

ROGERS®

Rotary Screw Air Compressors



K/KV Series

Fixed Speed or Variable Speed ■ Lubricant-Injected ■ Single-stage
40 - 400 HP ■ Air or Water-Cooled ■ 40 - 210 PSIG



ROGERS® K/KV Series

Inside the K/KV Series



ROGERS® delivers an ecologically friendly and energy efficient compressor design.

Lubricant Filter

Spin-on, full-flow, 12 μ , high efficiency element(s).

Inlet Control Valve

Rugged design for reliable capacity control.

Oversized Heat Exchangers, Moisture Separator and Auto Drain

Cools lubricant and compressed air while removing up to 80% of moisture from airstream. Horizontal (shown) and vertical discharge, as well as, remote located coolers are available options.

Inlet Filter/Silencer

Low pressure drop element.

Compressor Control

Status indicators with easy-to-read interface including patented Percent Capacity display.* MODBUS remote communication is standard.



Air/Lubricant Separator

High efficiency, reliable, multi-stage separation.

Starter Panel

K - X-Line, Wye-delta and solid state starter options.
KV - Variable speed drive standard.

Air End

Designed and built for high performance and longevity.

Motor

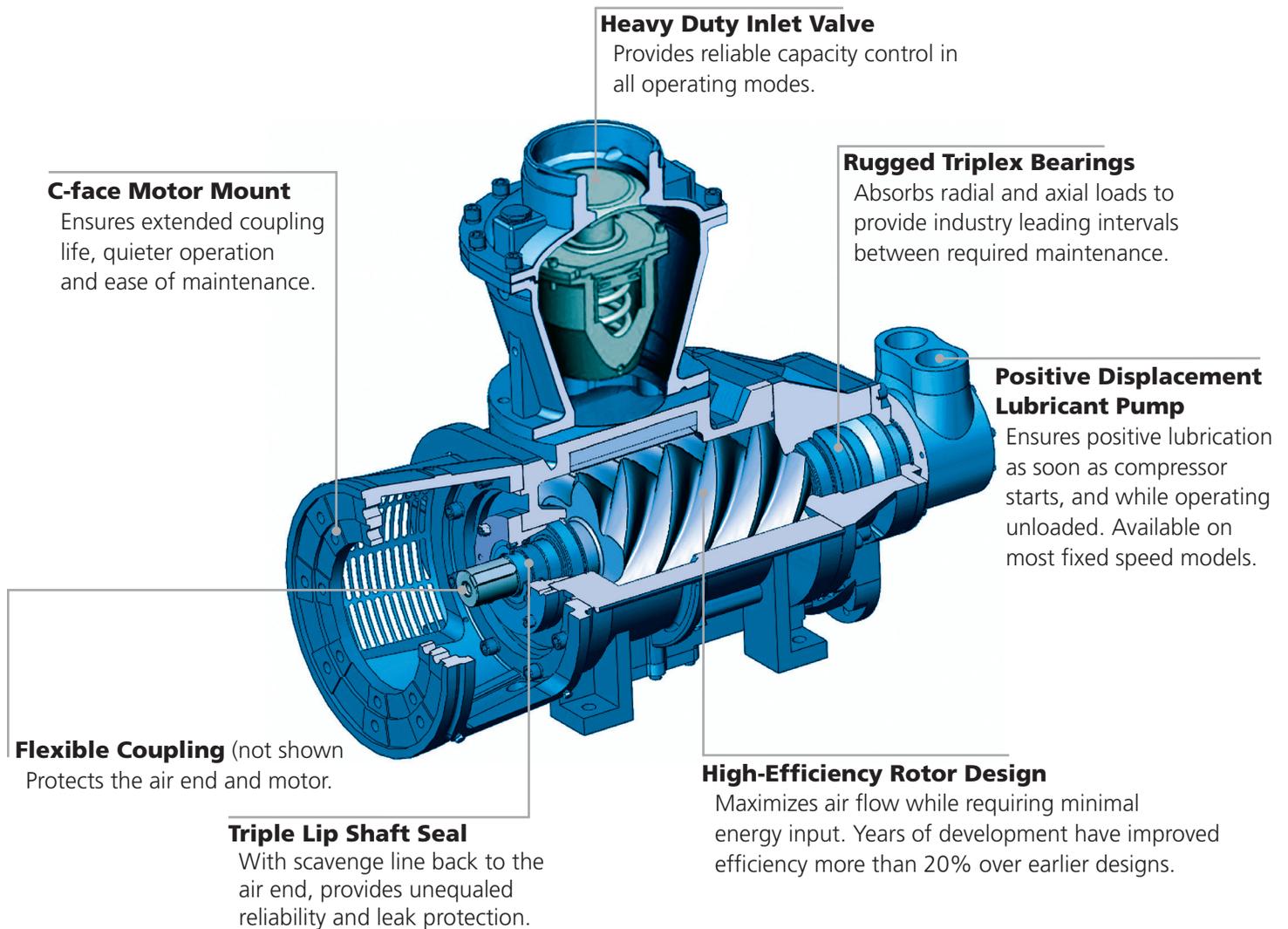
Standard, high efficiency, C-Flange, ODP, NEMA frame motors. TEFC motor available for fixed speed.

Rogers model K-100-100 shown with optional controls.

* U.S. Patent No. 3,747,404

ROGERS® K/KV Series Air End

The Heart of the Compressor's Reliability and Performance



The Assembly Offers...

Triplex Bearings

Superior three-bearing arrangement consistently outlasts competitive designs.

Shaft Seal

The K/KV Series triple-lip shaft seal is more reliable and longer lasting than a mechanical seal.

ROGERS® CLS-46 Lubricant

Specifically formulated for Rogers rotary screw air compressors. CLS-46 assures long air end life and fewer lubricant changes.

Energy Efficient

The 5:6 rotor profile, lubricant injection and discharge porting is designed for optimal performance, with high volumetric efficiency. Also, the lowest unloaded power consumption in the industry. Fully unloading to within 15-18% of full load power.

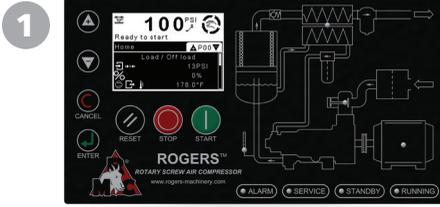
Slow Speed Rotors

Direct driven, non-g geared design. The male rotor runs at motor speed maximizing efficiency and longevity while reducing noise levels.

Warranty

Our standard 5 year air end and motor warranty is the best combined warranty in the industry.

ROGERS® K/KV Series Components



Compressor Control

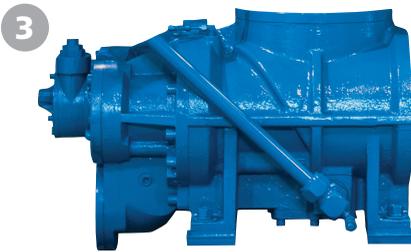
Optimum performance with efficient pressure and flow control. The microprocessor control monitors, regulates, protects and communicates. Machine status, service and

repair conditions are communicated through lights and text display. Our standard controller features Ethernet monitoring, MODBUS communication for remote control and onboard sequencing for multiple compressors. Optional PLC controls available with a high resolution touch screen panel.



Air/Lubricant Separator

This five stage system produces less than 2 PPM (w) lubricant carryover. Complete with sight glasses for lubricant level and scavenging lines. Standard operation allows for unloading to 0 PSIG sump pressure for minimum unloaded power consumption. Two nested separator elements provide maximum oil reduction at all operating speeds.



Air End

Direct drive design increases efficiency and longevity. The 5:6 rotor profile design eliminates air flow losses while the housing optimizes lubricant injection and discharge porting to maximize volumetric efficiency. Our C-face motor mounting is standard throughout the product range.



Rogers Machinery Co., Inc.

The Company

From our founding in 1949, Rogers Machinery has designed, built and serviced compressed air systems and other plant utility equipment. Rogers operates manufacturing facilities in Portland, Oregon and Centralia, Washington and provides 24/7 availability of Sales, Parts and Service personnel to best support our customers in the field. We maintain an extensive inventory of parts for service and repair. We stand by our equipment with a commitment to excellence that is respected throughout the industry.

Innovation

The Rogers K/KV Series compressors represent a compilation of features designed to provide "best in class" performance. Features such as advanced inlet filtration, low pressure loss inlet



ERIES

...The Right Choice

valves, efficient 5:6 rotor profiles, low lubricant carry-over separation, high capacity coolers and highly effective moisture removal all add up to give you the most effective compressor you can install today.

Systems

The K/KV Series open design allows for easy access to monitor, maintain and repair the assembly. Periodic maintenance such as filter and lubricant changes are made easy. Energy saving, high reliability and low total cost of ownership are fundamental design features of the machines. Our representative will help you select the right compressed air treatment and storage equipment with a systems approach that ensures you have the correct air quality, pressure and air flow to your plant.

Inlet Control Valve

The large cast housing operates smoothly and reliably for efficient air flow within a narrow pressure band and operates in multiple control modes. Inlet valve doubles as a check valve preventing oil loss and backspin at shutdown or power loss.



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Inlet Filter/Silencer

The first stage of air treatment designed to protect lubricant, compressor and system. The dry-type element and housing are selected for minimum pressure drop and maximum dirt carrying capacity. All models include a tube connection with rain hood to allow remote inlet air supply ducting in harsh environments.



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Variable Speed Drive

The KV Series includes a heavy duty control designed to match demand with flow. It is a blend of a robust power platform and a state-of-the-art control scheme. The drive provides a soft start and the ability to operate efficiently through the compressor's capacity range by matching flow to demand, while maintaining a high level of pressure control.



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Variable Speed Drive Cooling Fan (Optional)

The control loop for our VSD cooling fan manages heat rejection while saving significant power and reducing fan noise. Your utility may have incentives for this option.

K/KV Series Use in Industry

A Few Industries Where Our Compressors Operate

Our high performance, durable compressed air systems are used extensively in many industries. Operating consistently and reliably in demanding conditions, they help keep your plants running efficiently, 24/7.

Wood Products

Lumber and plywood mills, flooring and millwork facilities, window and door manufacturers, all depend on Rogers compressors in their plants.

Metals

Smelters, foundries, forges, pipe plants, rebar manufacturers and machine shops use Rogers compressors in their operations. Over-sized heat exchangers and water-cooled trim coolers are options Rogers offers that are widely used in the metals industry.

Wastewater and Water Treatment

Water and wastewater treatment plants use Rogers compressors in pumping, valve positioning, mixing and aeration applications. They are also used with air jets in critical screen blasts, cleaning and maintenance operations.

Glass and Plastics

Rogers compressors can be relied upon in the automation of glass and plastic forming, blowing and finishing. Throughout the manufacturing process they provide consistent, uniform force in applications such as blow molding, presses, sandblasting, etching, cooling and vacuum lifting for sheet handling.

Beverages

Sparkling beverage bottlers, brewers, vintners, distillers, juice, tea and other beverage producers depend on Rogers compressors. Applications include capping bottles, cans and kegs, automated bottle and keg washing machine setups, and vintners' pneumatic bladders for juice presses, filters, screens and climate controls for storage spaces.*

Food Processing and Packaging

Rogers compressors can be relied upon to provide air system solutions that are crucial in the safety and efficiency of processes across the food industry. Applications include the standard practice of transferring liquids and granular material from trucks and rail cars through pneumatic systems; cleaning, spraying, pressing dough, and flour handling in bakeries; operating can-filling machines, cooking and sterilizing in canneries; and stuffing, testing packaging, pumping water and operating presses, and cutting machines in food manufacturing.*



* USDA approved food grade lubricants available for use in F1 applications.

Commitment to Service and Support

Unequaled Commitment to Customer Service

Sales

To ensure your satisfaction, our experienced and professional sales staff make recommendations based on your needs, requirements and specifications.

Engineering

Our compressors are designed for all industrial users, large or small. They are customized to suit unique application needs.

Assembly and Testing

Our compressors are assembled and tested by expert technicians in our Centralia, Washington facility. They work directly with the engineering and sales personnel involved with your order, an important factor in delivering quality assemblies within the time frame you specify. All assemblies receive flow and power tests to confirm they meet performance specifications. Our quality assurance inspectors check each assembly before shipment to ensure the equipment meets your requirements.

Start-up Services

After your compressor has been installed, work with your local branch or distributor to have a factory field service technician visit your plant to:

- Inspect installation
- Perform start-up of compressor
- Ensure proper operation
- Train your personnel in operations and maintenance
- Review factory service program

Planned Maintenance and Repair

ROGERS® commitment to continuous training, investment in personnel and tools keeps your compressed air and vacuum systems running at optimal performance.

Mobile Service Application

The ROGERS® Remote Service Application (RSA) allows ROGERS® technicians access to service history, operating hours and factory engineering data 24/7 from a mobile tablet. This tool also simplifies service work order documentation by allowing it to be completed at customer site and right away.





**ROGERS
MACHINERY
COMPANY, INC.**

Since 1949

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ROGERS® K Series family of compressors and vacuum pumps