

**KAESER  
COMPRESSORS**

*Built for a lifetime.™*



# At A Glance

*Products for a complete air system*

**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 gasoline and diesel rotary screw compressors with the highly efficient Sigma Profile™, 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 is 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

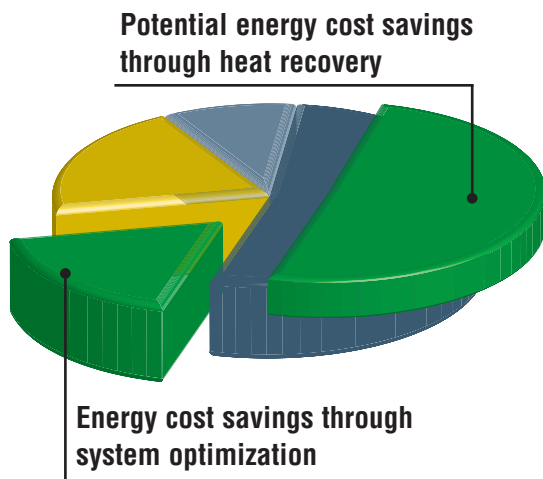
Energy costs are a significant portion of any air system's total cost. In fact, the annual energy bill to run a compressor can exceed its purchase price, and over many years energy accounts for 70% or more of air system life cycle cost. Kaeser's energy-saving equipment delivers significantly more air 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.



- Compressed air system investment
- Maintenance costs
- Energy costs
- Potential energy cost savings

# Compressor and vacuum products



## Industrial Screw Compressors

Kaeser's rotary screw air compressors feature the proprietary Sigma Profile™ airend. Available from 3 to 700 hp with capacities from 9 to 3142 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.



## Rotary Screw Vacuum Packages

Available with capacities ranging from 168 to 555 acfm and 99% final vacuum, these units are equipped with TEFC motors from 10 hp to 40 hp. Switchable dual/modulation control and an externally mounted vacuum filter in the suction line are standard.



## 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 725 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.



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

# Air treatment products and system components

## Refrigerated Air Dryers

Units offered for capacities from 10 to 12,500 scfm. Non-cycling, cycling, and Dual Control dryers provide maximum efficiency by offering the best drying solution for a wide array of applications.



## Desiccant Air Dryers

Available from 7 to 5400 scfm, these regenerative dryers produce pressure dew points as low as -100°F. Kaeser's heatless KAD, heated purge KED dryers, blower purge KBD dryers, and Breathing Air Systems complete Kaeser's comprehensive desiccant dryer line.



## Hybritec Dryer

Hybritec dryers combine refrigerated dryers with desiccant dryers for optimum energy savings potential. They are ideally-suited for large volume applications where the required dew points vary seasonally.



## 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 21,250 scfm, and pressures up to 1000 psig.



## Drain Traps

Kaeser's Automatic Drains like the Automatic Magnetic Drain (AMD) (shown, left) and the award-winning Eco-Drain (shown, right) provide reliability and reduce maintenance. Timed Electric Traps and Automatic Drain Traps complete our condensate drain product line.



## 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.





## Flow Controls

The Kaeser Flow Controller (KFC) ensures stable system pressure and reduces artificial demand and leakage losses. Unlike regulators, the KFC has a low internal pressure drop and accurately maintains downstream pressure. The Air Main Charging Valve and System prevent excessive velocity by automatically opening and closing to maintain a safe pressure in the supply side of the air system and minimize the exposure time of air treatment to high velocity air, thereby extending service life.



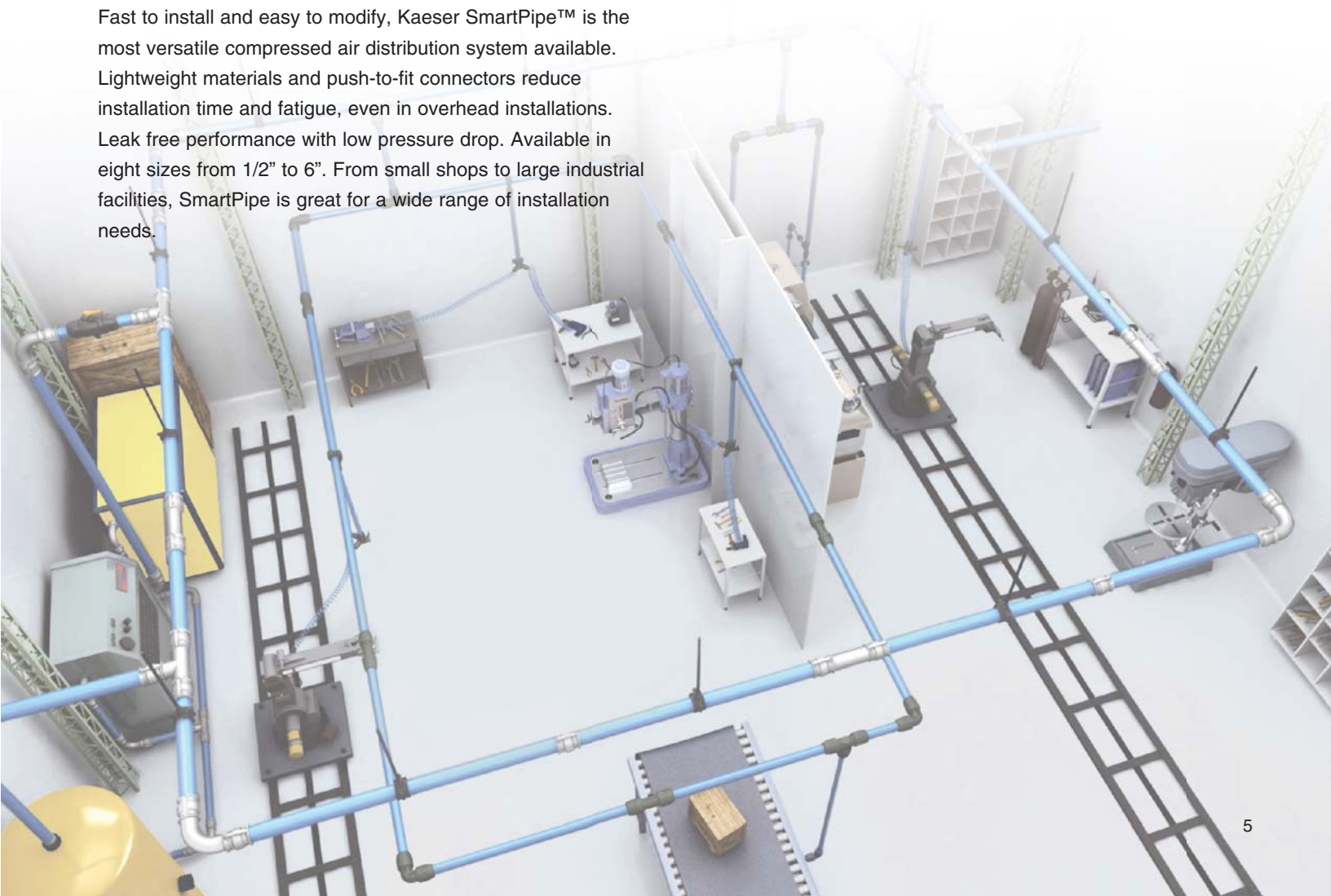
## Sigma Air Manager

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.



## Compressed Air Distribution System

Fast to install and easy to modify, Kaeser SmartPipe™ 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 eight sizes from 1/2" to 6". From small shops to large industrial facilities, SmartPipe is great for a wide range of installation needs.



# Blower products

## Bare Blowers



Omega positive displacement blowers offer flows to 5500 cfm, pressures to 15 psig and vacuum to 27" Hg. Heavy duty construction provides longer service life and quiet operation.



## Complete Blower Packages

Kaeser's Com-paK series is a blower package complete with premium efficiency TEFC motor, silencers, and integrated controls. The package arrives assembled and ready to operate. All service points are in front and utility connections are in the back, so units can be placed side-by-side to reduce footprint. The tri-lobe blower profile and fully insulated enclosure dramatically reduce pulsation and noise. Most units are available with Sigma Control 2™ and a suite of sensors for unit protection, as well as remote monitoring and control.

## 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 the same design features as the Com-paK blowers including premium efficiency TEFC motors, silencers, starters/drive, a full enclosure, and a full complement of sensors. Sigma Control 2™ with blower control software is standard. Options include STC (wye-delta start) and SFC (variable frequency drive).





# Portable compressors

## Mobilair™

Available in a wide range of models from 50 to 1200 cfm at 100 psig, these units feature the power-saving Sigma Profile aircend, heavy-duty industrial engines, and low noise enclosures.



# The Air Systems Specialist

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.

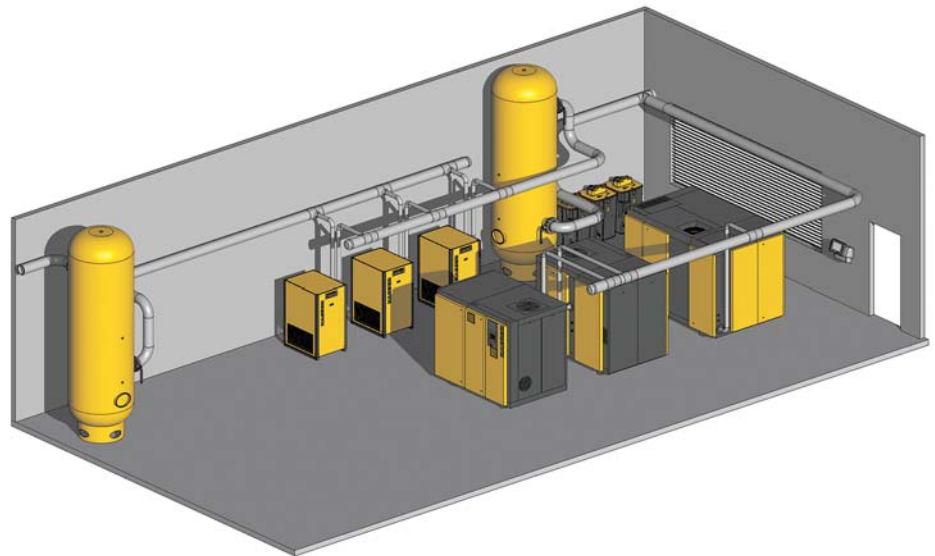
Kaeser can also produce 2D and 3D CAD drawings of the proposed system. This is a huge benefit in project planning. It helps visualize new equipment and how it will fit into the building along with existing equipment, piping, walls, vents, etc. This facilitates installation planning. From complex installations to challenging environments to limited space, Kaeser can design a system to meet your specific requirements for performance and reliability.

If complete system packaging is a requirement, we can provide a custom weather-proof enclosure or open skid assembly which allows for "plug-n-play" operation.

Kaeser Compressors is more than just a maker of high quality compressed air system products. Kaeser and its network of value-adding distributors offer complete air system design, analysis, and other consulting services.

Understanding your specific compressed air needs is essential to an efficient system. The Kaeser team provides comprehensive solutions to complex compressed air systems with innovative services including:

- Air demand analysis
- Energy consumption measurement
- Air flow measurement
- Leak detection
- Compressor fluid analysis
- Air system design
- Factory-trained sales and service representatives



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