

KAESER
COMPRESSORS®

Built for a lifetime.



Compressed Air Packages

AIRTOWER™ Series

From 3 to 7.5 hp

kaeser.com

100
1919 - 2019
TRADITION & INNOVATION

AIRTOWER™ Series

Industrial Quality for Your Shop

Kaeser's AIRTOWER™ is an affordable, yet rugged rotary screw compressor package for any light industrial application including woodworking, machine shops, metal fabrication, and all sorts of vehicle maintenance and repair. Available in 3, 4, 5, and 7.5 hp, AIRTOWERs deliver reliability, energy efficiency, and easy maintenance. The all-in-one package includes a rotary screw compressor, dryer, tank, and drain in a compact, space-saving design that arrives fully assembled and ready to run.

Rugged reliability

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

Service-friendly, all-in-one design

With a Kaeser AIRTOWER, everything you need for a complete compressed air system is built into a single package with a small footprint. The single-piece rotomolded cover easily removes for quick access to all maintenance items.

Superior air quality

Moisture, oil, and other contaminants ruin paint jobs, products, and cause unnecessary wear and tear on tools. That's why the AIRTOWER comes fully equipped with a tank and refrigerated dryer to deliver the quality air you need to run your shop.

Energy efficient

Our Sigma Profile™ airend delivers more air per kW input power. Combined with high efficiency motors, wye-delta starters, and receiver tanks, our design guarantees you won't waste energy.





Rotary Screw Compressor vs. Piston

Superior compressor technology

Though piston compressors are still the most common compressor type found in light industrial service shops, many users have found there are significant benefits to rotary screw technology.

A piston compressor may provide adequate flow for a short period, but most are air-cooled and have high operating temperatures with an allowable duty cycle of only 60-70%. For this reason, piston compressors are usually oversized and run at higher pressures to allow cool-down time to prevent heat damage. AIRTOWER rotary screw compressors are fluid

cooled, have much lower operating temperatures, and have a 100% allowable duty cycle. In addition, rotary compressors produce 20 - 40% more air per hp than shop piston units.

Unlike pistons, rotary screws have no rings to wear out. They have better long term efficiency and much lower oil carry-over into tools and products. Rotary compressors also generate much less heat, noise, and vibration than piston units. Place them in the best location without bothering employees or customers.



At a glance comparison

	AIRTOWER	Piston Compressors
Duty Cycle	100%	Limited
Oil Carry-over	1 - 3 ppm	10 ppm - no upper limit
Noise Levels	69 - 70 dB(A)	80+ dB(A)
Internal Operating Temperature	170°F - 200°F	300°F - 400°F
Discharge Temperature	17-30°F above ambient	100°F and higher above ambient

AIRTOWER™: A Complete Air System Solution

Controls

Our Sigma Control 2™ features push button controls and an LCD screen with operation status. It provides precise pressure control, maintenance reminders, and troubleshooting alerts.

Receiver Tank

An ASME certified pressure vessel with pressure gauge, safety relief valve, and automatic drain stores air and removes moisture. It is powder-coated inside and out to prevent rust.

Cover

Our rugged one-piece rotomolded shell lifts off for quick and easy access to all maintenance items.

Screw Compressor

Our industrial Sigma Profile™ compressor airend is built for 24/7 duty and will reduce your power bill. It runs cool, quiet, and trouble-free for years.

Electronic Demand Drain

The Eco-Drain automatically removes liquid contaminants without wasting valuable compressed air. Sight glass with “pop-out” feature provides access to the test button on the drain.

Dryer

A refrigerated dryer removes excess moisture to protect your tools and improve product quality. It operates independently, drying stored air even when the compressor is off.



AIRTOWER™ advantages

Kaeser's AIRTOWER is the solution for users needing an all-in-one solution for their light industrial applications. It's an affordable rotary screw package that's an excellent step up in air quality from a piston compressor and delivers better air quality, lower energy costs, and all with the rugged reliability of the Kaeser name.

The small footprint and the ultra low noise levels mean you can place the package almost anywhere in your shop. Plus, it arrives fully assembled, wired, and ready to run, saving you installation time and money.

Kaeser now uses the new climate friendly R-513A refrigerant, which has 56% lower global warming potential (GWP) than other common refrigerants.



Durable

- Rugged Sigma Profile™ airend
- Solid steel construction
- Runs cooler so it can run as much as needed without overheating
- TEFC motor has Class F insulation

Quiet

- Rotary screw design
- Double-walled, rotomolded polyethylene shell dampens noise
- Noise levels as low as 69 dB(A)

Better air quality

- Unit runs cool so it's easier to dry and filter
- Vertical receiver tank with automatic condensate drain removes bulk liquids
- Integral refrigerated dryer condenses and removes even more moisture and other contaminants
- Low oil carry-over (1-3 ppm)

Low vibration

- Smooth rotary action
- Double vibration insulation
- No need to fasten it to the floor

Energy efficient

- Better airend design delivers more air per kW input power
- High efficiency motor with wye-delta soft start
- Built-in receiver tank stores air to minimize run time
- Doesn't waste energy running at unneeded high pressure

Technical Specifications

Model	hp	Pressure Range	Capacity @ 125 psig (cfm)	Dimensions W x D x H (in.)	Weight (lbs.)	Noise Level (dB(A))	Power	
							Compressor ²	Dryer
AIRTOWER 3C ¹	3	80 - 160	12.0	24 3/8 x 38 5/8 x 58	628	69	208/230/460 V 3 phase 60 Hz	115 V 1 phase 60 Hz
AIRTOWER 4C ¹	4	80 - 217	15.9		628	70		
AIRTOWER 5C	5		21.2		639			
AIRTOWER 7.5C	7.5		28.3		661			

Standard pressures are 125, 160, and 217 psig, with minimum pressure band of 15 psi.

¹ Available as special order

² AIRTOWER 5C and 7.5C also available 208-230 V/1 phase/60 Hz

Specifications subject to change without notice.

Life just got easier



Small footprint

- Vertical tank saves precious floor space
- Designed for corner placement

Easy installation

- Comes completely assembled
- Easily handled with fork truck or pallet jack
- Simple electrical connections for compressor and dryer
- Only one compressed air connection
- No need to fasten it to floor

Easy maintenance

- Routine fluid and filter changes
- Lightweight, one-piece cover gives easy access for service

The world is our home

As one of the world's largest compressed air systems providers and compressor manufacturers, Kaeser Compressors is represented throughout the world by a comprehensive network of branches, subsidiary companies and factory trained partners.

With innovative products and services, Kaeser Compressors' experienced consultants and engineers help customers to enhance their competitive edge by working in close partnership to develop progressive system concepts that continuously push the boundaries of performance and compressed air efficiency. Every Kaeser customer benefits from the decades of knowledge and experience gained from hundreds of thousands of installations worldwide and over ten thousand formal compressed air system audits.

These advantages, coupled with Kaeser's worldwide service organization, ensure that our compressed air products and system deliver superior performance with maximum uptime.



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www.kaeser.com

Kaeser Compressors, Inc.
511 Sigma Drive
Fredericksburg, VA 22408 USA
Telephone: 540-898-5500
Toll Free: 800-777-7873
info.usa@kaeser.com

Kaeser Compressors Canada Inc.
3760 La Verendrye Street
Boisbriand, QC J7H 1R5 CANADA
Telephone: (450) 971-1414
Toll free: (800) 477-1416
info.canada@kaeser.com

**Kaeser Compresores de México
S de RL de CV**
Calle 2 #123
Parque Industrial Jurídica
76100 Querétaro, Qro.
Telephone: 01 (442) 218 64 48
sales.mexico@kaeser.com

**Kaeser Compresores de
Guatemala y Cia. Ltda.**
Calz. Atanasio Tzul 21-00, zona 12
El Cortijo II, Bodega 501
01012-Guatemala City
Telephone: +502 2412-6000
info.guatemala@kaeser.com

