

ROGERS™

Rotary Screw Air Compressors



KR/KRV Series

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



ROGERS™ KR / KRV Series

Inside the KR / KRV Series



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

Sound Enclosure

Where quiet operation is required, heavy duty powder coated steel construction.

Inlet Control Valve

Rugged design for reliable capacity control.

Inlet Filter/Silencer

Low pressure drop element.

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

Lubricant Filter

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

Compressor

Control (not shown)
Status indicators with easy-to-read interface including patented Percent Capacity display.* MODBUS remote communication is standard.

Starter Panel

(not shown)
Magnetic X-Line, Wye-Delta, Solid State and variable speed drive options available.

Fan

Low sound squirrel cage fan(s) with TEFC motors.

Motor

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

Air End

Designed and built for high performance and longevity.

Air/Lubricant Separator

High efficiency, reliable, multi-stage separation.

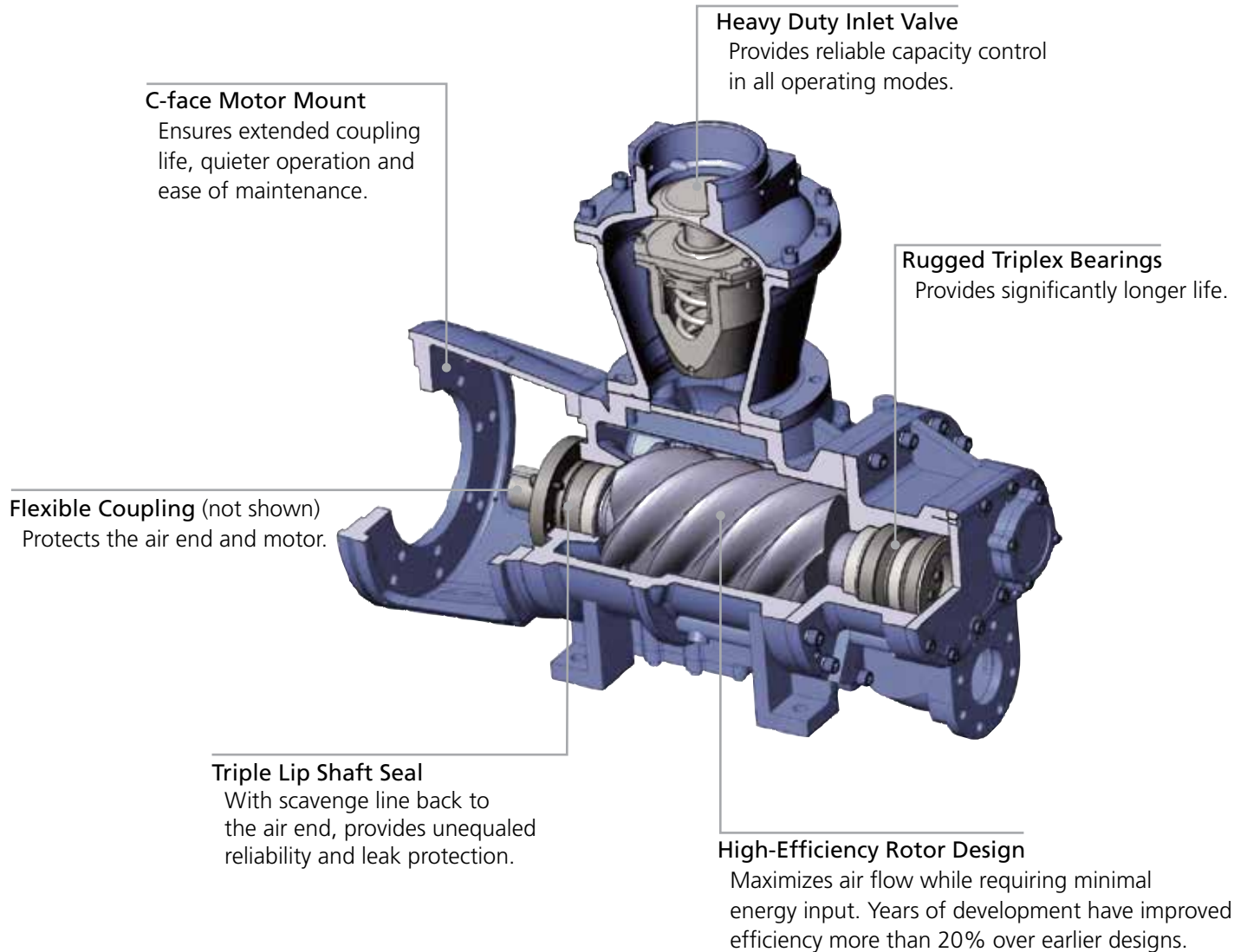


Rogers model KRV-125-100 shown.

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

ROGERS™ KR / KRV 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 KR / KRV 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.

Slow Speed Rotors

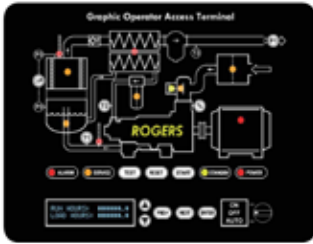
Direct driven, non-g geared design. The male rotor runs at motor speed maximizing efficiency and longevity while reducing noise levels.

Warranty

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

ROGERS™ KR / KRV Series Components

1



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.

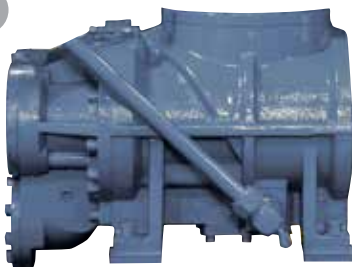
2



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.

3



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



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 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.



...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 KR / KRV Series generous enclosing cabinet design, easily opened and removeable hinged doors make 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.

Variable Speed Drive

The KRV 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.



Variable Speed Drive Cooling Fan (Standard) 150hp or Larger

The control loop for our VSD cooling fan manages heat rejection while saving significant power and lowering fan noise.

KR / KRV 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 expert technicians complete assembly and testing 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 on 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.





**ROGERS
MACHINERY
COMPANY, INC.**

Since 1949

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Portland Branch and Corporate Office - Portland, Oregon
Offices and manufacturing powered in part by the sun.



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OUR GUARANTEE

If you notify us that you have an emergency and require a standard part or service for your ROGERS™ compressor, we will ship the part and/or initiate the service within 24 hours or you will not pay for either or both.

ROGERS™ family of **ECOPAK™** compressors.

