

ROGERS®

Rotary Screw Air Compressors



KR2 / KR2V Series

Premium Efficient Two-Stage Compressors

Enclosed ■ Fixed Speed or Variable Speed ■ Lubricant-Injected
100 - 500 HP ■ Air or Water-Cooled ■ 80 - 210 PSIG



ROGERS® KR2/KR2V Series, Two-Stage

Inside the KR2/KR2V Series



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

Inlet Control Valve

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

Sound Enclosure

Where quiet operation is required. Heavy duty powder coated steel construction. Removable modular assembly.

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 airstream. The lubricant cooler is provided with VSD fan control as standard over 125 HP and reduces power consumption and noise.

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, Two-Stage

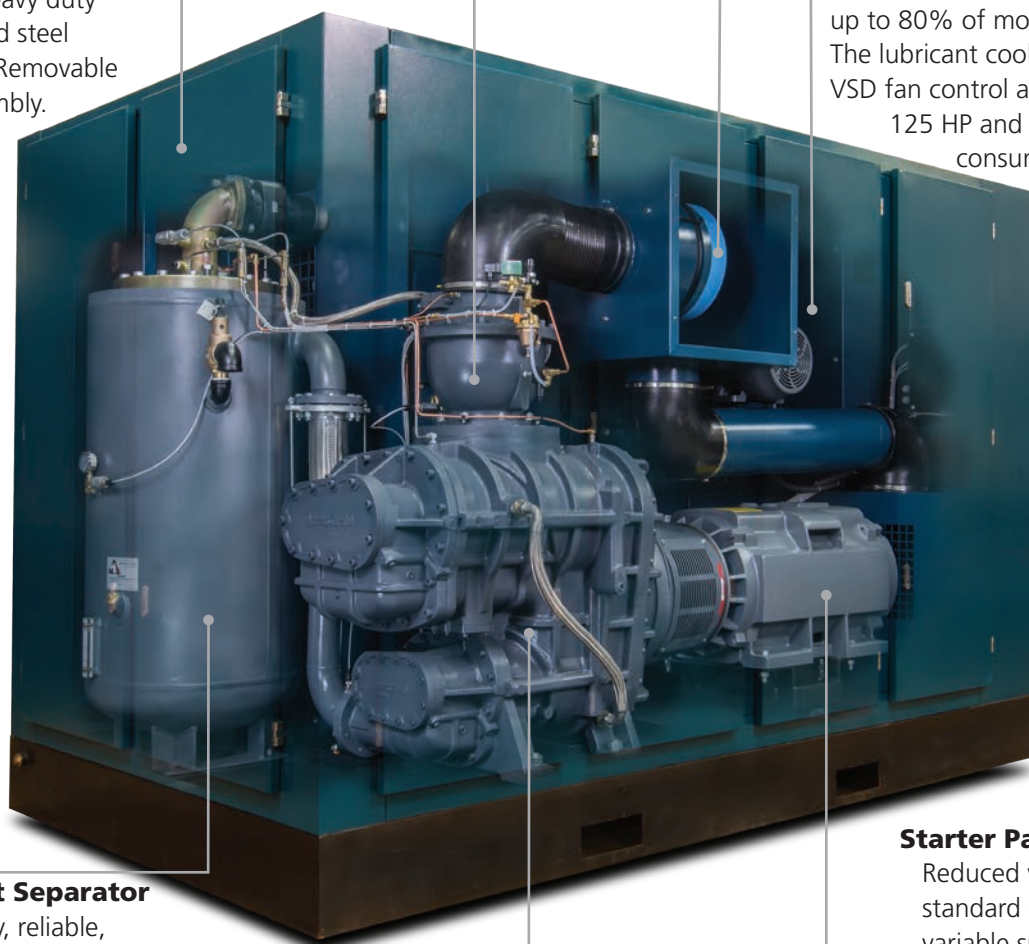
Driven through helical gears, designed and built for performance, premium efficiency and longevity.

Motor

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

Starter Panel (not shown)

Reduced voltage starting standard on fixed speed with variable speed drives available as well. VSD may ship loose.

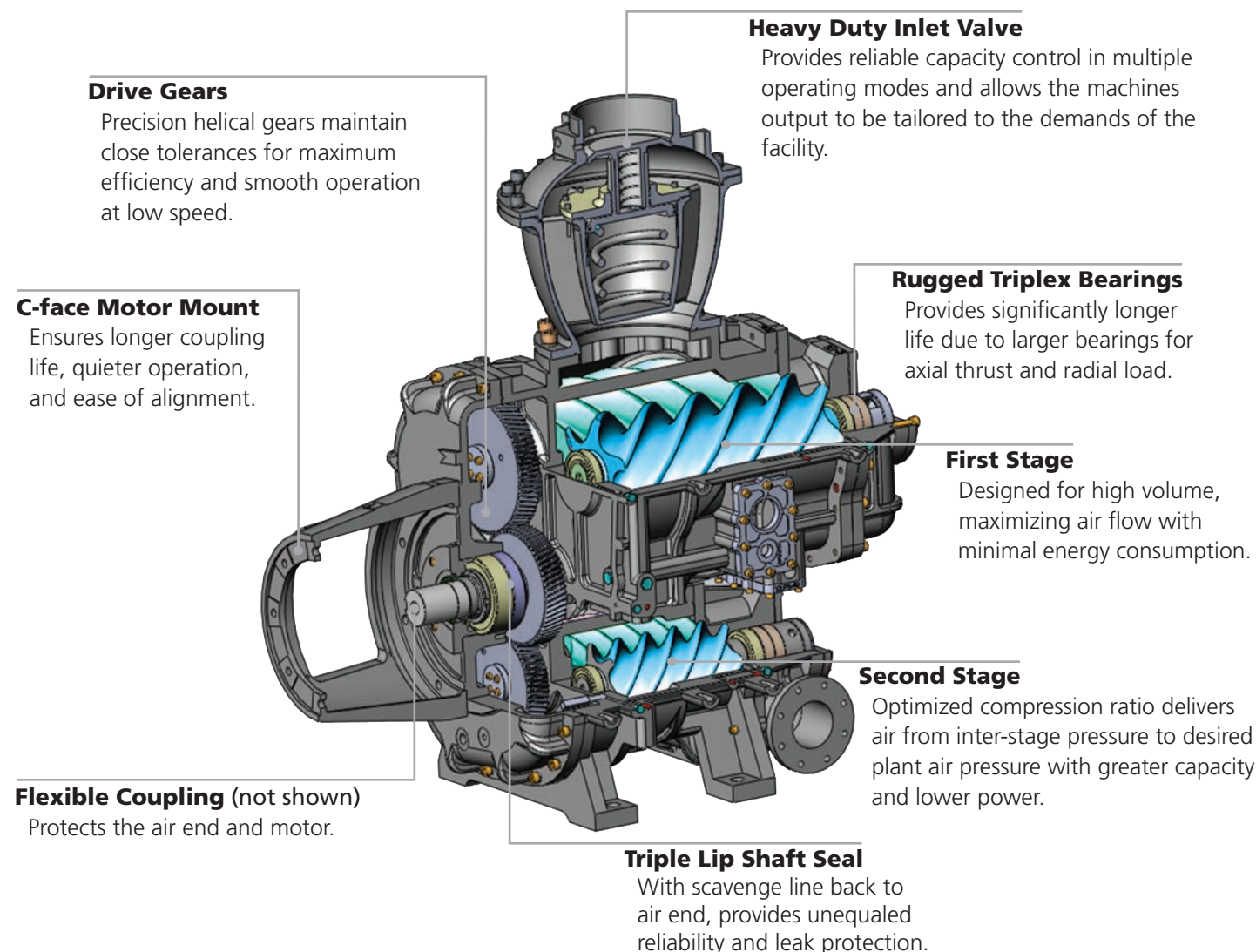


ROGERS® model KR2-300-100 shown.

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

KR2/KR2V Series, Two-Stage Air End

The Heart of the Compressor's Reliability and Performance



The Air End Provides...

Triplex Bearings

Superior three-bearing arrangement consistently outlasts competitive designs.

Shaft Seal

The KR2/KR2V Series triple-lip shaft seal is more reliable 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. Food grade, extended life and other blends available.

Premium Efficiency

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

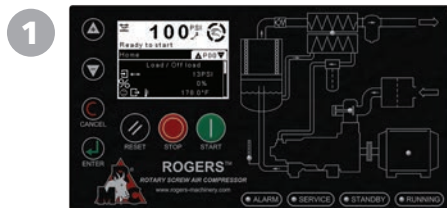
Rotors

Rotors paired to deliver desired plant pressure take full advantage of available high precision air end and casing machining to limit slip and improve performance.

Warranty

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

KR2/KR2V Series, Two-Stage 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.



Air End, Two-Stage

Optimized compression ratios maximize efficiency and longevity. The 5:6 rotor design minimizes losses while the housing optimizes lubricant injection and discharge porting to increase volumetric efficiency. A C-face motor mounting flange is standard through the entire 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® operates manufacturing facilities in Portland, Oregon and Centralia, Washington with 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® KR2/KR2V Series compressors represent a complement of features designed to provide "best in class" two-stage performance, with features such as advanced inlet filtration and low pressure loss.



4

Variable Speed Drive Main Motor (KR2V)

A heavy duty control designed to match compressor output to demand. It is a blend of a robust power platform and a state-of-the-art control strategy. The drive provides a soft start and the ability to operate efficiently through the compressor's capacity range while maintaining precise pressure control. VSD specified at time of purchase. (Line reactor available.)



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Variable Speed Drive Cooling Fan (Standard over 125 HP on lubricant cooler)

Our VSD control loop for the lubricant cooling fan manages heat rejection while saving power and reducing fan noise.

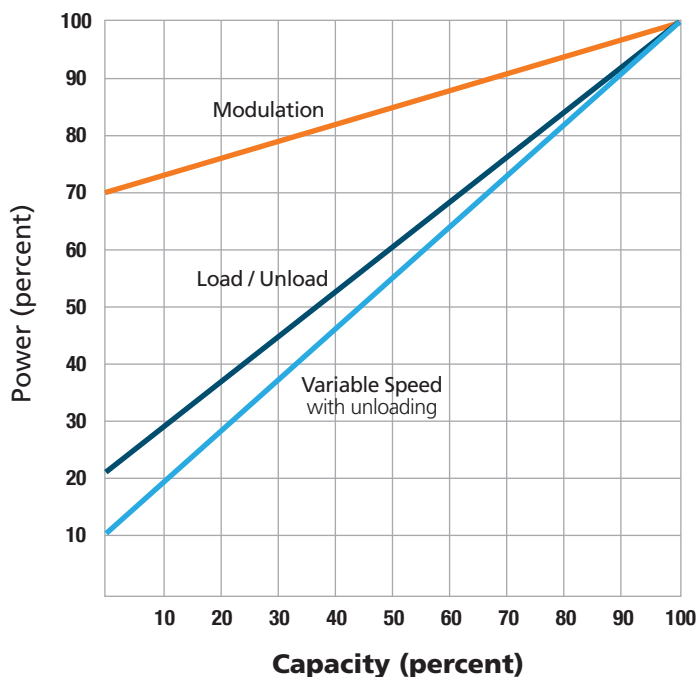
...The Right Choice

Inlet 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 and efficient compressor you can install today.

Systems

The KR2/KR2V Series design allows for good 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.

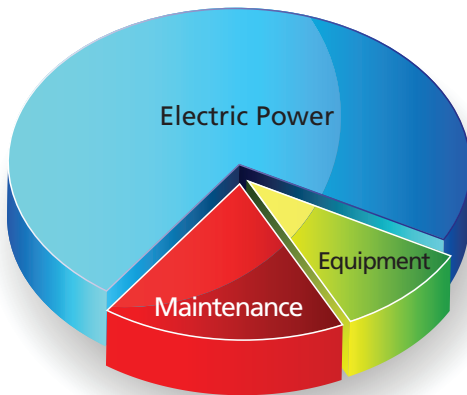
Typical Energy Savings with Variable Speed Control



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

KR2/KR2V Series, Two Stage Benefits

Exceptional performance you can rely on.

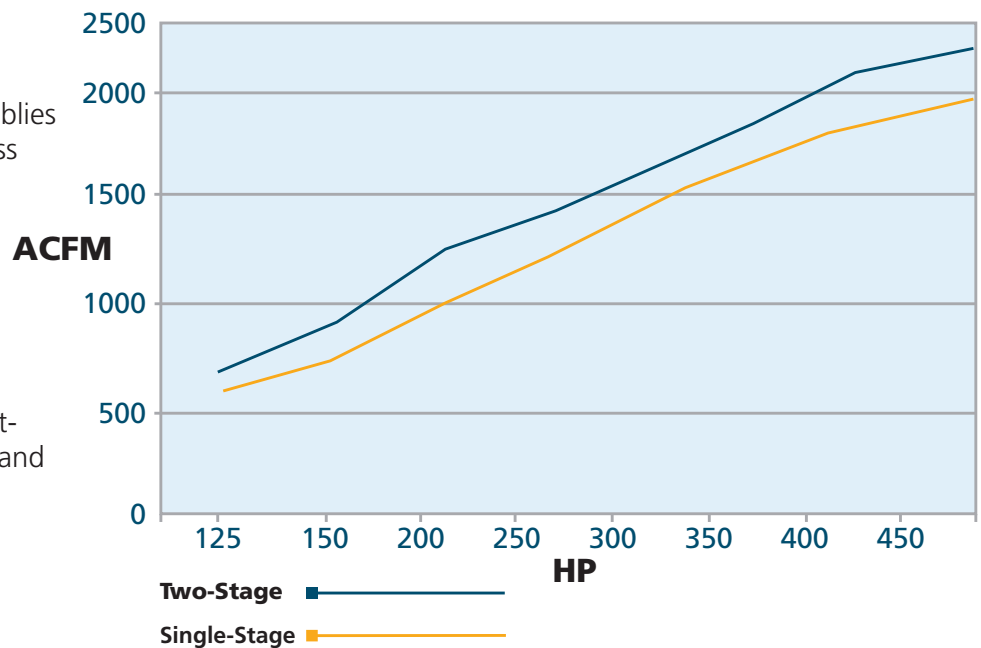


Total System Cost

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

- **The ROGERS® KR2/KR2V** are optimal designs for base-load or variable speed trim applications.
- **Two-Stage** design significantly reduces 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.

Two-Stage vs. Single-Stage



- **Design Philosophy** - Simple, Flexible and Rugged Packaging.
- **Robust** air end and easy to use controls that will continue to deliver on the promise of long term savings.
- **Rotors** are housed in precision machined castings.
- **Stages** optimized to maximize flow and pressure rise to limit power consumption.
- **Optimized** inlet flow, lubricant injection and discharge porting.

Press start and watch the savings flow...

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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K Series

IMPULSORA ZEUS, S.A. DE C.V.



ROGERS® K Series family of compressors and vacuum pumps