



TWO-STAGE, ROTARY SCREW AIR COMPRESSORS

KR2-KR2V Series

Premium, Efficient, Two-Stage Compressors

Fixed or Variable Speed ■ Lubricant-Injected ■ Two-Stage
100-600 HP ■ Air or Water-Cooled ■ 80-210 PSIG



ROGERS® KR2-KR2V Series, Two-Stage

Inside the KR2-KR2V



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

Inlet Control Valve

Rugged, full closure design for reliable capacity control. The valve doubles as a check valve, eliminating oil loss out of the inlet on power failure.

Sound Enclosure

Heavy-duty powder coated construction provides quiet operation.

Air/Lubricant Separator

High efficiency, reliable, multi-stage separation.

Two-Stage Airend

Driven through helical gears, designed, and built for performance, premium efficiency, and longevity.

Inlet Filter/Silencer

Multi-stage, low-pressure drop elements.

Oversized Heat Exchangers, Moisture Separator and Auto Drain

Cools lubricant and air while removing up to 80% of moisture from the airstream. The lubricant cooler is provided with VSD fan control as standard above 100 HP to reduce power consumption and noise.

Compressor Control

Status indicators with easy-to-read Interface including Percent Capacity display.

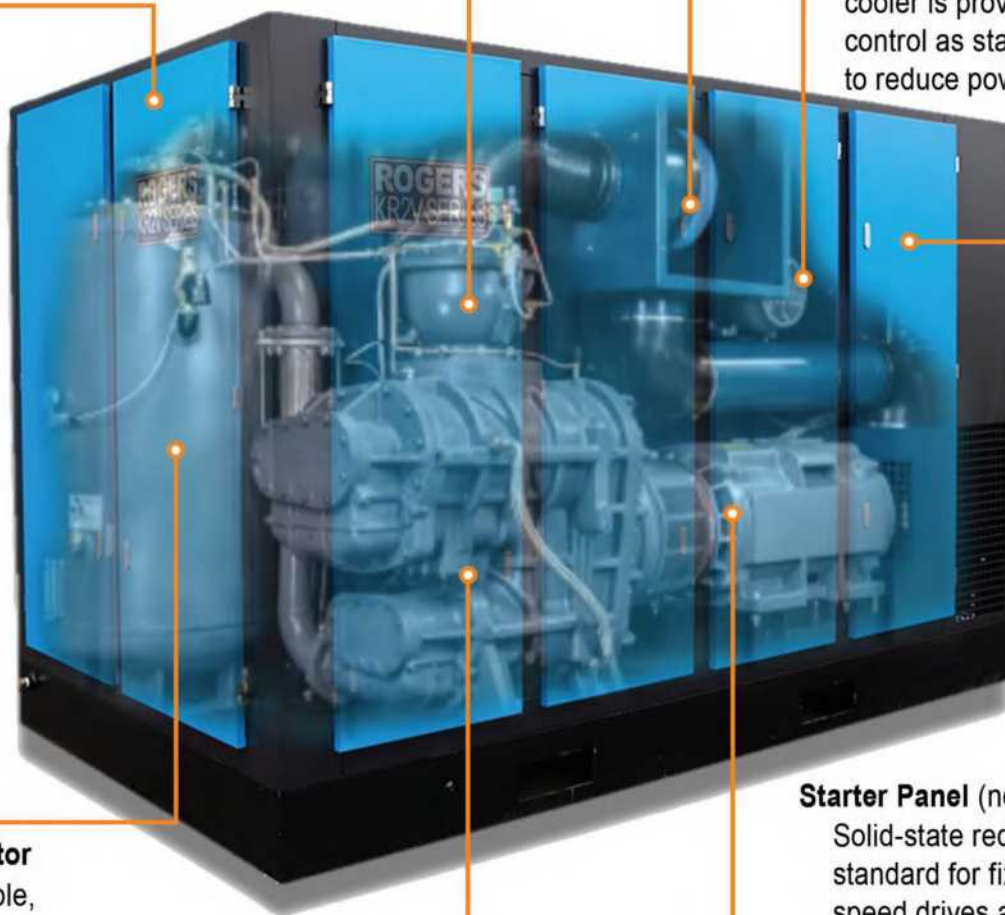
MODBUS remote communication is standard.

Starter Panel (not shown)

Solid-state reduced voltage starting standard for fixed speed or variable speed drives available as well.

Drive Motor

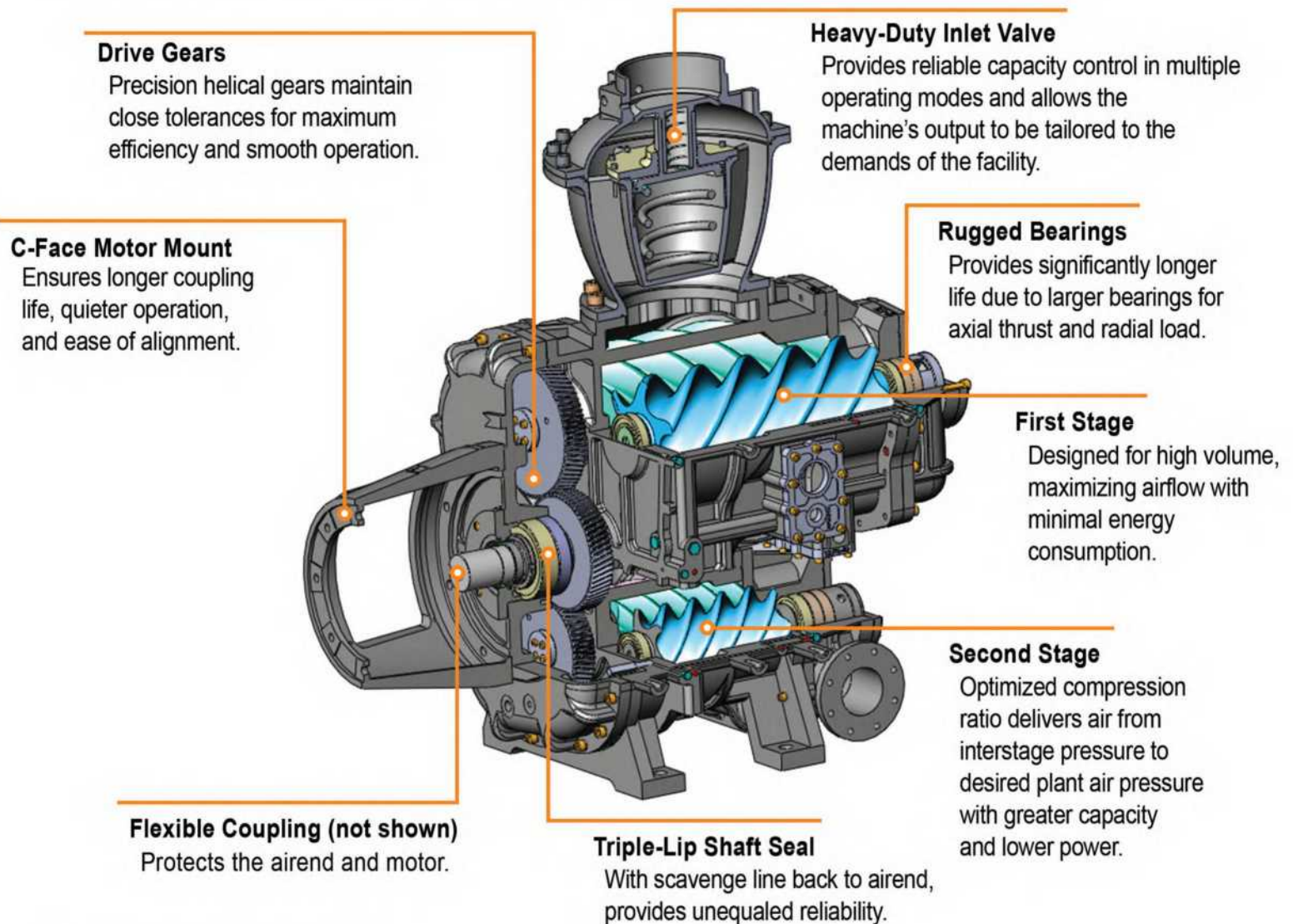
Standard, high efficiency, C-Flange, ODP, NEMA frame induction motors. TEFC option is available.



ROGERS® model KR2-300-100 shown.

ROGERS® KR2-KR2V Series, Two-Stage Airend

The Heart of the Compressor's Reliability and Performance



Drive Gears
Precision helical gears maintain close tolerances for maximum efficiency and smooth operation.

C-Face Motor Mount
Ensures longer coupling life, quieter operation, and ease of alignment.

Flexible Coupling (not shown)
Protects the airend and motor.

Heavy-Duty Inlet Valve
Provides reliable capacity control in multiple operating modes and allows the machine's output to be tailored to the demands of the facility.

Rugged Bearings
Provides significantly longer life due to larger bearings for axial thrust and radial load.

First Stage
Designed for high volume, maximizing airflow with minimal energy consumption.

Second Stage
Optimized compression ratio delivers air from interstage pressure to desired plant air pressure with greater capacity and lower power.

Triple-Lip Shaft Seal
With scavenge line back to airend, provides unequaled reliability.

The Airend Provides . . .

Long-Lasting Bearings
SKF bearings combined with slower rotational speeds consistently outlast competitive designs.

Triple-Lip Shaft Seal
The **KR2-KR2V** Series triple-lip shaft seal is more reliable than a mechanical seal.

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.

Premium Efficiency
With two-stage compression and controlled lubricant injection, this design provides premium efficiency approaching isothermal compression.

Precisely Ground Rotors
Rotors matched to take full advantage of available high precision airend and casing machining to limit slip and maximize performance.

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

KR2-KR2V Series, Two-Stage Components

Compressor Control



STANDARD eGOAT
CONTROLLER PANEL

The eGoat controller offers optimum performance with efficient pressure and flow control. The microprocessor controls monitors, regulates, protects, and communicates up-to-the-second operating performance, and service status via its high-resolution display and LED indicators. The eGOAT also features Ethernet monitoring, MODBUS communication for remote control operations and onboard sequencing for controlling other on-site compressors. The optional GOAT3 PLC processor enhances the user interface with a 7-inch color touchscreen and also provides at-a-glance status conditions with high-visibility, color coded lights.



OPTIONAL GOAT3
CONTROLLER PANEL

Air/Lubricant Separator

The five-stage separation system produces less than 2 PPM (w) lubricant carry-over. Complete with sight glasses for lubricant level and scavenging lines.



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.

INNOVATION

The **ROGERS® KR2-KR2V 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 rotor

Two-Stage Airend

Optimized compression ratios maximize efficiency and longevity. The 5:6 rotor design minimizes losses while the housing optimizes lubricant injection and discharge porting to maximize volumetric efficiency. A NEMA C-face motor mounting flange is standard throughout the entire range.

... the Right Choice

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

SYSTEMS

The **ROGERS® KR2/KR2V 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.

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.



Variable Speed Drive

The **KR2V Series** includes a heavy-duty control system designed to match demand with flow. By oversizing the VSD, we deliver maximum power savings with incredible longevity.

**Multiple brand options available.*

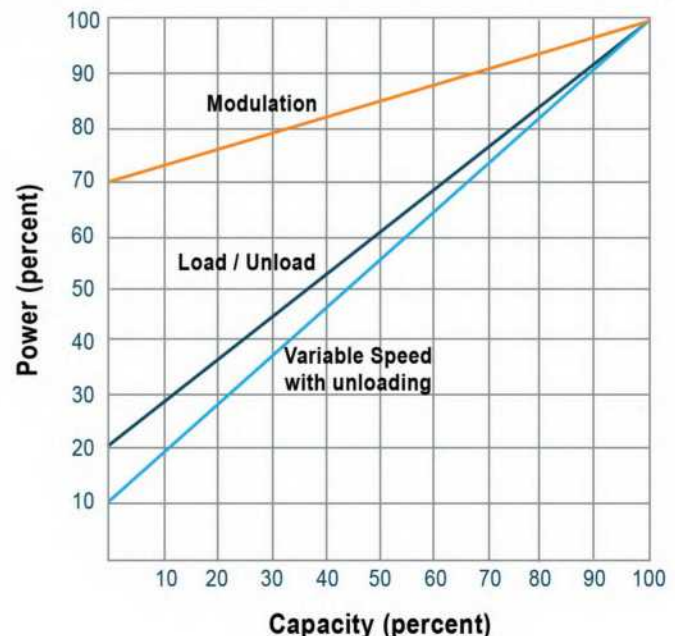


Compressed air systems are dynamic in nature. By controlling compressor output to match system demand, substantial energy savings can be achieved.



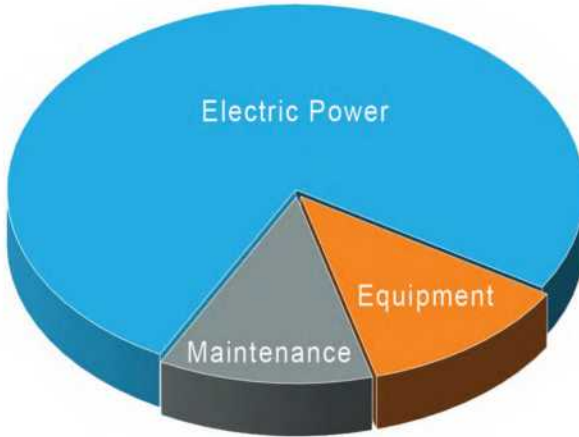
ROGERS® delivers an ecologically friendly and energy-efficient compressor design.

Typical Energy Savings with Variable Speed Control



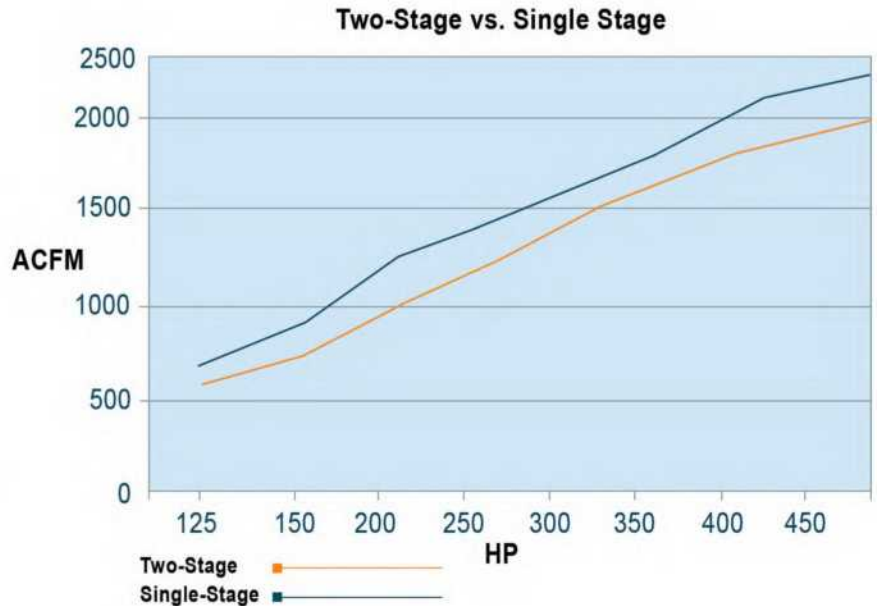
KR2-KR2V Series, Two-Stage Benefits

Exceptional, Dependable Performance



- **ROGERS® KR2/KR2V Series** are optimal designs for base-load or variable speed trim applications.
- **Two-Stage** design significantly reduces electrical operating costs.
- **U.S. Department of Energy** studies have confirmed that energy costs for compressed air systems are typically 75% of operating costs during the first 10 years of operation.

- **ROGERS® KR2/KR2V Series** assemblies are designed to provide best-in-class efficiency.
- **Two-Stage** technology offers 10-15% increased efficiency over our outstanding single-stage performance.
- **Market Leader** consistently outperforming competitors in factory and field performance tests.



- **Designed** with a simple, flexible yet rugged packaging.
- **Robust** airend and easy-to-use controls will continue to deliver on the promise of long-term savings.
- **Rotors** are housed in precision machined castings for smooth, quiet operation.
- **Stages** optimized to maximize flow and pressure rise to limit the power consumption.
- **Optimized** inlet flow, lubricant injection, and discharge porting for low inlet pressure drop, efficiency and compression ratio.

ROGERS® KR2-KR2V 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.