

**KAESER**  
COMPRESSORS®

*Built for a lifetime.*



## At A Glance

*Compressed air, blower, and vacuum products*

[kaeser.com](http://kaeser.com)

# Built-for-a-lifetime™ Products

## Meeting all your air system needs

KAESER's complete line of air system products includes industrial electric and portable rotary screw compressors with the highly efficient SIGMA PROFILE<sup>®</sup>, rotary lobe and screw blowers, compressed air boosters, and vacuum packages. We also provide an unrivaled range of air treatment and other system components including tanks, piping, and controls. Our products are designed to work together to achieve maximum efficiency, reliability, and optimum performance. Add to that our expert system design, installation, and maintenance services and it's clear why KAESER is the Air Systems Specialist.

## Built for a lifetime

Everyone talks about reliability but no one else in the industry has KAESER's rigorous "built for a lifetime" philosophy. Our goal is to establish long term relationships with our customers and we don't compromise on quality for the sake of short term financial returns. This means you can rest assured that our air system products will continue to deliver the air you need year after year.

## Premium efficiency

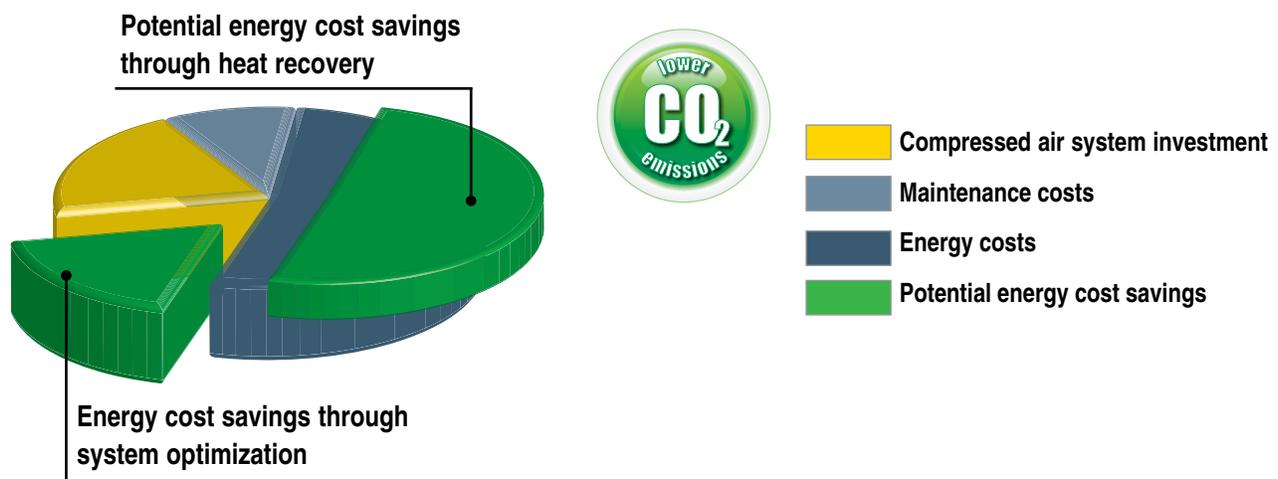
Energy costs are a significant portion of any air system's total cost. In fact, the annual energy bill to run a compressor can exceed its purchase price, and over many years energy accounts for 70% or more of the air system life cycle cost. KAESER's energy-saving equipment delivers significantly more air per kW, and our system designs have helped many customers save millions of dollars in energy every year.

## Customized solutions

Kaeser specializes in evaluating each customer's compressed air application and providing the most efficient and effective air system solution. While the need for stable pressure, good air quality, system reliability, and energy efficiency is nearly universal, we know that each application is unique. Our wide product range lets us tailor each air system solution to meet your specific challenges.

## Service friendly

From the ground up, KAESER products have been designed with service in mind. By using fewer wearing parts and quality materials we ensure reduced maintenance, longer service intervals, and extended service life. Features like our automatic belt tensioners, quick fluid drain system, "one side" maintenance, and full access cabinet designs simplify service and lower your operating costs.



# Compressor and vacuum products



## Industrial Screw Compressors

KAESER's rotary screw air compressors feature the proprietary SIGMA PROFILE<sup>®</sup> airend. Available from 3 to 700 hp with capacities from 9 to 3044 cfm, and pressures up to 217 psig. Sigma Frequency Control (SFC) units feature variable frequency drive (VFD) technology. "T" versions with integrated dryer also available on most models.



## Screw Compressor Packages

KAESER also offers the AIRCENTER and Airtower—complete compressed air packages that integrate our compressor with controller, dryer, tank, and drain into one compressed air system. These systems are ideal where floor space is limited.



## Oil-free Screw Compressors

KAESER's oil-free rotary screw compressors are available with capacities from 192 to 1774 cfm and pressures from 45 to 145 psig. SFC models are available for superior part load performance.

An integrated heat of compression dryer (i.HOC<sup>®</sup>) or an integrated refrigerated dryer ("T" versions) are also available on most models.



## Booster Compressors

These single-stage units increase air system pressure up to 650 psig. Units range in size from 3 to 60 hp with capacities to 882 cfm. N-series boosters are baseplate mounted and the NC-series is fully enclosed. Booster compressors are ideal for many applications where a moderate amount of high-pressure plant air is required.



## Rotary Screw Vacuum Packages

Available with capacities ranging from 166 to 551 acfm and 99% final vacuum, these units are equipped with TEFC motors from 10 to 40 hp. Switchable dual/modulation control and an externally mounted vacuum filter in the suction line are standard.



# Air treatment products and system components

## Refrigerated Air Dryers

KAESER has a variety of non-cycling and cycling dryers that efficiently remove moisture from your system to reduce equipment wear and improve productivity. Sizes range from 10 to 12,500 scfm.



## Desiccant Air Dryers

Available from 7 to 5400 scfm, these regenerative dryers produce pressure dew points as low as  $-94^{\circ}\text{F}$ . KAESER's heatless KAD and DC, heated purge KED and blower purge KBD complete KAESER's comprehensive desiccant dryer line.



## Compressed Air Filters

Designed with housings that have larger flow areas to ensure low pressure drop, these filters provide easy installation, operation, and maintenance. KAESER filters maintain high capture rates and filtration efficiencies across a wide range of flows, 20 to 11,875 scfm, and pressures up to 1000 psig.



## Drain Traps

KAESER's Automatic Magnetic Drain (AMD) and the award-winning Eco-Drain provide reliable liquid removal and reduce maintenance.



## Condensate Management

The KAESER Condensate Filter automatically removes lubricant from compressor condensate. This allows for easy and economical disposal of compressed air condensate in an environmentally responsible way. The low maintenance system requires no electricity for operation.



## Air Main Charging Valves

The Air Main Charging System automatically opens and closes to maintain a steady pressure in the air system and to control air velocity. This ensures effective drying and filtration, thereby increasing productivity and reducing maintenance.



## SmartPipe™ Distribution System

Fast to install and easy to modify, KAESER's complete SmartPipe™ line is the most versatile compressed air distribution system available. Lightweight materials and push-to-fit connectors reduce installation time and fatigue, even in overhead installations. Leak free performance with low pressure drop. Available in eleven sizes from 3/4" to 10". From small shops to large industrial facilities, SmartPipe is great for a wide range of installation needs.



## SIGMA CONTROL® 2

SIGMA CONTROL® 2 is an onboard controller that ensures efficient control and compressor condition monitoring. The large display and multiple, selectable interfaces enable seamless networking capability for remote monitoring.



## SIGMA AIR MANAGER® 4.0

SIGMA AIR MANAGER® 4.0 combines the benefits of modern industrial PC technology with Internet technology to provide unparalleled compressor control, monitoring, and energy savings. Integrated KAESER Connect software provides enhanced reporting and enables end users to monitor air system operation from any location.



## Custom Engineered Solutions

KAESER's Custom Engineered Solutions are compressed air, vacuum, and blower systems built to specification for the most demanding and challenging installations. These complete systems are designed for exceptional reliability, simple maintenance, and superior energy efficiency no matter what the installation limitations may be. They eliminate space, weather, and accessibility constraints and can significantly reduce construction, installation, and operating costs.



## SIGMA AIR UTILITY®

SIGMA AIR UTILITY® (SAU) is compressed air as a service. We design, build, own, operate, maintain, and stand behind your compressed air system. We can guarantee the amount of air you need, at the pressure you need, and at the quality you need. On top of that, it will be the most energy efficient air system you've ever had.



# Blower products



## Industrial Blowers

KAESER lobe, screw, and turbo blowers offer a wide range of options for industrial and process applications including fluid and wastewater aeration, pneumatic conveying, air knives, and vacuum, just to name a few. All are designed and built in keeping with KAESER's traditions of low noise, energy efficiency, and long term reliability.

## Bare Blowers

OMEGA<sup>®</sup> positive displacement blowers offer flows to 5500 cfm, pressures to 15 psig and vacuum to 27" Hg. Our rigid quality control and testing ensure optimum performance and reliability. Available in gas tight and vacuum models, and with chromium-nickel alloy for distillation and steam applications.



## Complete Blower Packages

KAESER's Omega tri-lobe blower packages are renowned for their superior reliability and efficiency. Open packages include premium efficiency TEFC motor, drive and silencers. Also available fully integrated with sound enclosure, SIGMA CONTROL 2, and choice of soft-start fixed speed or variable speed control. Service points are in front and utility connections are in the back, so units can be placed side-by-side to reduce footprint. Flows from 28 to 5500 cfm.



## Screw Blower Packages

KAESER's screw blower packages combine the energy efficiency savings of the SIGMA PROFILE rotary screw airend with the convenience of a complete blower package. The screw blower packages include premium efficiency TEFC motors, silencers, starters/drive, a full enclosure, and a full complement of sensors. Options include STC (wye-delta start) or SFC (variable frequency drive). Flows from 190 - 5650 cfm.



## Turbo Blower

With flows to 10,000 cfm, the Pillaerator<sup>®</sup> turbo blower is ideal for large aeration and other process applications needing high efficiency, oil-free air. Features a liquid cooled dynamic magnetic bearing design that is friction, vibration, and maintenance-free.



# Portable compressors

## MOBILAIR®

Available from 50 to 1600 cfm, our rugged MOBILAIR® units are built for heavy duty civil and commercial construction, demolition, and industrial back up.



M500-2 portable oil-free delivers 1600 cfm.

# The Air Systems Specialist

KAESER COMPRESSORS is more than just a maker of high quality compressed air system products. KAESER and its network of factory certified distributors offer complete air system design, analysis, installation, and other consulting services.

We consistently help our customers improve productivity through reduced downtime and better air quality. Reduce life cycle costs with longevity, lower PM/repair costs, and superior energy efficiency.



## 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](http://www.kaeser.com/cagi)



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