obtain your compressed air and heat from a single source: the CO₂ savings potential in comparison with oil or gas heating is considerable.



Space heating with hot exhaust air

Even an air-cooled CSD(X) without special equipment can supply an impressive amount of heat: thanks to the radial fan with high residual thrust, hot exhaust air can often be easily ducted away to spaces that require heating without need of an auxiliary fan.



Optional hot water generation

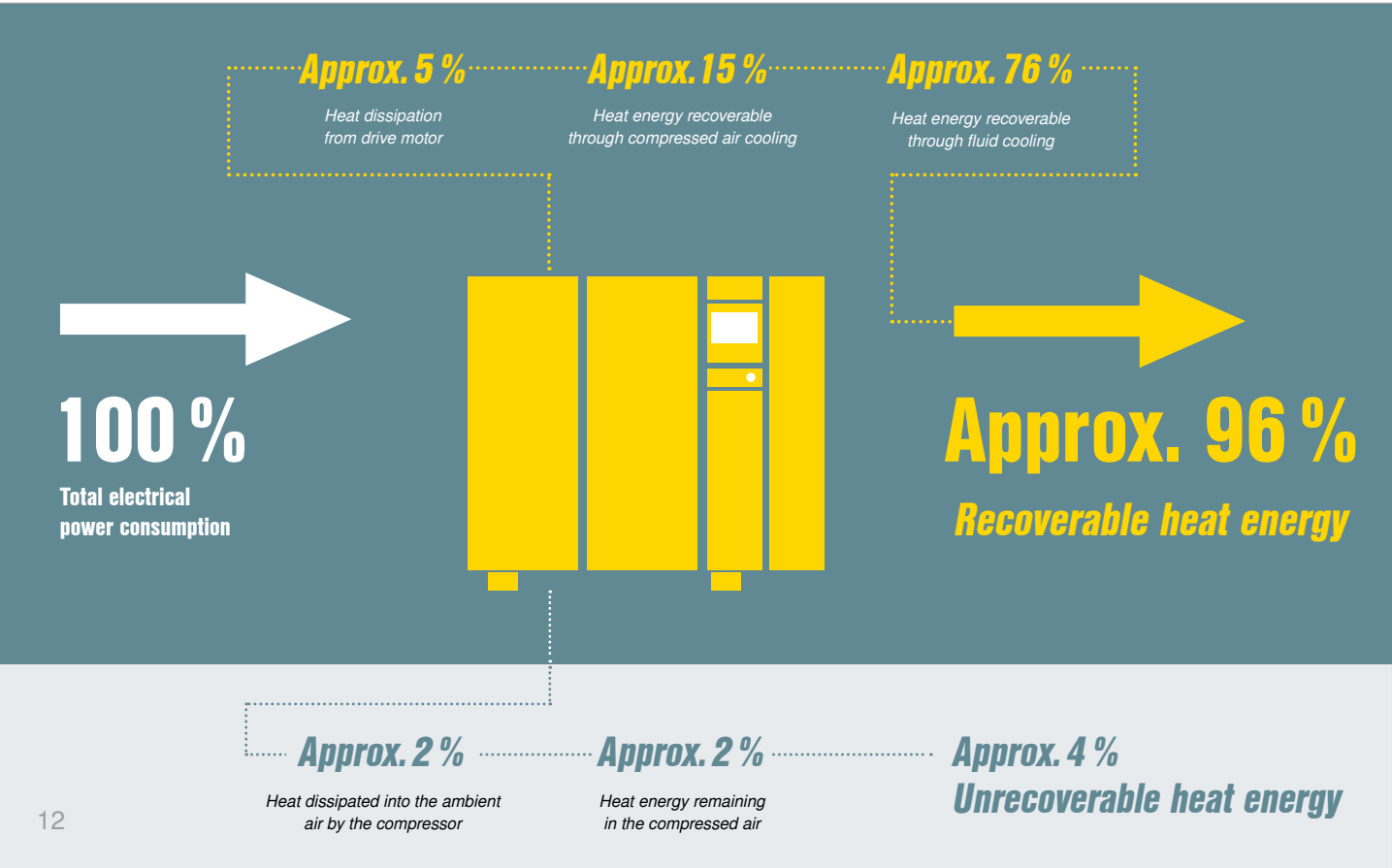
With the optional integrated heat recovery system, an additional plate-type heat exchanger and a second ETM valve are installed. This allows a CSD(X) compressor to provide hot water up to 70 °C!

Flexible in every respect – thanks to SIGMA CONTROL 2 and ETM

The SIGMA CONTROL 2 controller enables precise setting of the airend discharge temperature required for the compressed air in order to achieve the desired water discharge temperature from the heat recovery system. When heat recovery is not required, this feature can be deactivated via the SIGMA CONTROL 2. In this case, the airend discharge temperature is flexibly adjusted in order to save energy and prevent condensate formation.

Maximum energy savings

The more heat discharged via the hot water, the slower and therefore more energy-efficiently the speed-controlled fan is operated.



Example savings calculation for heat recovery with a CSDX 175

Total power consumption CSDX 175	Approx. 110 kW
Maximum available heat output (96% of total power consumption)	105.6 kW
Compressor load hours per day	8 h
Heating periods per year	100 days

Savings compared to oil heating	
Calorific value	10.6 kWh/l
Price	€ 1.50/l
CO ₂ emissions	2.8 kg CO ₂ /l
Heating efficiency	90%
Heating cost saving	Approx. € 13,280 per year
CO ₂ saving	Approx. 24,800 kg CO ₂ /year

Savings compared to gas heating	
Calorific value	11 kWh/m ³
Price	€ 1.20/m ³
CO ₂ emissions	2.0 kg CO ₂ /m ³
Heating efficiency	90%
Heating cost saving	Approx. € 10,240 per year
CO ₂ saving	Approx. 17,060 kg CO ₂ /year

Tailor-made efficient system solutions!

Regardless of whether you are planning a completely new air station or just replacing individual compressors, it pays to take a close look at the options available. As a compressed air systems provider with decades of experience, we can support you with an analysis of your system requirements and help you to find the optimum solution in every respect, from energy efficiency to compressed air quality and availability.



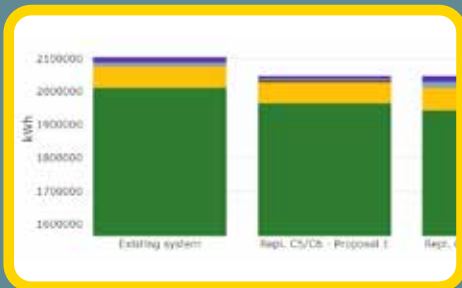
Your company situation

A KAESER-trained specialist will speak to you about your objectives and plans, then take stock of your existing compressed air station. Even at this early stage, we will focus on optimisation potential, e.g. intake and cooling air flows, correct dimensioning of pipes, etc.



ADA (Air Demand Analysis)

Now we get down to the details: In order to precisely determine compressed air demand, as well as the running characteristics of the individual compressors, KAESER's own sensors and data loggers are installed. Depending on the size of the station, this can even be achieved during the first visit!



KESS (KAESER Energy Saving System)

Based on the data collated, different design solutions can now be simulated using our KESS software. The goal is clear: to identify the optimal combination of compressors, buffer volumes, and various control parameters for your needs. We will produce a comprehensive report containing all the information you require to make your decision.



A tailored solution

Once we have identified the optimum solution, we will assist you in bringing it to fruition. As a compressed air systems provider, we can offer detailed planning of the entire compressor station, from the compressors to the compressed air treatment and the controller. This includes P&I diagrams, installation diagrams and 3D drawings of your compressed air station.



KAESER AIR SERVICE

Uncompromising excellence



One of the key requirements for any compressed air supply is maximum availability. To guarantee this on a continuous basis, KAESER AIR SERVICE is always there for you. No matter whether it's performing commissioning, maintenance or repairs, our customer service stands out for its uncompromising excellence. Around the clock. Worldwide.

KAESER AIR SERVICE is there, wherever you need it: all over the world, highly qualified Service Technicians are ready to assist you. Our customer service ensures perfectly executed maintenance and repair work for maximum efficiency. Close proximity ensures a rapid response, which translates into maximum compressed air availability.

KAESER AIR SERVICE ensures a long service life for your compressed air system: perfectly matched service concepts and high-quality, genuine KAESER parts guarantee sustainable operation of your compressed air supply. KAESER service vehicles are stocked with a comprehensive range of maintenance and spare parts, ensuring that many types of repair can be carried out immediately. Should additional parts be required, the advanced logistics centre at the main plant in Coburg will ship the necessary items overnight.

24-hour support

Compressed air needs to be available all day, every day, which is why technical support staff, replacement parts and Service Technicians are on hand 24/7.



The service hotline number can be found at www.kaeser.com (select your country).



The foundations of product development

KAESER sets new standards when it comes to dependability, efficiency and sustainability. However, we are not satisfied delivering just that. Our products and services are continuously being optimised, with the objective of achieving ever-greater energy efficiency, best possible compressed air availability and optimum cost efficiency for our customers. KAESER products are designed not only to be extremely efficient during operation; energy consumption is also minimised as far as possible during the production process. When it comes to our own investments and purchasing, we strive to seek ever more energy-efficient products and services. KAESER's innovations help to reduce energy consumption significantly and to save

operating costs. They also contribute to the preservation of resources and the reduction of emissions. Our energy-efficient solutions help our customers to achieve their own sustainable and environmentally responsible operation. True to the KAESER philosophy of "More compressed air for less energy", our products not only operate with exceptional cost efficiency and eco-friendliness, but also minimise the use of valuable environmental resources during production, distribution, and service.



RETHINK

Think and rethink anew

Sustainable product development requires new approaches and ways of thinking.

KAESER trains selected employees in Design Thinking at the Hasso Plattner Institut, thereby achieving new and innovative approaches to product development.



RESEARCH

Develop knowledge

KAESER has continuously advanced its expertise in compressed air technology for over 100 years.

Today, state-of-the-art simulation and calculation tools, together with the validation of prototypes, provide the basis for the acquisition of knowledge.

This in turn establishes the basis for a highly efficient, dependable and resource-friendly compressed air supply.



REDUCE

Reduce resource consumption

The highest resource consumption in compressed air technology occurs over long-term operation.

Accordingly, the compressed air supply must be as energy-saving as possible. For KAESER, efficiency is the ultimate goal.



REPAIR

Maintenance-friendly design

Maintenance-friendly design and repairability are evaluated and optimised by KAESER's service technicians during the development process.

Equipment

Complete system

Ready-to-run, fully automatic, super silenced, vibration damped, all panels powder coated. Suitable for use in ambient temperatures up to +45 °C

Sound insulation

Panels lined with laminated mineral wool

Vibration damping

Double-insulated anti-vibration mounts with metal elements

Airend

Genuine KAESER single-stage airend with energy-saving SIGMA PROFILE and cooling fluid injection for optimised rotor cooling

Drive

Highly efficient transmission via case-hardened timing gears; dedicated cooling fluid injection for optimum lubrication

Electric motor

Standard system with Super Premium Efficiency IE4 drive motor, quality German manufacture, IP 55, Iso F class insulation for additional reserve; Pt100 temperature sensor in windings for monitoring of the motor; A-bearings lubricated by cooling fluid, B-bearings regreasable

Optional SFC frequency control

Synchronous reluctance motor, quality German manufacture, IP 55, with Siemens frequency converter, motor with IE5 efficiency class, drive system with IES2 energy efficiency class

Electrical components

IP 54 control cabinet, control transformer, floating contacts e.g. for ventilation system, configurable digital and analogue inputs and outputs

Cooling fluid and air flow

Dry air filter; pneumatic inlet and venting valve; cooling fluid reservoir with three-stage separator system; safety valve, minimum pressure check valve, Electronic Thermal Management (ETM) and ECO fluid filter in cooling fluid circuit; fully piped, flexible line connections

Cooling

Air-cooled; separate aluminium cooler for compressed air and cooling fluid; radial fan with speed-controlled EC motor, Electronic Thermal Management (ETM); water-cooled version optionally available (see options)

Refrigeration dryer

CFC-free, R-513A refrigerant, hermetically sealed refrigerant circuit, scroll refrigerant compressor with energy-saving shut-off feature, hot gas bypass control, electronic condensate drain, upstream centrifugal separator

Heat recovery (HR)

Optionally available with integrated HR system (plate-type heat exchanger)

SIGMA CONTROL 2

“Traffic light” LED indicators display operating status at a glance, plain text display, 30 selectable languages, soft-touch keys with icons, fully automatic monitoring and control; selection of DUAL, QUADRO, VARIO, DYNAMIC, MONO operating modes; Ethernet interface; SD card slot for data-logging and updates; RFID reader; web server; additional optional communications modules for: Profibus DP, Modbus TCP, Modbus RTU, Profinet IO, EtherNet/IP and DeviceNet

Options

- ✓ Integrated heat recovery for heating of water via plate-type heat exchanger. Available with $\Delta T = 25\text{ K}$ or $\Delta T = 55\text{ K}$
- ✓ Integrated water-cooling, optionally equipped with plate-type heat exchangers (ideal for clean cooling water) or shell and tube heat exchangers (robust against contamination and easy to clean)
- ✓ Cooling air filter mats for protecting the cooler from contamination
- ✓ Bolt-down machine feet for secure fixing of compressor at installation location
- ✓ Partial load control MODULATING CONTROL
- ✓ Equipped for connection to IT power network (SFC systems only)
- ✓ Fluid-fill with food-grade fluid (NSF H1)

How it works

The air for compression passes through the intake filter (1) and the inlet valve (2) into the SIGMA PROFILE airend (3). The airend (3) is driven by a high-efficiency electric motor (4). The cooling oil injected for cooling purposes during compression is separated from the air in the fluid separator tank (5). The compressed air flows through the 2-stage oil separator cartridge (6) and the minimum pressure check valve (7) into the compressed air aftercooler (8). Following cooling, any accumulated condensate is removed from the compressed air by the integrated centrifugal separator (9) and then drained away via the add-on ECO-DRAIN condensate drain (10). The condensate-free compressed air then exits the system via the compressed air connection (11). The heat generated during the compression process is removed from the cooling oil via the fluid cooler (12) and dissipated into the surrounding environment by a speed-controlled fan unit (13). The cooling oil is then cleaned by the ECO fluid filter (14). The Electronic Thermal Management system (15) ensures efficient and reliable low operating temperatures. The control cabinet (16) houses the internal SIGMA CONTROL 2 compressor controller (17) and, depending on the compressor version, the star-delta starter or the frequency converter (SFC). Versions are available featuring an add-on refrigeration dryer (18) that cools the compressed air down to +3 °C, thereby ensuring effective moisture removal.

- (1) Intake filter
- (2) Inlet valve
- (3) SIGMA PROFILE airend
- (4) IE4 / IE5 drive motor
- (5) Fluid separator tank
- (6) Oil separator cartridge
- (7) Minimum pressure check valve
- (8) Compressed air aftercooler
- (9) KAESER centrifugal separator
- (10) Condensate drain (ECO-DRAIN)
- (11) Compressed air connection
- (12) Fluid cooler
- (13) Fan unit
- (14) ECO fluid filter
- (15) Electronic Thermal Management
- (16) Control cabinet with optional SFC frequency converter
- (17) SIGMA CONTROL 2 compressor controller
- (18) Optional add-on refrigeration dryer



Technical data – CSD

Standard version

Model	Working pressure	Flow rate *) Complete system at working pressure	Max. overpressure	Drive motor rated power	Dimensions W x D x H	Compressed air connection	Sound pressure level **)	Weight
	bar	m³/min	bar	kW	mm		dB(A)	kg
CSD 90	6	9.61	6	45	1790 x 1100 x 1900	G 2	68	1340
	7.5	8.85	7.5				67	
	8.5	8.45	8.5				67	
	10	7.6	10				67	
	12	6.63	12				67	
CSD 110	6	11.4	6	55	1790 x 1100 x 1900	G 2	73	1410
	7.5	10.65	7.5				72	
	8.5	10.17	8.5				72	
	10	9.3	10				71	
	12	8.2	12				69	
	15	7.05	15				69	
CSD 130	6	14.7	6	75	1790 x 1100 x 1900	G 2	73	1600
	7.5	12.9	7.5				72	
	8.5	12	8.5				72	
	10	11.1	10				71	
	12	9.95	12				69	
	15	8.26	15				69	

SFC version with variable-speed drive

Model	Working pressure	Flow rate *) Complete system at working pressure	Max. overpressure	Drive motor rated power	Dimensions W x D x H	Compressed air connection	Sound pressure level **)	Weight
	bar	m³/min	bar	kW	mm		dB(A)	kg
CSD 90 SFC	7.5	1.94 - 8.66	8.5	45	1840 x 1100 x 1900	G 2	71	1370
	10	1.79 - 7.50	12				68	
CSD 110 SFC	7.5	2.29 - 10.48	8.5	55	1840 x 1100 x 1900	G 2	70	1390
	10	1.90 - 9.14	12				69	
	13	1.58 - 7.79	15				70	
CSD 130 SFC	7.5	2.90 - 12.82	8.5	75	1840 x 1100 x 1900	G 2	73	1420
	10	2.31 - 11.37	12				72	
	13	1.88 - 9.18	15				70	

*) Flow rate complete system as per ISO 1217: 2009 Annexe C/E: intake pressure 1 bar (a), cooling and air inlet temperature +20 °C
**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, tolerance: ± 3 dB (A)
***) Power consumption (kW) at ambient temperature +20 °C and 30% relative humidity

T version with integrated refrigeration dryer (refrigerant R-513A)

Model	Working pressure	Flow rate *) Complete system at working pressure	Max. overpressure	Drive motor rated power	Refrigeration dryer model	Dimensions W x D x H	Compressed air connection	Sound pressure level *)	Weight
	bar	m³/min	bar	kW		mm		dB(A)	kg
CSD 90 T	6	9.61	6	45	ABT 132	2210 x 1100 x 1900	G 2	68	1540
	7.5	8.85	7.5					67	
	8.5	8.45	8.5					67	
	10	7.6	10					67	
	12	6.63	12					67	
CSD 110 T	6	11.4	6	55	ABT 132	2210 x 1100 x 1900	G 2	71	1610
	7.5	10.65	7.5					70	
	8.5	10.17	8.5					69	
	10	9.3	10					70	
	12	8.2	12					69	
	15	7.05	15					70	
CSD 130 T	6	14.7	6	75	ABT 132	2210 x 1100 x 1900	G 2	73	1800
	7.5	12.9	7.5					72	
	8.5	12	8.5					72	
	10	11.1	10					71	
	12	9.95	12					69	
	15	8.26	15					69	

T SFC version with variable-speed drive and integrated refrigeration dryer

Model	Working pressure	Flow rate *) Complete system at working pressure	Max. over-pressure	Drive motor rated power	Refrigeration dryer model	Dimensions W x D x H	Compressed air connection	Sound pressure level *)	Weight
	bar	m³/min	bar	kW		mm		dB(A)	kg
CSD 90 T SFC	7.5	1.94 - 8.66	8.5	45	ABT 132	2260 x 1100 x 1900	G 2	71	1570
	10	1.79 - 7.50	12					68	
CSD 110 T SFC	7.5	2.29 - 10.48	8.5	55	ABT 132	2260 x 1100 x 1900	G 2	70	1590
	10	1.90 - 9.14	12					69	
	13	1.58 - 7.79	15					70	
CSD 130 T SFC	7.5	2.90 - 12.82	8.5	75	ABT 132	2260 x 1100 x 1900	G 2	73	1620
	10	2.31 - 11.37	12					72	
	13	1.88 - 9.18	15					70	

Technical data for add-on refrigeration dryer

Model	Refrigeration dryer power consumption	Pressure dew point	Refrigerant	Refrigerant charge	Global warming potential	CO ₂ equivalent	Hermetic refrigeration circuit
	kW	°C		kg	GWP	t	
ABT 132	1.3	3	R-513A	1.04	631	0.66	–

Technical data – CSDX

Standard version

Model	Working pressure	Flow rate *) Complete system at working pressure	Max. overpressure	Drive motor rated power	Dimensions W x D x H	Compressed air connection	Sound pressure level **)	Weight
	bar	m³/min	bar	kW	mm		dB(A)	kg
CSDX 145	6	15.85	6	75	2100 x 1280 x 1950	G 2½	72	1890
	7.5	15.4	7.5				72	
	8.5	14.2	8.5				72	
	10	12.8	10				71	
	12	11.63	12				71	
CSDX 175	6	19.5	6	90	2100 x 1280 x 1950	G 2½	76	2030
	7.5	18.1	7.5				75	
	8.5	16.7	8.5				72	
	10	15.5	10				74	
	12	13.85	12				75	
	15	12.1	15				75	

SFC version with variable-speed drive

Model	Working pressure	Flow rate *) Complete system at working pressure	Max. overpressure	Drive motor rated power	Dimensions W x D x H	Compressed air connection	Sound pressure level **)	Weight
	bar	m³/min	bar	kW	mm		dB(A)	kg
CSDX 145 SFC	7.5	3.55 - 14.53	8.5	75	2100 x 1280 x 1950	G 2½	72	1700
CSDX 175 SFC	7.5	3.83 - 17.11	8.5	90	2100 x 1280 x 1950	G 2½	73	1870
	10	3.45 - 14.33	12				72	

*) Flow rate complete system as per ISO 1217: 2009 Annexe C/E: intake pressure 1 bar (a), cooling and air inlet temperature +20 °C
**) Sound pressure level as per ISO 2151 and basic standard ISO 9614-2, tolerance: ± 3 dB (A)
***) Power consumption (kW) at ambient temperature +20 °C and 30% relative humidity

T version with integrated refrigeration dryer (refrigerant R-513A)

Model	Working pressure	Flow rate *) Complete system at working pressure	Max. overpressure	Drive motor rated power	Refrigeration dryer model	Dimensions W x D x H	Compressed air connection	Sound pressure level **)	Weight
	bar	m³/min	bar	kW		mm		dB(A)	kg
CSDX 145 T	6	15.85	6	75	ABT 200	2520 x 1280 x 1950	G 2½	72	2170
	7.5	15.4	7.5					72	
	8.5	14.2	8.5					72	
	10	12.8	10					71	
	12	11.63	12					71	
CSDX 175 T	6	19.5	6	90	ABT 200	2520 x 1280 x 1950	G 2½	76	2310
	7.5	18.1	7.5					75	
	8.5	16.7	8.5					72	
	10	15.5	10					74	
	12	13.85	12					75	
	15	12.1	15					75	

T SFC version with variable-speed drive and integrated refrigeration dryer

Model	Working pressure	Flow rate *) Complete system at working pressure	Max. over-pressure	Drive motor rated power	Refrigeration dryer model	Dimensions W x D x H	Compressed air connection	Sound pressure level **)	Weight
	bar	m³/min	bar	kW		mm		dB(A)	kg
CSDX 145 T SFC	7.5	3.55 - 14.53	8.5	75	ABT 200	2520 x 1280 x 1950	G 2½	72	1980
CSDX 175 T SFC	7.5	3.83 - 17.11	8.5	90	ABT 200	2520 x 1280 x 1950	G 2½	73	2150
	10	3.45 - 14.33	12					72	

Technical data for add-on refrigeration dryer

Model	Refrigeration dryer power consumption	Pressure dew point	Refrigerant	Refrigerant charge	Global warming potential	CO ₂ equivalent	Hermetic refrigeration circuit
	kW	°C		kg	GWP	t	
ABT 200	1.6	3	R-513A	1.1	631	0.69	–

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