

ROGERS®

Rotary Screw Air Compressors



K Series

Fixed Speed ■ Lubricant-Injected ■ Single-stage ■ 40 - 350 HP
Air or Water-Cooled ■ 40 - 210 PSIG

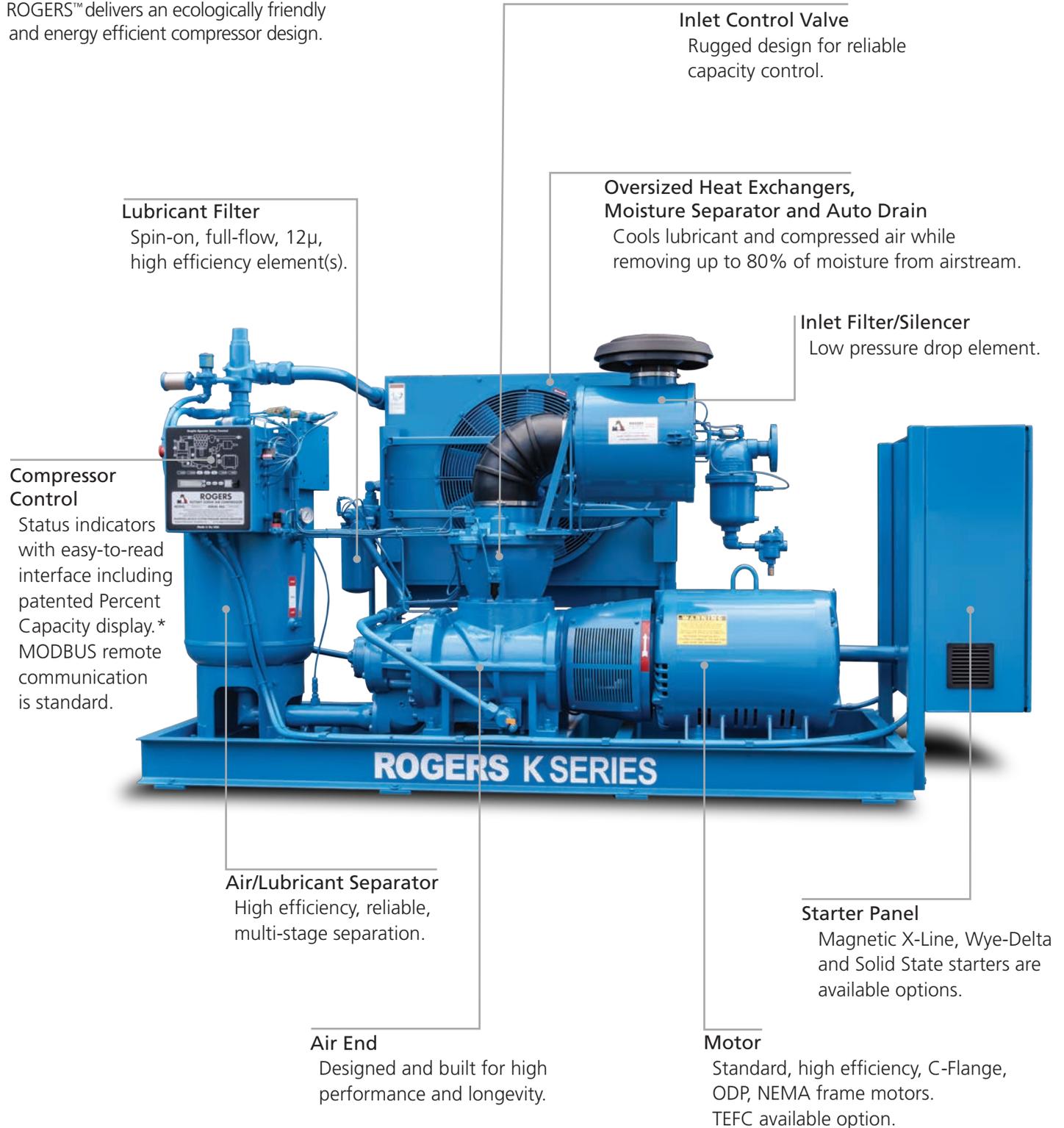


ROGERS® K Series

Inside the K Series



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



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.

Inlet Filter/Silencer
Low pressure drop element.

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

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.

Air End
Designed and built for high performance and longevity.

Starter Panel
Magnetic X-Line, Wye-Delta and Solid State starters are available options.

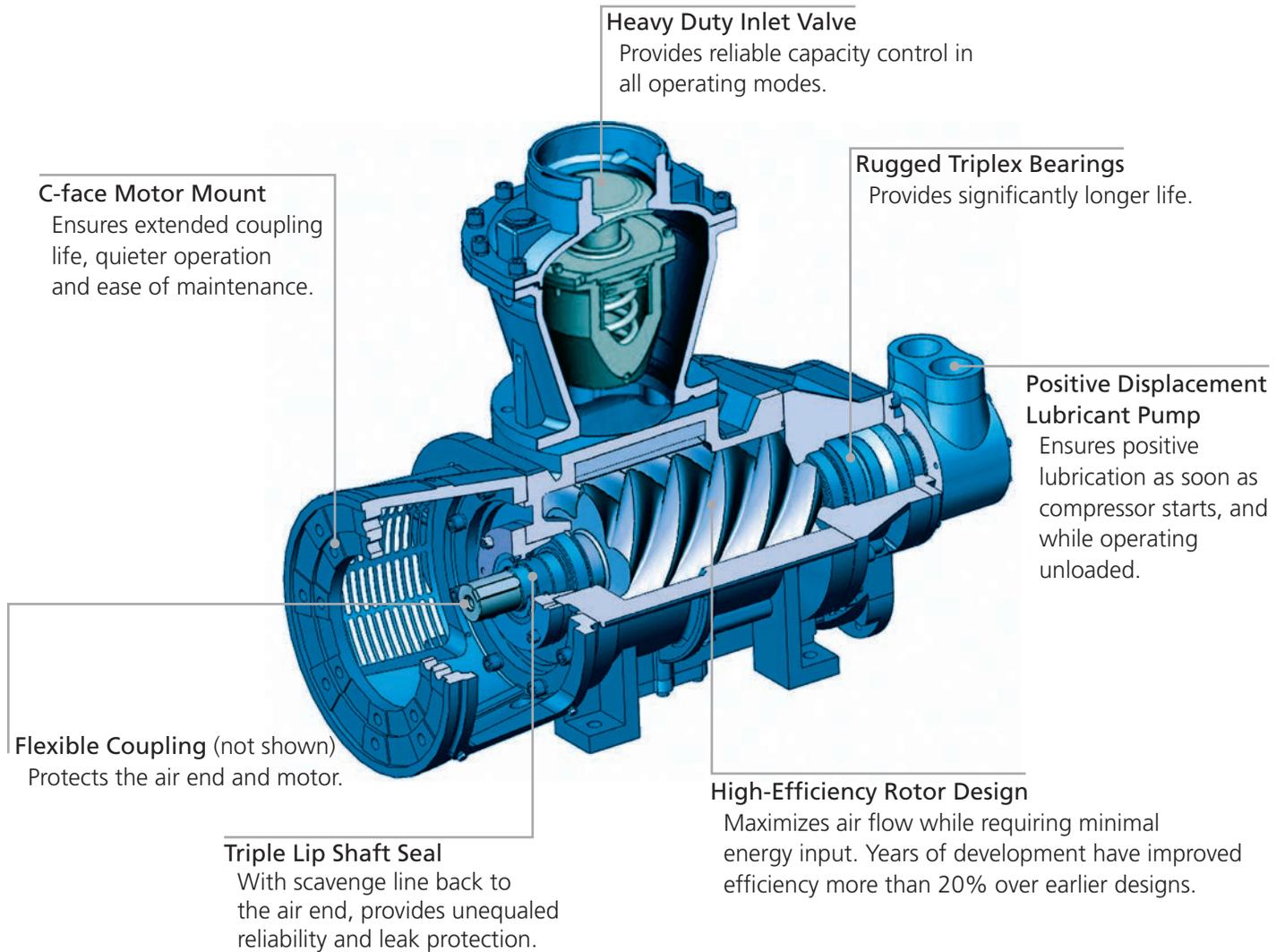
Motor
Standard, high efficiency, C-Flange, ODP, NEMA frame motors. TEFC available option.

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

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

ROGERS® K Series Air End

The Heart of the Compressor's Reliability and Performance



The Assembly Offers...

Triplex Bearings

Rated at 130,000 hours of operation (B-10 bearing life) with a superior three-bearing arrangement which consistently outlasts competitive designs.

Shaft Seal

The K 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.



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.



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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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...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 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.

Heat Exchangers, Moisture Separator and Auto Drain

Oversized air and lubricant radiators with automatic temperature control manage heat load with minimal loss of air pressure. The centrifugal separator and reliable auto drain remove moisture and make downstream treatment by filters and dryers more effective. Additional condensate management solutions are available.



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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 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, sales and application personnel involved with your order, an important factor in delivering quality assemblies within the time frame you specify. 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, our field service technicians will 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 Tablets

Our technicians utilize wireless connected MILSPEC, extreme-duty, pen-enabled tablet technology. Our Remote Service Application (RSA) manages machine maintenance, troubleshooting, and repair. These systems operate 24/7. Machine service history, operating hours, and work order documentation are all simplified with this powerful mobile tool.



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KV Series

Variable Speed ■ Lubricant-Injected ■ Single-stage ■ 40 - 350 HP
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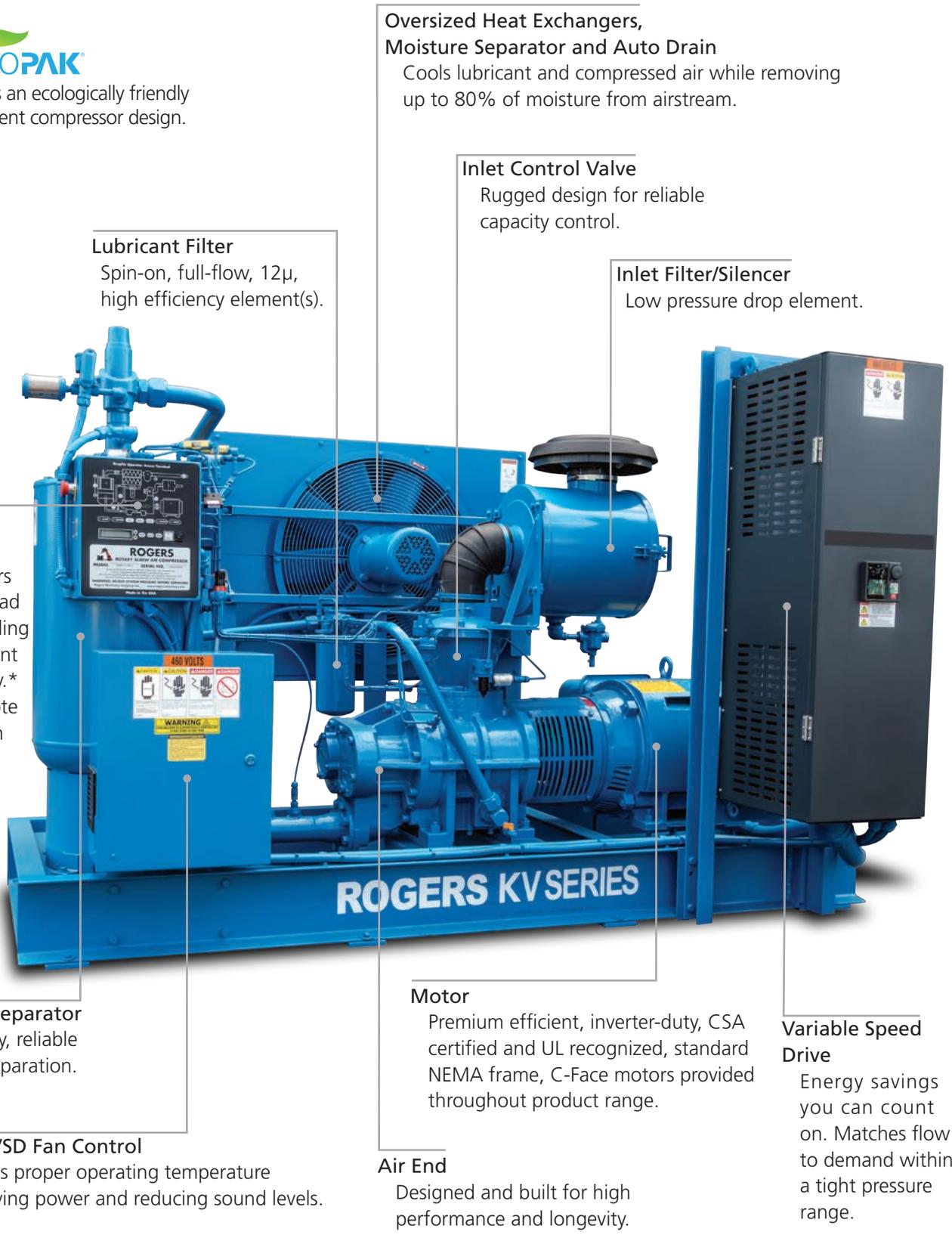


ROGERS® KV Series

Inside the KV Series



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



Oversized Heat Exchangers, Moisture Separator and Auto Drain
Cools lubricant and compressed air while removing up to 80% of moisture from airstream.

Inlet Control Valve
Rugged design for reliable capacity control.

Inlet Filter/Silencer
Low pressure drop element.

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

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.

Optional VSD Fan Control
Maintains proper operating temperature while saving power and reducing sound levels.

Motor
Premium efficient, inverter-duty, CSA certified and UL recognized, standard NEMA frame, C-Face motors provided throughout product range.

Air End
Designed and built for high performance and longevity.

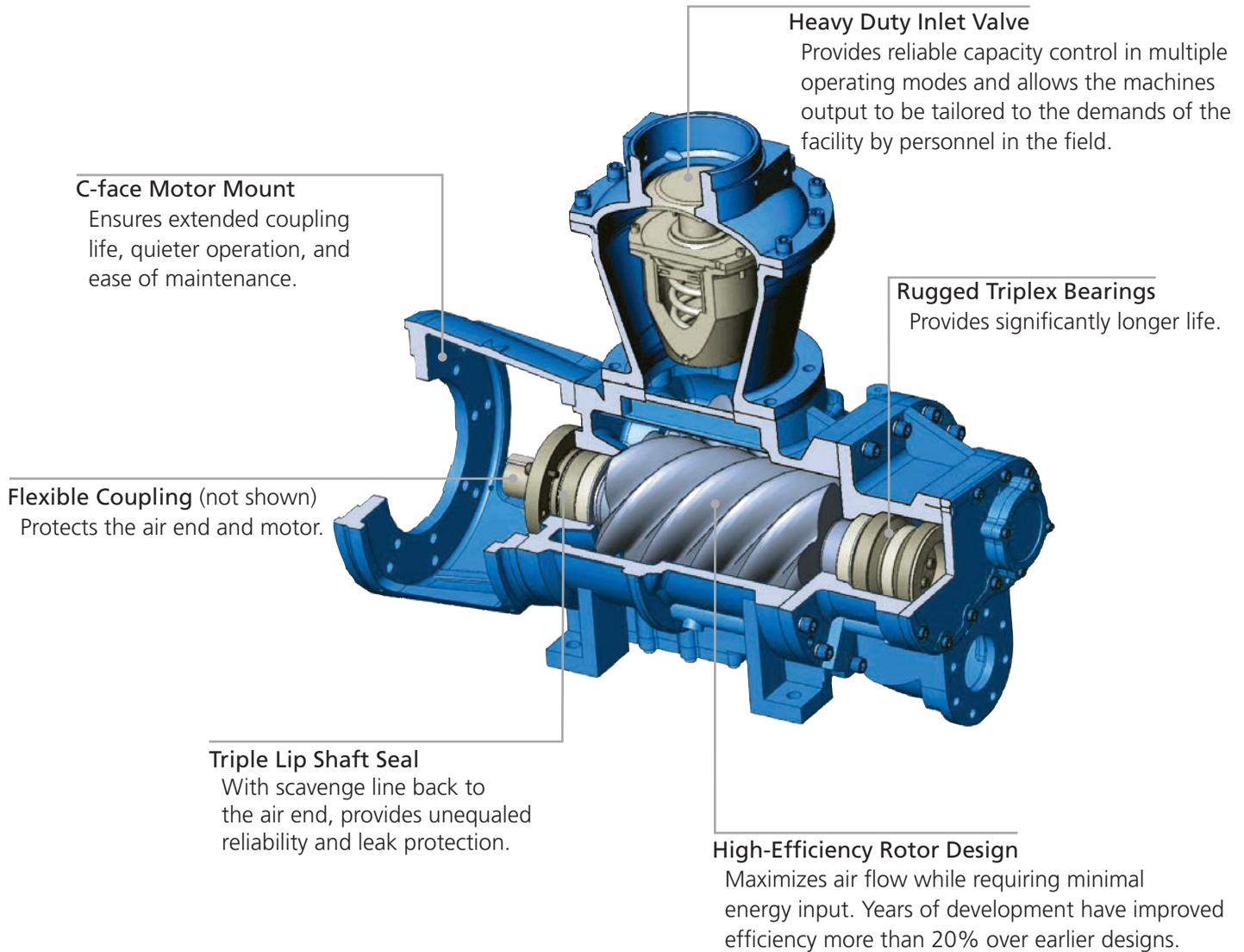
Variable Speed Drive
Energy savings you can count on. Matches flow to demand within a tight pressure range.

Rogers model KV-100-100 shown with VSD fan control option.

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

ROGERS® KV Series Air End

The Heart of the Compressor's Reliability and Performance



The Assembly Offers...

Triplex Bearings

Rated at 130,000 hours of operation (B-10 bearing life) with a superior three-bearing arrangement which consistently outlasts competitive designs.

Shaft Seal

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

ROGERS™ CLS-46 Lubricant

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Energy Efficient

The 5:6 rotor profile, lubricant injection and discharge porting is designed for optimal performance, with high volumetric efficiency.

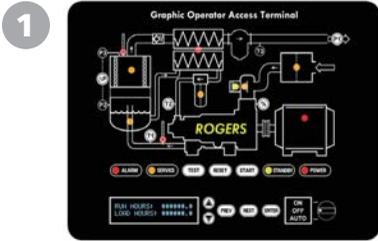
Slow Speed Rotors

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® 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 MODBUS for remote control and monitoring. 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 line.



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.



Inlet Control Valve

The large cast housing operates smoothly and reliably for efficient air flow within a narrow pressure band.



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 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



Variable Speed Drive

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 maintaining a high level of pressure control, (optional line reactor available.)



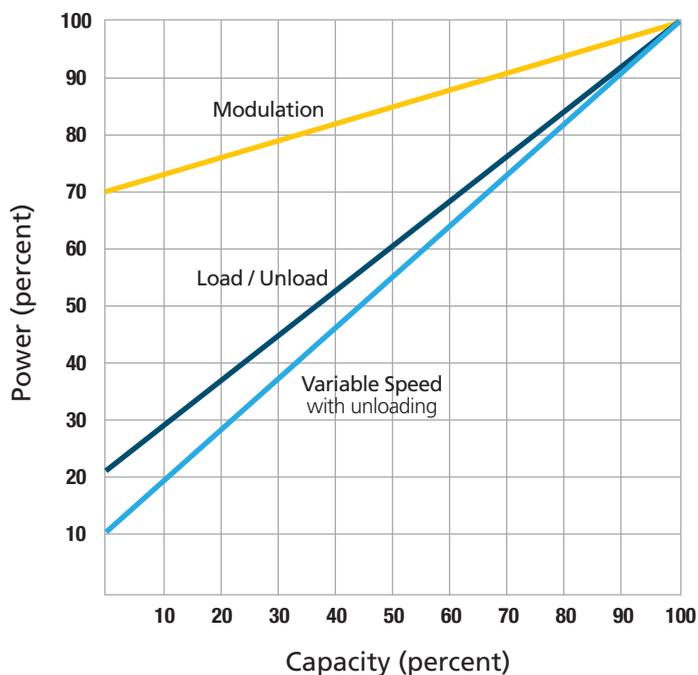
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valves, efficient 5:6 rotor profiles, low lubricant carry-over separation, high capacity coolers and highly effective moisture removal all add up to give you the most effective compressor you can install today.

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Typical Energy Savings with Variable Speed Control



Compressed air systems are dynamic in nature. By controlling compressor output to match system demand, substantial energy savings can be achieved.

KV Series Use in Industry



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