KAESER COMPRESSORS®

Rotary Screw Compressors

SXC compact Series

With the world-renowned SIGMA PROFILE

Flow rate up to 0.80 m³/min, Pressure up to 15 bar

www.kaeser.com

SXC compact series

The compact complete solution

SXC – the integrated compressed air stations with minimal space requirement. As the saying goes, “Plug and play”: the rotary screw compressor, refrigeration dryer and air receiver are all housed together within a modern double-walled, roto-moulded PE enclosure to form a single, operation-ready unit.

Energy efficiency, maintenance friendliness, durability and perfectly matched components ensure years of dependable and economical operation in workshops and small-scale production operations.

Energy efficiency as standard

Every SXC compact compressed air station is equipped with a rotary screw airend featuring highly efficient SIGMA PROFILE rotors that generate more compressed air for less energy.

Versatile and space-saving

With drive power available from 2.2 to 5.5 kW, you can always find the right model type for your specific application. What is more, the four models in the SXC range achieve this performance with a compact footprint of only 0.62 square metres and a width of 61.5 cm.

Quiet and clean

With a sound level of 69 dB(A), SXC all-in-one compressor stations are exceptionally quiet. Moreover, their integrated refrigeration dryer ensures dry, clean compressed air. The electronic, level-controlled condensate drain reliably removes condensate from the air receiver and refrigeration dryer with zero energy loss.

Energy-saving and always ready

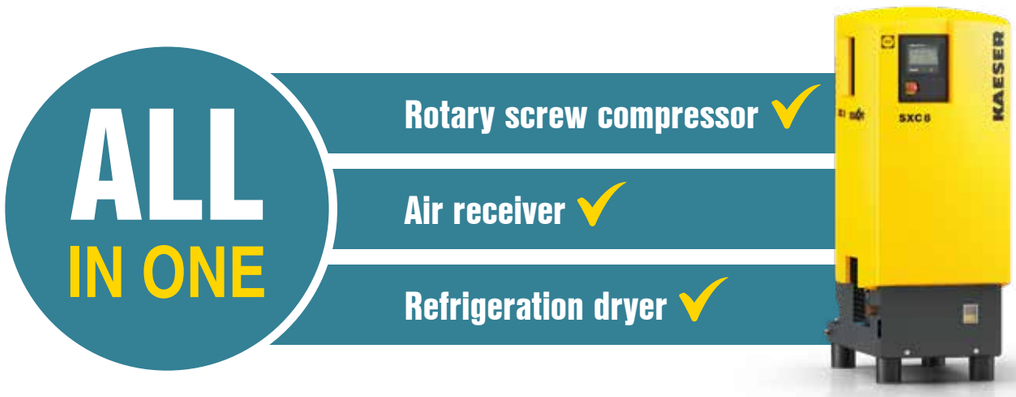
The SIGMA CONTROL compressor controller ensures dependable and optimised, cost-efficient operation of SXC systems.

Protected against corrosion damage

Thanks to the integrated refrigeration dryer, SXC compressed air stations deliver high-quality compressed air while protecting your tools and machines from corrosion damage.

Plug & Play

Our complete systems require comparatively little effort when it comes to piping and installation. Simply connect a power supply and the air distribution network to the station and it’s ready for immediate operation.



The all-in-one compressed air station with a compact footprint

PREMIUM EFFICIENCY IE3 MOTOR

Made in Germany

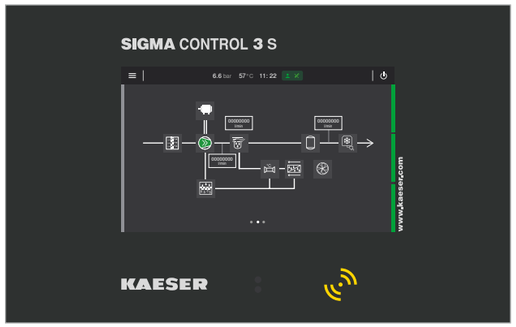
Image: SXC 8

SXC compact series

KAESER quality down to the smallest detail

Save energy with the SIGMA PROFILE

At the heart of every SXC machine lies a premium-quality airend featuring the energy-saving SIGMA PROFILE. KAESER airends are equipped with flow-optimised rotors, which contribute significantly to the complete system's class-leading specific package input power.

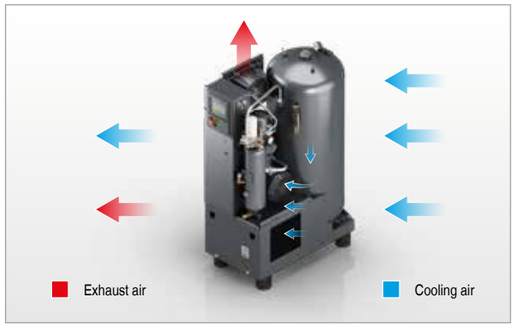


SIGMA CONTROL controller

Comprehensive overview of components and assemblies – including live values in real time. Intuitive icons show current system health status. Detailed views and settings options open at the click of a button. Highlighting of the air and oil circuits guarantees a precise system overview and optimal control.

Maintenance-friendly

All maintenance points are easily accessed by lifting off the lightweight housing enclosure constructed from roto-moulded polyethylene. The electronic condensate drain can be inspected via a grille. Needless to say, SXC systems are designed for maximum ease of maintenance.



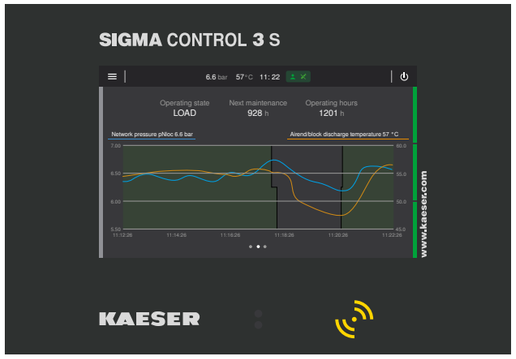
Efficient cooling

KAESER compressors are renowned for their innovative cooling solutions – and SXC systems are no exception.

SIGMA CONTROL internal compressor controller

SIGMA CONTROL

Intelligent, future-oriented, and efficient – the integrated SIGMA CONTROL compressor controller represents the future of cutting-edge compressed air systems. With its innovative platform concept for hardware and software, KAESER has set new standards in the control of stationary compressors. The SIGMA CONTROL not only boosts energy efficiency, but also enhances reliability and simplifies operation, whilst the touch display places intuitive control right at your fingertips. Clear visualisations provide an optimal overview of machine status, operating data, and maintenance information at all times. Fast navigation takes you directly to the key functions – no lengthy scrolling or searching required.



Maximum control with KAESER Connect

With our KAESER Connect app, you always have an eye on your compressor. All values are displayed in real time, allowing you to remain continuously informed about the current status of your compressed air system. Push notifications keep you up to speed with developments: important updates, KPIs, maintenance counter information, and machine states are delivered directly to your mobile device. The machine report provides even more transparency and can be sent quickly and easily to your smartphone or E-mail. This allows you to manage your compressed air system efficiently and comfortably, with maximum security – wherever you are.

Future-proof

Modular system architecture with universal, configurable IoT interfaces enables flexible adaptation to new requirements and technologies.

Greater efficiency

Intelligent control significantly reduces the energy consumption of your compressed air system.

Maximum dependability

Smart maintenance planning, early detection of deviations during operation, and detailed status messaging ensure reliable and interruption-free function.

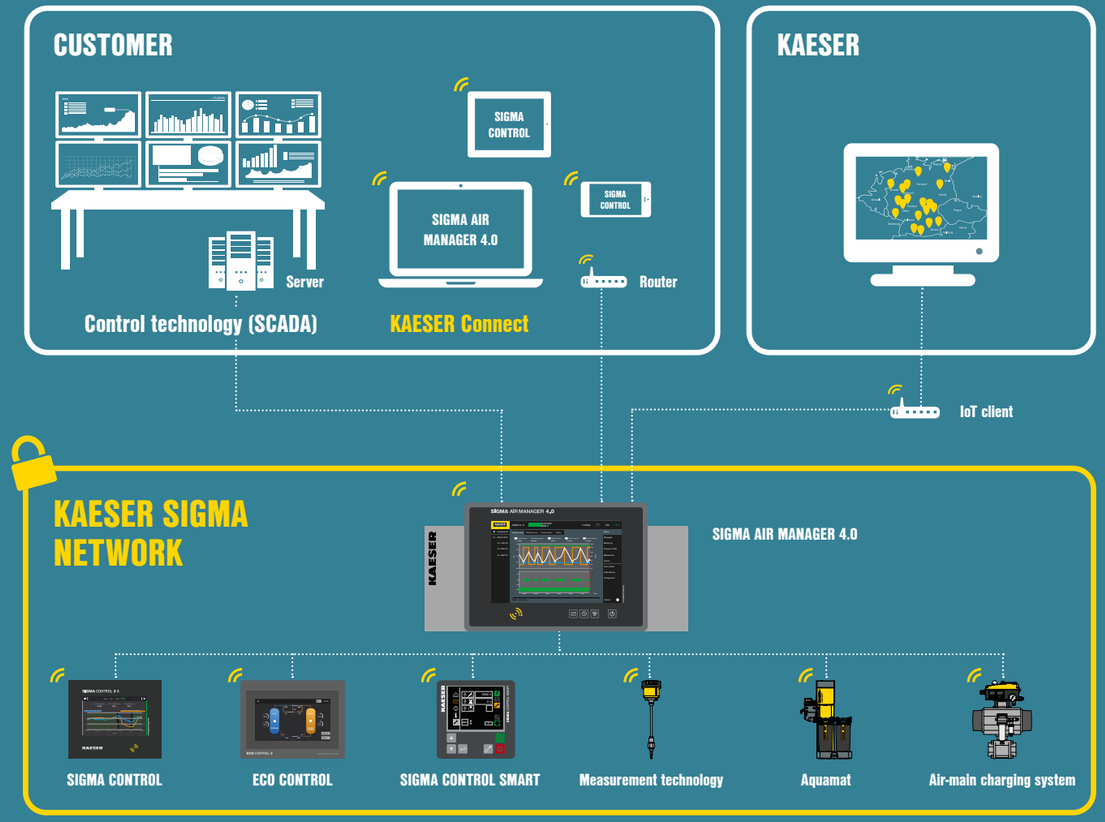
Comprehensive compatibility

Compatible with all KAESER compressors, whether current or previous models.

SIGMA AIR MANAGER 4.0 compressed air management system

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 determines future demand based on 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.



Equipment

Complete system

Ready to operate, fully automatic, super silenced, vibration damped; double-walled, roto-moulded polyethylene enclosure

Sound insulation

Sound enclosure, anti-vibration mounts with metal elements, double vibration damped

Airend

Single-stage with cooling-fluid injection for optimal rotor cooling; genuine KAESER rotary screw airend with SIGMA PROFILE

Electric motor

Energy-saving motor (IE3), quality German manufacture, IP54, Iso F for additional reserve

V-ribbed belt drive

Maintenance-free elastic belt; no re-tensioning required

Cooling fluid and air flow

Honeycombed dry-air filter; inlet with check valve; pneumatic venting valve; cooling-fluid reservoir with dedicated separator cartridge; safety valve, minimum pressure check valve, microfilter in cooling fluid circuit

Cooling

Air-cooled; aluminium cooler for cooling fluid with separate fan motor, second fan on drive motor shaft, automatic warm-up control (only active at very low load)

Air receiver

Internally coated; electronically controlled condensate drain

Electrical components

IP54 control cabinet; automatic star-delta protection combination (from 3 kW); overcurrent relay; control transformer

Refrigeration dryer

With stainless steel plate-type heat exchangers, integrated condensate separator, electronically controlled condensate drain, insulated refrigerant circuit

SIGMA CONTROL

Modular system with control unit and integrated inputs/outputs, designed for use with KAESER rotary screw compressors, traffic-light operating state display, fully automatic monitoring and control; Dual, Quadro, Dynamic, and Vario control modes, timer for compressor functions (On, Off) or external outputs, base load sequencing function for operation of two compressors, high-performance processor hardware; all components designed for industrial conditions, capacitive touchscreen with optical bonding, Time-of-Flight and other internal sensors, SD card slot for updates, USS bus communications module adapter for frequency converter, RFID reader, Ethernet interface for connection to KAESER SIGMA NETWORK.

Connection to centralised control systems available via optional communications modules for: Profibus DP, Modbus TCP, Profinet, and DeviceNet.

Technical data

Model	Working pressure bar	Flow rate, *) complete system at working pressure m³/min	Max. gauge pressure bar	Drive motor nominal power kW	Refrigeration dryer model	Pressure dew point °C	Refrigeration dryer differential pressure bar	Air receiver l	Dimensions W x D x H mm	Sound pressure level **) dB(A)	Weight kg
SXC 3	7.5	0.34	8	2.2	CT 4	+6	0.2	215	620 x 980 x 1480	68	285
	10	0.26	11								
SXC 4	7.5	0.45	8	3.0	CT 4	+6	0.2	215	620 x 980 x 1480	69	285
	10	0.36	11								
	13	0.26	15								
SXC 6	7.5	0.60	8	4.0	CT 8	+6	0.2	215	620 x 980 x 1480	69	290
	10	0.48	11		CT 4						
	13	0.37	15								
SXC 8	7.5	0.80	8	5.5	CT 8	+6	0.2	215	620 x 980 x 1480	69	300
	10	0.67	11								
	13	0.54	15		CT 4						

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

Refrigeration dryer technical specifications

Model	Refrigeration dryer power consumption kW	Pressure dew point °C	Refrigerant	Refrigerant charge kg	Global warming potential GWP	CO_2 equivalent t	Hermetic refrigeration circuit
CT 4	0.18	+3	R-513A	0.17	629	0.11	Yes
CT 8	0.28	+3	R-513A	0.24	629	0.15	Yes

SXC 8
KAESER

More compressed air for less energy

The world is our home

As one of the world's largest manufacturers of compressors, blowers and compressed air systems, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of wholly owned subsidiaries and authorised distribution partners in over 140 countries.

By offering innovative, efficient and reliable products and services, KAESER KOMPRESSOREN's experienced consultants and engineers work in close partnership with customers to enhance their competitive edge and to develop progressive system concepts that continuously push the boundaries of performance and technology. Moreover, decades of knowledge and expertise from this industry-leading systems provider are made available to each and every customer via the KAESER group's advanced global IT network.

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

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