

Screw Compressors

AS SERIES

Capabilities from: 59 to 124 cfm
Pressures from: 80 to 217 psig



AS Series

Built for a lifetime.™

Kaeser Compressors has pushed the boundaries of compressed air efficiency once again with the AS series rotary screw compressors. Not only do these compressors deliver more compressed air for sustainable energy savings, they also combine ease of use with exceptional reliability and simple maintenance.

Innovation you can trust

With a cutting edge research and development team committed to building industry-leading products, Kaeser continues to deliver better solutions to meet our customers' compressed air needs. Kaeser's expertise and world-wide reputation for superior reliability and efficiency offer great performance and peace of mind.

Kaeser reliability

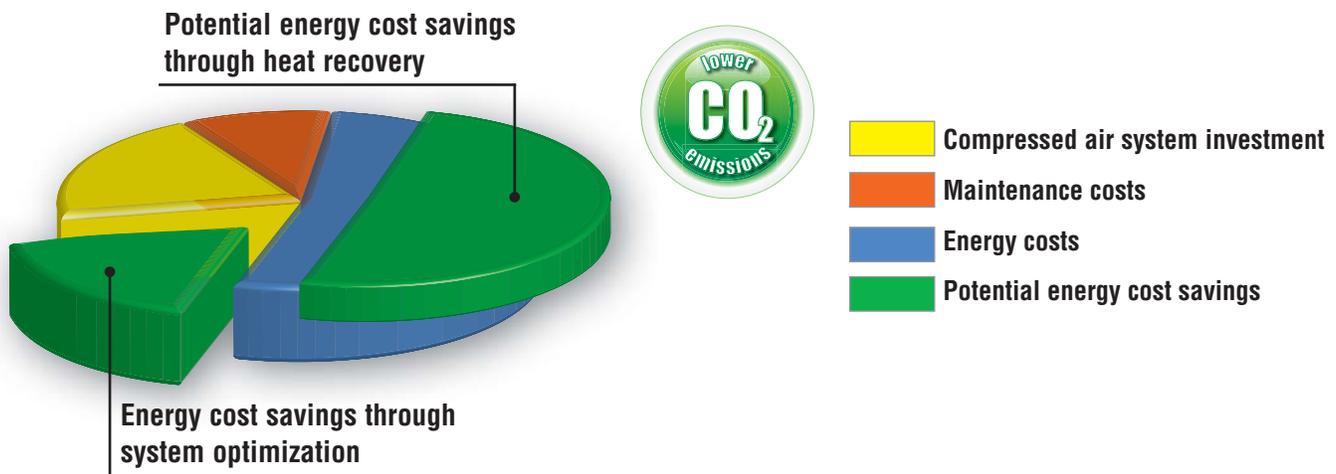
Kaeser's screw compressors meet our rigorous "built for a lifetime" standard. Designed and built with Kaeser's generations of compressed air experience, you can rest assured that these compressors will continue to deliver the air you need with the exceptional reliability you expect from a Kaeser compressor.

Service-friendly

From the ground up, these compressors have been designed with the user in mind. Fewer wearing parts and using premium quality materials ensure reduced maintenance requirements, longer service intervals, and extended service life. A smarter component layout with generously sized maintenance doors simplify service and lower your operating costs.

Kaeser efficiency

In our systems design approach, Kaeser chooses the components that work together in the most energy efficient way possible. Each and every component — from inlet filter to discharge flange — has been carefully selected with performance in mind. With Kaeser's superior system controls, we guarantee an efficient system with lower operating costs, however small or large your demand may be.



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** Single piece, multi-ribbed belt with automatic tensioner
- 4** Spin-on 10 micron fluid filter
- 5** Cartridge style 1 micron inlet filter*
- 6** Quick fluid change system with drain hose (hose not shown)

- 7** Side panel windows to view fluid level and test the auto drain (on T versions and AirCenters)

- 8** Cleanable filter mat on coolers (not shown)*

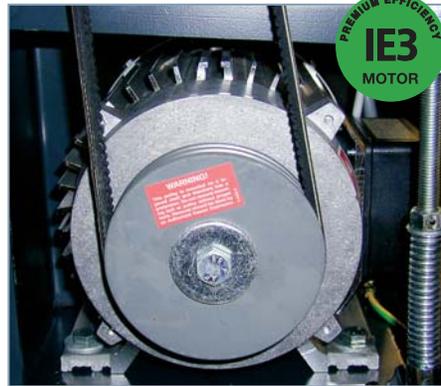
*no tools required

Designed for Reliability, Simplicity, and Performance



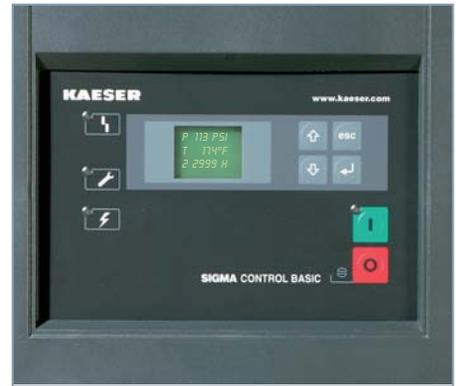
Sigma Profile Airend

Our power-saving, proprietary airend design delivers pressures up to 217 psig. Kaeser uses an airend specifically designed for the AS 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. Unlike the competition, Kaeser Compressors makes many different airends so we can apply them at the optimal speed and 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.



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.

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.



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.



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.





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.



Intelligent control and protection

To protect your investment and ensure the most efficient operation possible, these compressors are available with our Sigma Control 2™ as an option. This intelligent controller comes standard with multiple pre-programmed control profiles so you can select the one that best fits your application. Sigma Control 2 monitors more than 20 critical operating parameters, shuts the unit down to prevent damage, and signals if immediate service is required. It also tracks preventive maintenance intervals and provides notice when PMs are due. An RFID sensor provides secure access and simplifies managing maintenance intervals. A SD card slot with standard SD card enables fast, easy software updates, storing key operational parameters, and offers long-term data storage for analyzing energy consumption and compressor operation.

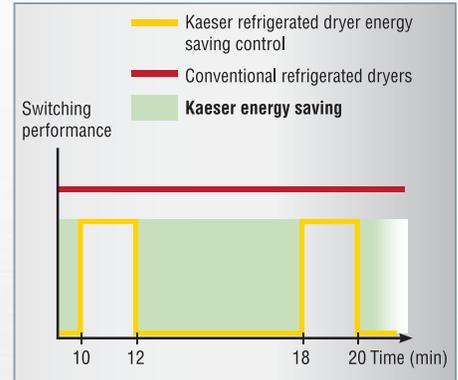
Sigma Control 2 has superior communications capabilities. An Ethernet port and built-in web-server enable remote viewing. ModBus, Profinet, Profibus, Devicenet, and other industrial communications interfaces are also available as plug in options for seamless integration into plant control/monitoring systems.

See our Sigma Control 2 brochure for more information.

T Models

Premium compressed air quality

The AS Series are available with an integrated refrigerated dryer. The dryer is located in a separate cabinet so it is not exposed to preheated air or contaminants from the compressor package.



Energy-saving control

The integrated refrigerated dryer in Kaeser units provides high efficiency performance thanks to its energy-saving control. The dryer is active only when compressed air actually needs to be dried: This approach achieves the required compressed air quality with maximum efficiency.



Stainless steel plate heat exchanger

The dryer's stainless steel plate heat exchanger is corrosion and contamination-resistant. Even with fluctuating airflow, the separate stainless steel condensate separator reliably removes the accumulating condensate from the air.



Refrigerated dryer with Eco-Drain

The refrigerated dryer also features a zero loss Eco-Drain. The advanced level-controlled condensate drain eliminates the compressed air losses associated with solenoid valve control. This saves energy and considerably enhances the reliability of the compressed air supply.

Complete Compressed Air Systems

Life Just Got Easier

Whether you prefer separate components or fully integrated packages, Kaeser offers everything for a complete, high-quality air system.

The AirCenter™

To simplify your compressed air system, Kaeser offers the AirCenter. This unit combines all the essential system components in one easy-to-install package. AirCenters come completely assembled and include a refrigerated dryer with automatic condensate drain, receiver tank, and an optional filtration package. These super quiet and energy-efficient units are compact and perfect for installations where space is limited.



Single compressor (Simplex) and dual compressor (Duplex) Systems

Model	Simplex		Duplex	
	Comp. hp	Capacity @ 125 psig* (cfm)	Comp. hp	Capacity @ 125 psig* (cfm)
AS 20 AirCenter	20	92	2 x 20	184
AS 25 AirCenter	25	111	2 x 25	222
AS 30 AirCenter	30	124	2 x 30	248

Specifications are subject to change without notice.

*Other pressures available.

Technical Specifications

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 47 ³ / ₄ 58 ¹ / ₄ x 30 ³ / ₄ x 49 ³ / ₈	860 1025	67
	160	77				
	217	59				
AS 25 AS 25T	125	111	25	44 ¹ / ₂ x 32 ⁵ / ₈ x 47 ³ / ₄ 58 ¹ / ₄ x 30 ³ / ₄ x 49 ³ / ₈	893 1058	69
	160	94				
	217	72				
AS 30 AS 30T	125	124	30	44 ¹ / ₂ x 32 ⁵ / ₈ x 47 ³ / ₄ 58 ¹ / ₄ x 30 ³ / ₄ x 49 ³ / ₈	926 1091	71
	160	104				
	217	83				

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

Note: Other pressures available from 80 to 217 psig.

Specifications are subject to change without notice.

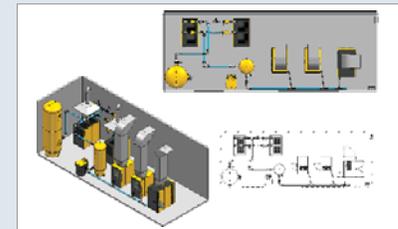
Compressed Air System Design

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 2D and 3D CAD 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.



CAGI Certified Performance

Our compressors' energy efficiency has been tested and confirmed by an independent laboratory as part of the Compressed Air and Gas Institute's Rotary Screw Compressor Performance Verification Program. CAGI data sheets for our screw compressor units can be found at

www.kaeser.com/cagi



KAESER COMPRESSORS

Built for a lifetime.™

www.kaeser.com

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Certified Management Systems

