



ROTARY SCREW AIR COMPRESSORS

KR-KRV Series

Fixed or Variable Speed ■ Lubricant-Injected ■ Single-Stage
25-350 HP ■ Air or Water-Cooled ■ 40-210 PSIG



ROGERS® KR-KRV Series

A Look Inside the KR-KRV Series...

Sound Enclosure

Heavy-duty powder coated construction provides quiet operation.

Inlet Filter/Silencer

Low-pressure drop element (not shown).

Inlet Control Valve

(hidden from view) Rugged design for reliable capacity control.

Oversized Heat Exchangers, Moisture Separator and Auto Drain

Cools lubricant and air while removing up to 80% of moisture from airstream.

Compressor Control

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

Starter Panel (not shown)

KR: X-Line, Wye-Delta, and solid-state starter options.

KRV: Variable Speed drive standard.

Fan

Low sound centrifugal fan(s) with TEFC motors.

Drive Motor

Standard, high efficiency, C-Flange, ODP, NEMA frame motors. TEFC option available on fixed speed models.

Lubricant Filter

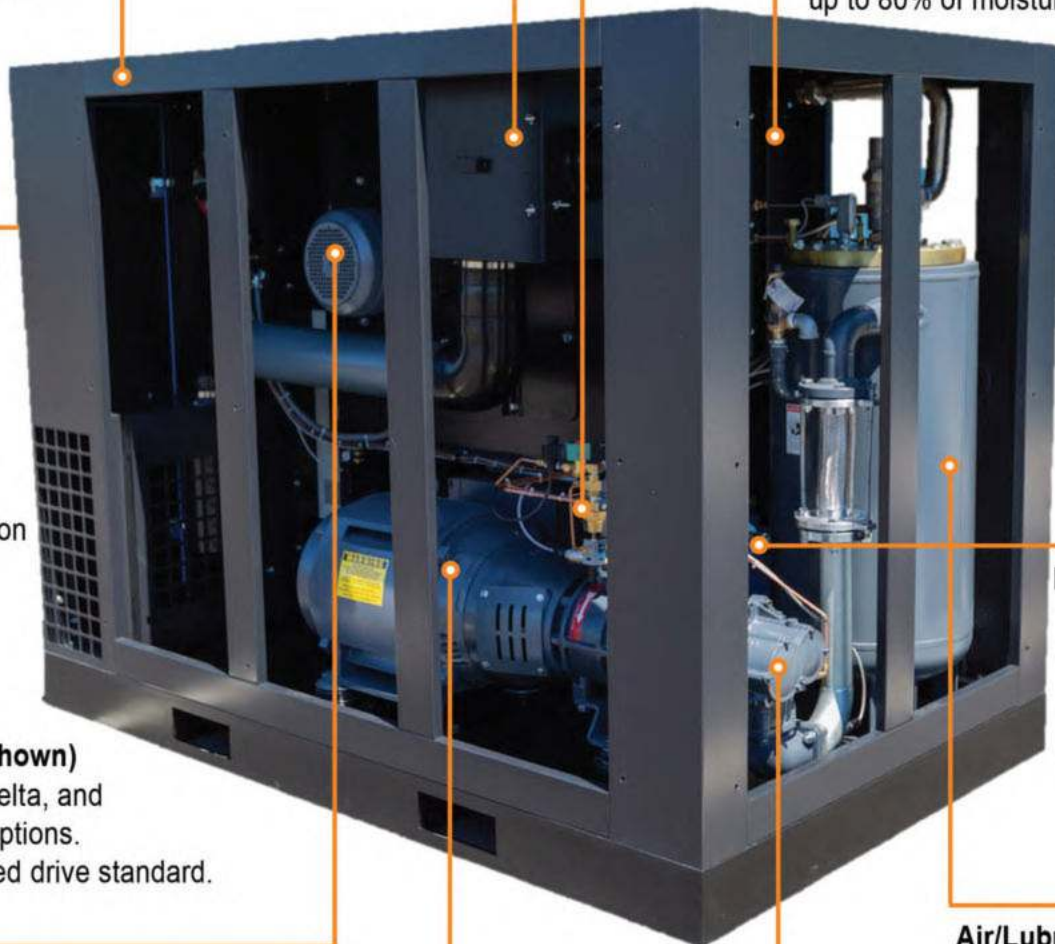
(hidden from view) Spin-on, full-flow, 12 μ , high-efficiency element(s).

Air/Lubricant Separator

High efficiency, reliable, multi-stage separation.

Airend

Designed and built for high performance and longevity.



Compressor model KRV-125-100 shown.



ROGERS® KR-KRV Series

At the Heart of Reliability and Performance



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

Heavy-Duty Inlet Valve

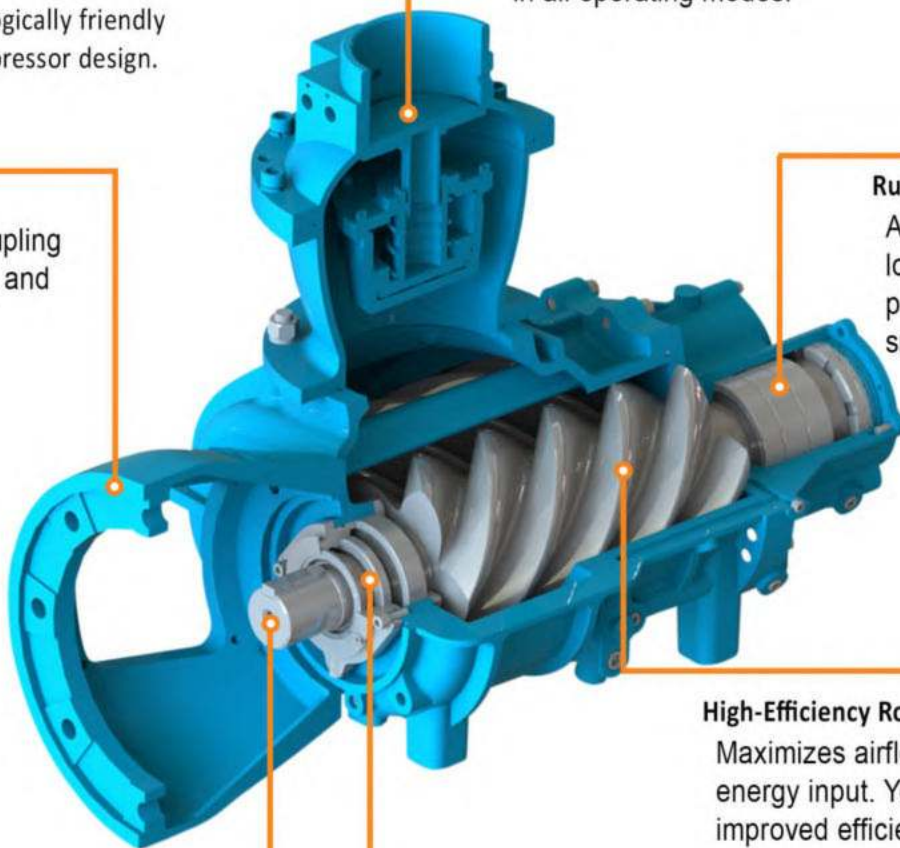
Provides reliable capacity control in all operating modes.

C-Face Motor Mount

Ensures extended coupling life, quieter operation, and ease of alignment.

Rugged Bearings

Absorbs radial and axial loads at low speed to provide longevity and smooth, efficient operation.



High-Efficiency Rotor Design

Maximizes airflow while requiring minimal energy input. Years of development have improved efficiency by more than 20% over earlier designs.

Flexible Coupling (not shown)

Easily removable for maintenance on motor or airend.

Triple-Lip Shaft Seal

With scavenge line back to airend, provides unequaled reliability and leak protection.

The Assembly Offers . . .

Long-Lasting Bearings

SKF bearings combined with slower rotational speeds consistently outlast competitive designs.

Triple-Lip Shaft Seal

Lip shaft seals are more reliable than typical mechanical seals.

ROGERS® CLS-46 Lubricant

Specifically formulated to provide long life in Rogers' rotary screw air compressors. Option for food grade and other alternative lubricants available.

Energy Efficient

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

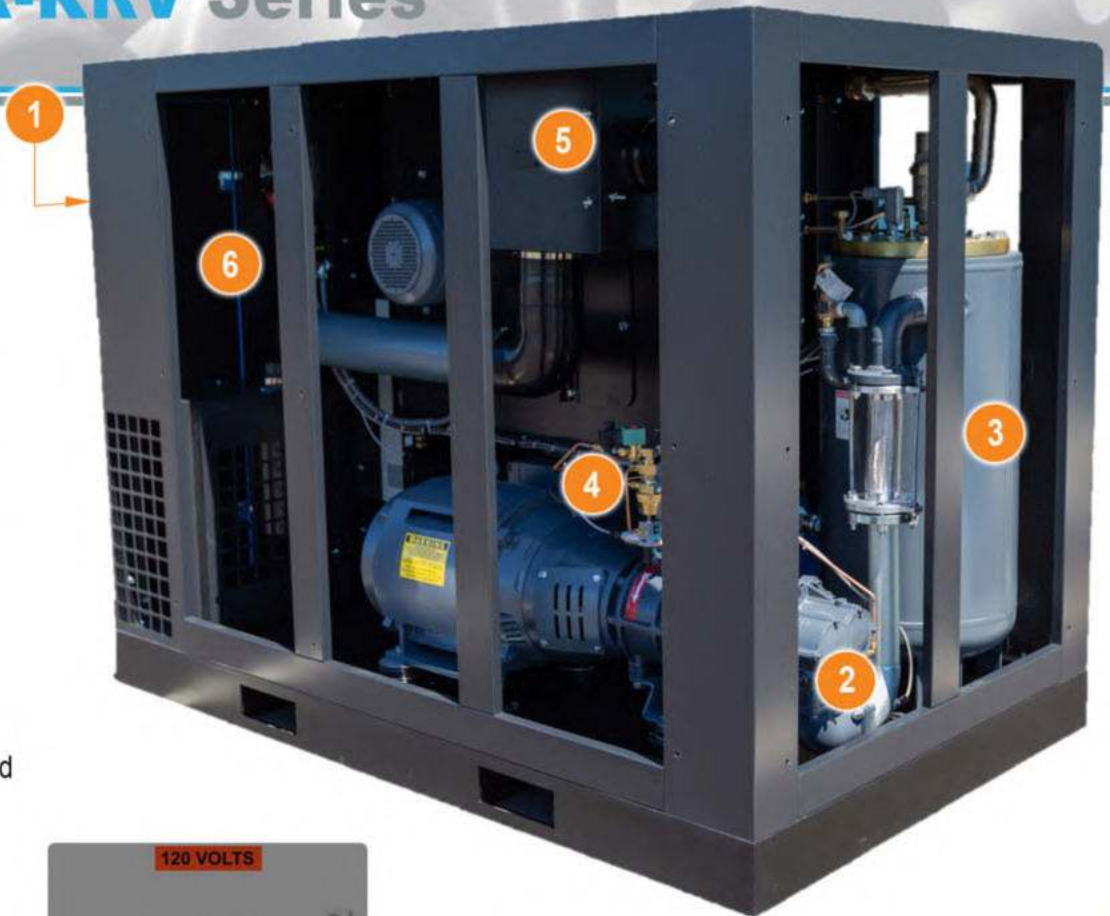
Slow Speed Rotors

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

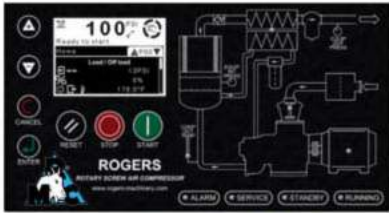
Warranty

Our standard 5-year airend and motor and extended 10-year airend warranties are the best supported warranties in the industry.

ROGERS® KR-KRV Series



1 Compressor Control



STANDARD eGOAT CONTROLLER PANEL

Optimum performance with efficient pressure and flow control. The microprocessor control monitors, regulates, and protects.

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 GOAT3 PLC controls available with a high-resolution touchscreen panel.



OPTIONAL GOAT3 CONTROLLER PANEL

2 Airend

Direct drive design increases efficiency and longevity. The 5:6 rotor profile design eliminates airflow 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 Co. has designed, built, and serviced compressed air systems and other plant utility equipment. **ROGERS®** builds the **K Series**, oil-lubricated compressors, in Centralia, WA and our **KNW**, oil-free compressors, in Portland, OR. In addition, we provide 24/7 sales, parts and service support to our branch offices and distributor partners while maintaining an extensive inventory of parts for service and repair.

INNOVATIVE

The **ROGERS® KR-KRV Series** compressors represent a complement of features designed to provide "best in class" performance, with features such as advanced inlet filtration and low pressure loss inlet valves, efficient 5:6

ROGERS® KR-KRV Series

3



Air/Lubricant Separator

Five-stage separation system produces less than 2 PPM (w) lubricant carryover. Complete with sight glasses for lubricant level and scavenging lines.

4

Inlet Control Valve

The large cast housing operates smoothly and reliably for efficient airflow 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.



... the Right Choice

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

SYSTEMS

The **ROGERS® KR/KRV Series** 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 airflow to your plant.

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Variable Speed Drive

The KRV Series includes a heavy-duty control system designed to match demand with flow. Oversizing the VSD ensures maximum power delivery and cost savings with incredible longevity.

**Multiple brand options available.*



Variable Speed Oil Cooling Fan (not shown)

(Standard on KRV-150 and KR-125 and higher)

The control loop for our VSD oil cooling fan provides precise lubricant temperature control in all operating environments. In addition, it reduces power consumption and lowers fan noise.

Upgrade Your Control System To A

ROGERS® GOAT3

Graphic Operator Access Terminal

User-Friendly Digital Control with Fast Maintenance and Troubleshooting Information at Your Fingertips

Features Include:

- Allen Bradley CompactLogix™ L306 PLC.
- Beijer Electronics X2, seven-inch color touchscreen controller optimizes and enhances user interface.
- Large, easy-to-see Pilot Lights immediately informs you of the unit's status from clear across the room.



Standard Noise Reduction Technology Features

Precision Machined, Heavy-Duty Airend Casing

Slower airend rotating speeds, without the use of high-speed gearing, contributes to quieter operation and longer bearing life.

Welded 'Squirrel-Cage' Fan

Enclosed, heavy-duty, welded aluminum fan construction significantly reduces operating noise levels.



Baffled and Filtered Inlet Air

The air inlet system has baffles and filtration which isolates the rotor mesh noise from escaping the compressor enclosure.



Isolator Mounts

Isolator mounts absorb energy transmission from rotating elements. This energy is transferred into the unit's base and framework, reducing noise amplification and vibration.



Sound Deadening Devices

Heavy-duty hinges and dual latches secure doors tightly, compressing seals to provide superior noise reduction. All panels covered with 1-inch-thick sound deadening foam.

ROGERS® KR-KRV Series

Industry Leading Compressor and Vacuum Pumps

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, plywood, flooring, and mill work production.

Metals: Used in smelters, foundries, forges, rebar manufacturing, and machine shop operations.

Wastewater and Water Treatment: Used for pumping, mixing, valve positioning, and aeration applications.

Glass and Plastics: Utilized in forming, blowing and finishing, sandblasting, etching, and vacuum lifting.

Beverages: Used by bottlers, brewers, vintners, distillers, juice, and tea producers.

Food Processing and Packaging: Usages include transferring liquid and granular products, cleaning, spraying, filling, etc. The list is nearly endless.



Unequaled Commitment to Service and Support

Service and Repair

When you have critical industrial equipment in need of repair, you need 24/7 availability. So, whether you're in need of industrial air compressor repair, industrial vacuum pump repair, or industrial blower repair, we are always ready when you need us.



Parts

We want to keep your business running smoothly and on time, that's why you can call us whenever you need air compressor parts, parts for pumps, blowers, and vacuum systems. We will have someone available to take your call, search our inventory and find just the part you are looking for.





Serving the United States and
International Markets With
Compressed Air, Blowers,
Pumps and Vacuum Solutions
Since 1949



Centralia Branch Office, Production and Warehouse Facilities Centralia, WA

K Series

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ROGERS® **K Series** is designed
and built in the USA.

ROGERS® K Series family of compressors and vacuum pumps



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Please recycle after using.