

Screw Compressors

AS SERIES

Capacities from: 59 to 124 cfm

Pressures from: 80 to 217 psig



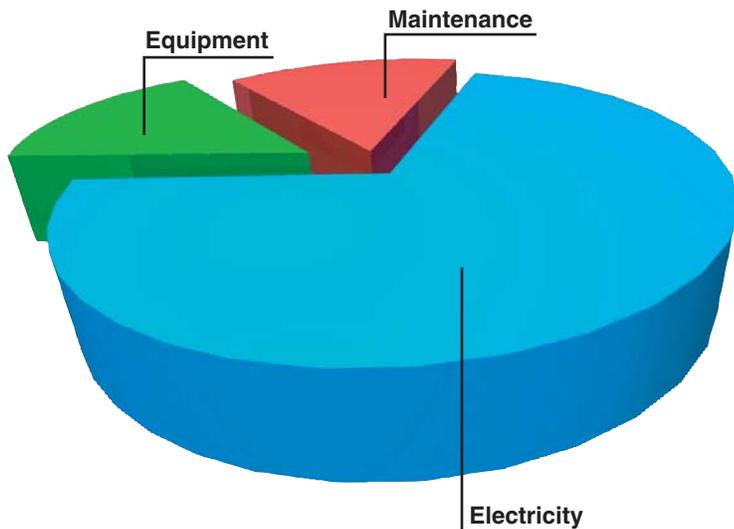
Built for a lifetime

Maximum efficiency and reliability have long been the hallmarks of Kaeser Compressors. Our commitment to excellence drives us to continually enhance and optimize our compressed air system solutions. With a cutting edge research and development team committed to producing industry leading products, Kaeser constantly strives to offer lasting solutions for our customers' compressed air needs. The AS series rotary screw compressor delivers on all accounts.

In every machine Kaeser builds you'll find many features to enhance reliability and simplify maintenance, from the heavy gauge steel frame with double vibration isolation to the quick fluid change feature.

Our airends are built to stand up to many years of tough service. We make TEFC motors standard and use pipe instead of cheap tubing. A well-planned cabinet design and component layout reduce noise and footprint with easier access during preventive maintenance. The list goes on and on. Our customers expect excellence and we make it happen.

Built to perform. Built to last. Kaeser compressors are built for a lifetime.



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 more cfm per kW than other airend designs. Combined with high-efficiency motors and lower internal pressure drop, 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.



Sigma Control™ Basic

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

Sigma Profile Airend

Our power-saving, proprietary airend design delivers pressures up to 217 psig and is precision-machined to close tolerances and optimized to match the low airend speeds with its best specific performance.



TEFC Motor with Reduced Voltage Starter

Premium-efficiency, totally enclosed, fan cooled (TEFC) motors with Class F insulation are standard for long life in harsh environments. Tri-voltage 208-230/460 or 575 V, 3-phase, 60 Hz is standard. Other voltages are available. Magnetic Wye-Delta reduced voltage starters ensure low starting current and smooth acceleration.



AS Series



Belt Drive with Automatic Tensioning



A ribbed single belt drive efficiently transfers power from motor to airend. Our unique automatic tensioning device maintains proper tension to maximize energy efficiency, prolong belt life, and simplify routine maintenance. The belt tension can easily be verified through a window in the service panel.

Efficient Separator System

A three-stage separator (ASME or CRN) combines



centrifugal action and a 2 stage coalescing filter to reduce fluid carry over to 2 ppm or less. Quick release fittings, drain, and fill ports are arranged for fast and easy fluid changes from sump and cooler without any pumping device. The easy-to-read fluid level indicator can be checked without opening or stopping the compressor through a window in the service panel.

High-Efficiency Coolers with Filter Mat

Conveniently located on the outside of the unit, our



standard high-efficiency coolers provide maximum cooling resulting in approach temperatures as low as 11°F for more moisture separation at the compressor discharge and better air quality. A filter mat simplifies cooler maintenance. Dirt and dust build up on the outside of the filter, where it is easily seen and removed. This extends cooler service intervals and increases thermal reserve for harsher conditions.

Ease of Maintenance

Many features make our AS models easy to service, including:

- 1 Easy single panel access for routine service (not shown)
- 2 Maintenance reminders on controller
- 3 Cartridge style 1 micron inlet filter*
- 4 Spin-on 10 micron fluid filter
- 5 Quick fluid change system with drain hose
- 6 Single piece, multi-ribbed belt with automatic tensioner
- 7 Front panel window to view fluid level indicator
- 8 Cleanable filter mat on coolers*

*no tools required

Double-flow Cooling Fan

Patent-pending double-flow fan design increases air flow through the unit while



reducing overall power requirements and sound levels. Sickle-shaped fan blades with foam-covered air guiding ring.

Optimized Air Flow Design

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 and further reduces noise.

Air for compression enters through a separate grill on the back side of the cabinet. It is then filtered through a two-stage air intake filter. This filter protects the airend and extends fluid change intervals.



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 sound levels as low as 67 dB(A), up to 10 dB(A) quieter than comparable units.

Lockable panels provide easy access to all maintenance items. The fluid level indicator is visible through a conveniently placed window in the cover.

Internal and external vibration isolators eliminate stress on piping and wire connections, further increasing reliability.

Electrical components are housed in a spacious, ventilated control cabinet. Wiring is neatly arranged and terminals are clearly identified.

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 spin-on fluid filter. Main air and fluid lines are made of rigid pipe with flexible pipe connections. A 10 micron spin-on fluid filter is within easy reach of the front cover. This filter extends fluid life and protects the airend. The fluid level is easily checked while the compressor is running.

Options

Integral Refrigerated Dryer Option

AS "T" models have integral refrigerated dryers with moisture separators and electronic Eco-Drains.

The dryer features plate-type heat exchangers and a moisture separator, with stainless steel construction for long life.

The Eco-Drain has a robust aluminum housing and patented pilot air-controlled valve technology to ensure many years of reliable service even when subjected to harsh condensate. These energy-saving drains remove condensate without wasting valuable compressed air.

We use only CFC-free R134a refrigerant. The dryer is controlled through the compressor controller and requires no additional electrical hook up.



Options Cont.

Sigma Control 2™

Sigma Control 2 - a rugged industrial controller which offers unsurpassed compressor control and monitoring. It has a large, easy-to-read plain text display with up to 30 language options. An RFID reader eliminates the need for manual password entry and simplifies preventive maintenance.



The Sigma Control 2 has a communications port adaptable to Profinet, Devicenet, Profibus, and Modbus for seamless integration into master control/monitoring systems. An Ethernet port with built-in web server enables remote viewing.

Standard software includes several advanced control profiles (including Automatic Dual, Quadro, and Vario control), which makes it ideal for multiple compressor systems. Easily upgradable via the SD card slot

Other Options

- Five year warranty on airend, motor, and controller.
- AirCenter™ packages with refrigerated dryer, drain, and receiver tank.

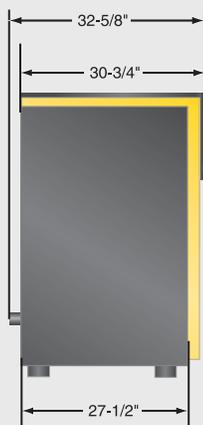
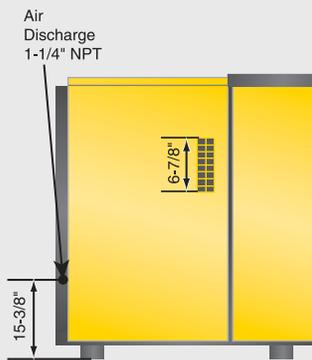
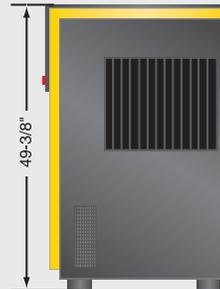
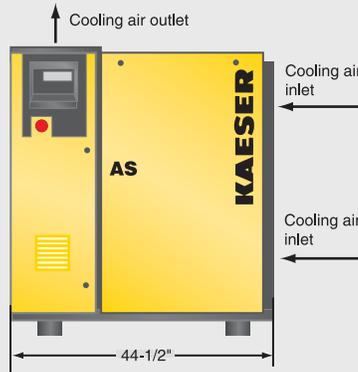


AirCenter AS 30T.

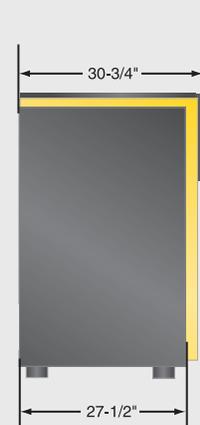
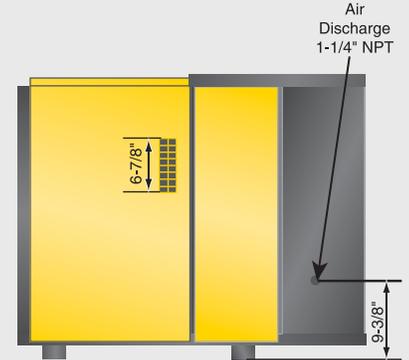
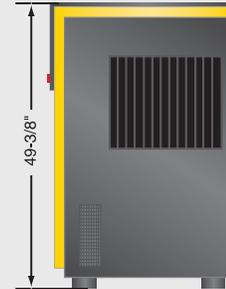
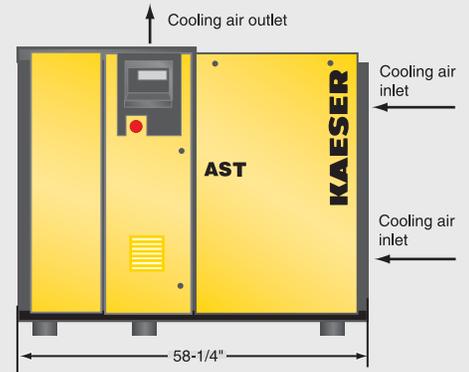
Dimensions

Dimensions are for reference only — please contact Kaeser for dimensional drawings. For SFC option dimensions, please see SFC literature.

Standard Units



Standard Units with Optional Dryer



Compressed Air System Design

Kaeser's team of engineers are always at your service to help design or optimize your compressed air system.

Using our Air Demand Analysis (ADA) and Kaeser Energy Saving System (KESS) we can evaluate your existing installation and demonstrate how proposed changes will improve your system performance.

Kaeser can also produce two-dimensional and three-dimensional drawings of the proposed system. This is a huge benefit in project planning. It helps visualize new equipment and how it will fit into the building along with existing equipment, piping, walls, vents, etc. This facilitates installation planning.

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

Technical Specifications for Standard Units*

Model	Operating Pressure (psig)	Capacity at Operating Pressure (cfm) ⁽¹⁾	Motor (hp)	Dimensions L x W x H (in)	Weight (lb) ⁽²⁾	Sound Level dB(A) ⁽³⁾
AS 20 AS 20T	125	92	20	44 ¹ / ₂ x 32 ⁵ / ₈ x 49 ³ / ₈	860	67
	160	77		58 ¹ / ₄ x 30 ³ / ₄ x 49 ³ / ₈	1025	
	217	59				
AS 25 AS 25T	125	111	25	44 ¹ / ₂ x 32 ⁵ / ₈ x 49 ³ / ₈	893	69
	160	94		58 ¹ / ₄ x 30 ³ / ₄ x 49 ³ / ₈	1058	
	217	72				
AS 30 AS 30T	125	124	30	44 ¹ / ₂ x 32 ⁵ / ₈ x 49 ³ / ₈	926	71
	160	104		58 ¹ / ₄ x 30 ³ / ₄ x 49 ³ / ₈	1091	
	217	83				

⁽¹⁾ Performance rated in accordance with CAGI/ISO 1217 test code. ⁽²⁾ Weights may vary slightly depending on airtend model. ⁽³⁾ Per ISO 2151 using ISO 9614-2.

Note: Other pressures available from 80 to 217 psig.

*For units with SFC, please contact your local authorized Kaeser distributor

Specifications are subject to change without notice.



KAESER COMPRESSORS

Built for a lifetime.™

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Certified Management Systems

