

Screw Compressors

SX SERIES

Capacities from: 8.8 to 28.6 cfm

Pressures from: 80 to 217 psig



Rotary Screw Compressor

Maximum Reliability and Efficiency

For years, customers have depended on Kaeser for reliable equipment and complete compressed air system solutions. Our research and development team continues to produce industry-leading compressor technology to meet virtually any compressed air need. The new SX series rotary screw compressors are no exception.

These new 3 to 7.5 hp models combine our optimized Sigma Profile™ single-stage airend, high-efficiency motors, heavy-duty construction and simple modern controls into a compressor built for years of reliable service. A new cabinet design and component layout reduce noise levels and footprint while offering easier access during preventive maintenance.

Manufactured in a rigorous quality control program, Kaeser products are made to provide years of reliable service in the widest range of applications.

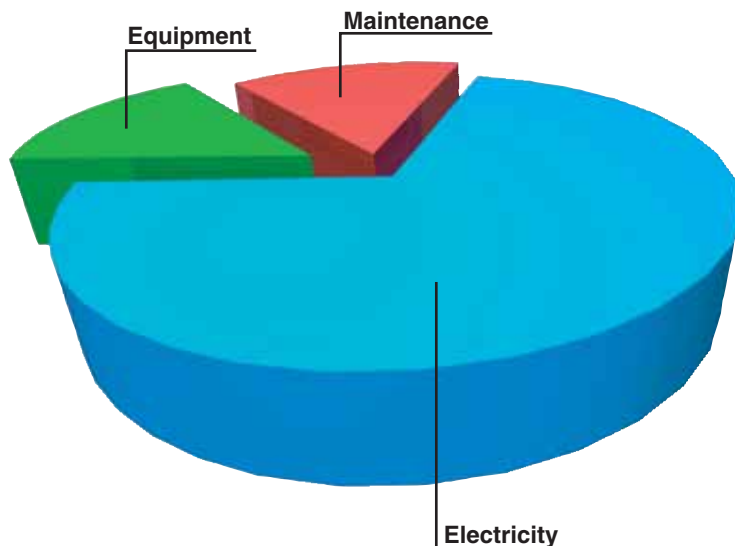
70% of Your Long Term Compressor Cost is Electricity

Analyze the total cost of a compressed air system and you'll realize that power cost is significant. In just one year it could exceed the cost of the compressor itself. Over a period of ten years, energy may add up to 70% of your overall costs for buying, operating, and maintaining an air system.

That's why it is important to consider energy efficiency when evaluating a new compressor.

Kaeser's proprietary Sigma Profile compresses air very efficiently and delivers up to 20% more cfm per horsepower than other airend designs. Combined with high-efficiency motors and our unique belt drive, this results in a compressor designed to achieve significant savings.

Every Kaeser product demonstrates our commitment to providing unrivaled quality and performance at the lowest overall cost.



1 Sigma Control™ Basic

A simple and reliable interface offers convenient pressure control and system monitoring with status displays and service indicators. Displays include discharge pressure and temperature, load and service hours as well as fault indicators.

2 Sigma Profile Airend



Our power-saving, proprietary airend design delivers pressures up to 217 psig. Kaeser uses a newly designed airend

for this SX series. It is precision-machined to close tolerances and optimized in size and profile to match the low airend speeds with their best specific performance, up to 20% less energy than comparable airends.

3 TEFC Motor with Reduced Voltage Starter



High-efficiency, totally enclosed, fan cooled (TEFC) motors with Class F insulation are standard for long life in harsh environ-

ments. Tri-voltage 208-230/460 or 575 V, 3-phase, 60 Hz is standard. Other voltages are available. EPA compliant. Magnetic Wye-Delta reduced voltage starters ensure low starting current and smooth acceleration.

SX

Designed for Reliability, Simplicity and Performance



4 Maintenance Friendly Design

The SX is designed to be easily maintained and serviced. Maintenance friendly features include:

- Full access to all service items from one side
- Drive belt needs no adjustments
- Cartridge style 4 micron inlet filter
- Quick fluid change without pumping
- Spin on 10 micron fluid filter
- Spin on separator element
- Quick release fittings, drain and fill ports on separator vessel
- Cleanable cooler filter mat
- Side panel windows to view fluid level and test the auto drain (on T versions and AirCenters)

5 Excellent Fluid Separation



We combine an over-sized cyclone separator vessel (ASME or CRN) with a convenient spin-on coalescing filter for superior fluid separation and exceptionally low carry-over (3 ppm or less). This results in less maintenance and better downstream air quality.

6 Fluid Cooling System

All units are filled with Kaeser Premium Fluid to cool, clean, and lubricate the airend. A thermostatically controlled combination valve ensures perfect fluid temperature regulation and incorporates a cooler by-pass and fluid filter. Main air and fluid lines are made of rigid pipe with flexible pipe connections. The 10 micron spin-on fluid filter extends fluid life and protects the airend.

7 Enclosure

Our superior cabinet design reduces noise and footprint while offering easy access for service. A heavy-duty metal enclosure with a durable powder-coated finish keeps noise in but dirt and dust out. Thick sound insulation keeps noise levels as low as 62 dB(A), more than 10 dB(A) quieter than comparable units.

All maintenance items are accessible behind one easily removed locking panel. The fluid level indicator is visible through a conveniently placed window in the service side panel.

Cooling System with Double-Flow Fan

The double-flow cooling fan produces the cooling air flow for the drive motor on one side and



the cooling air for the package on the other. The crescent-shaped fan blades help to further reduce sound emissions.

Air is drawn into separate cooling zones for the drive motor and coolers. This "split cooling" design eliminates pre-heating, increasing cooling efficiency without increasing power consumption. Cooler temperatures also promote longer lubricant and motor life. Cooling air is exhausted through a single port at the top of the cabinet. Ducting this air enables heat recovery for significant energy savings.



➡ Fresh cooling air

➡ Recirculated air

➡ Exhaust air

Options

SX-T with Integral Dryer



SX "T" models have integral refrigerated dryers, featuring plate-type heat exchangers and moisture separator, with stainless steel construction for long life. The refrigerant is CFC-free R134a. The dryer is controlled through the Sigma Control Basic and requires no additional electrical hook up.



Condensate Drain

The Eco-Drains are controlled by reliable capacitance sensors. Robust aluminum housings and patented pilot



air-controlled valve technology ensure many years of reliable service even when subjected to harsh condensate. These energy-saving drains remove condensate - but not valuable compressed air.

AirCenter

Kaeser's SX series AirCenter systems offer more space-saving compressed air production, treatment and storage. They redefine the concept of turnkey compressed air systems, as each model features the very latest technology to ensure

outstanding performance. The three main components — the compressor, refrigeration dryer and air receiver — are enclosed as a single, integrated unit. The components are perfectly matched to provide optimum energy efficiency, ease of maintenance and unrivalled durability.



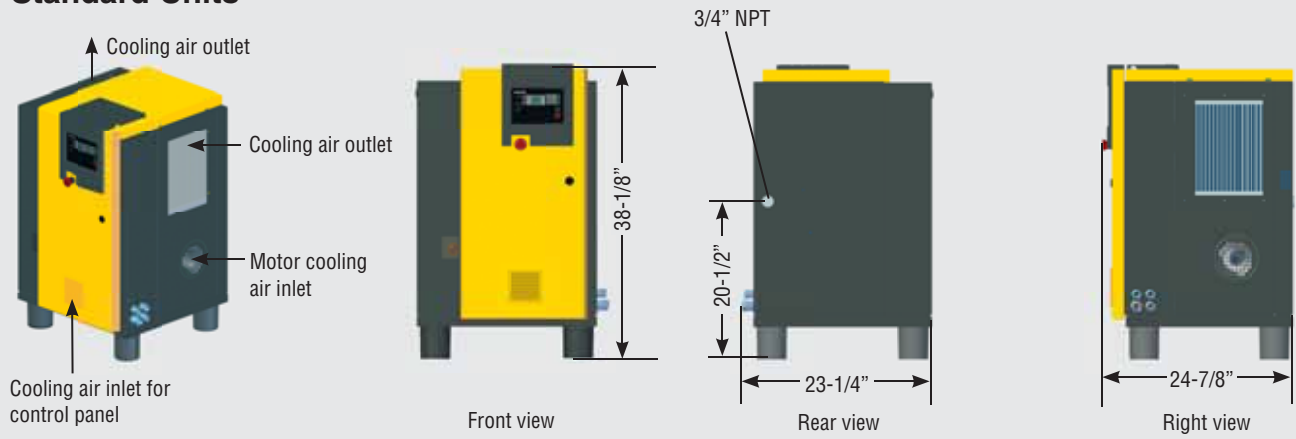
Other Options:

- An optional five year warranty is available.
- Programming Module - enables the Sigma Control™ Basic to be connected to an external compressor controller. Simply plug in the module and the SX can be controlled, along with other compressors, by a Sigma Air Manager or other master controller.
- PC-based Sigma Control system provides robust monitoring and control functions as well as compressor maintenance indicators and trouble shooting. Plain text display in up to 30 languages. Open architecture with built-in RS 232, RS 485, and Profibus ports for integration into master control systems.

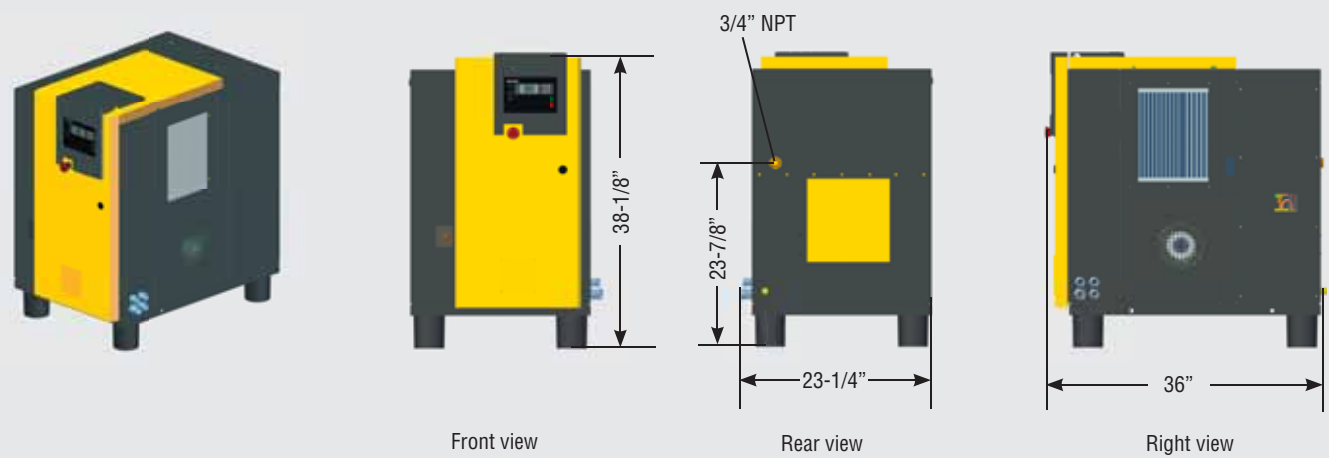
Dimensions

Dimensions are for reference only — please contact Kaeser for dimensional drawings.

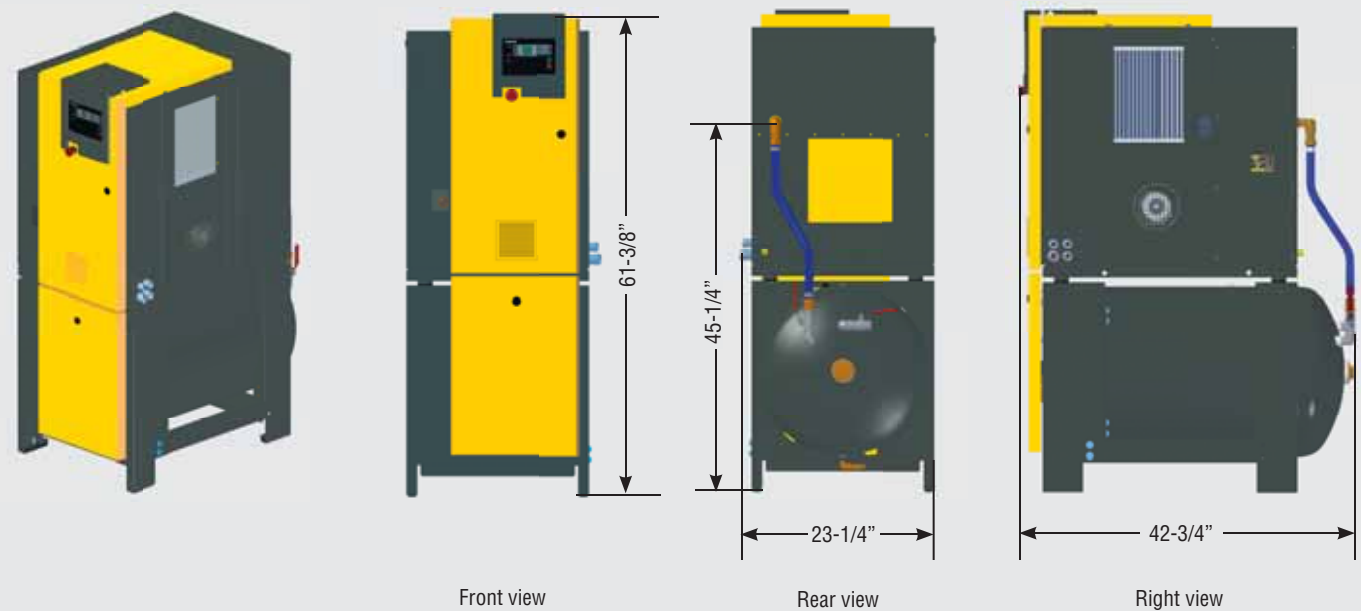
Standard Units



T Version with Integrated Refrigerated Dryer



AirCenter



Compressed Air System Design

Kaeser's team of engineers are always at your service to help design or optimize your compressed air system. With decades of experience in system design, special applications and energy audits, our entire team can meet your unique requirement.

Using specialized tools such as our Air Demand Analysis and Kaeser Energy Saving System we can provide an accurate assessment of your existing installation and use predictive models to demonstrate how proposed changes will improve your system performance.

Then, using a state-of-the-art CAD software, Kaeser can lay out the proposed system and produce traditional two-dimensional and three-dimensional drawings. This is a huge benefit in project planning. It helps you visualize not only new equipment, but also how it will fit into the building along with existing equipment, piping, walls, vents, etc. This helps ensure smooth installation, good access for service and reliable operation.

From complex installations to challenging environments to limited space, Kaeser can design and lay out a system to meet your specified requirements for performance and reliability.

Specifications

Model	Operating Pressure (psig)	Capacity at Operating Pressure (cfm)	Motor (hp)	Standard Units Air-cooled, Sound-proofed	
				Dimensions L x W x H (in)	Weight (lb)
SX 3 SX 3T	125	12.0	3	23 ¹ / ₄ x 24 ⁷ / ₈ x 38 ¹ / ₈	309
	160	9.2		23 ¹ / ₄ x 36 x 38 ¹ / ₈	408
	—	—			
SX 4 SX 4T	125	15.9	4	23 ¹ / ₄ x 24 ⁷ / ₈ x 38 ¹ / ₈	309
	160	12.7		23 ¹ / ₄ x 36 x 38 ¹ / ₈	408
	217	8.8			
SX 5 SX 5T	125	21.2	5	23 ¹ / ₄ x 24 ⁷ / ₈ x 38 ¹ / ₈	320
	160	17.0		23 ¹ / ₄ x 36 x 38 ¹ / ₈	419
	217	12.7			
SX 7.5 SX 7.5T	125	28.3	7.5	23 ¹ / ₄ x 24 ⁷ / ₈ x 38 ¹ / ₈	342
	160	23.7		23 ¹ / ₄ x 36 x 38 ¹ / ₈	441
	217	18.7			

Standard units are air-cooled and sound proofed.

* SX 3 pressure limited to 160 psig and uses DOL starting.

Specifications are subject to change without notice.



KAESER COMPRESSORS

Built for a lifetime.™

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Certified Management Systems



The Air Systems Specialist

With over 85 years of experience, Kaeser is the air systems specialist. Our extensive 100,000 square foot facility allows us to provide unequalled product availability. With service centers nationwide and our 24-hour emergency parts guarantee, Kaeser customers can rely on the best after-sales support in the industry. Kaeser stands committed to providing the highest quality air system for your specific compressed air needs.