

RS-Series Oil-Flooded Rotary Screw Air Compressors



The intelligence you need to move your business forward

Ingersoll Rand works to keep you ahead of your competition with advanced compressed air systems that boost productivity, lower operating expenses and extend equipment life. These innovations are designed into every RS-Series oil-flooded rotary screw air compressor—industry-leading airend enhancements for superior efficiency, best-in-class delivered capacity and exceptional reliability. All supported by unique advantages, including expert design and engineering, a comprehensive suite of support programs and long-life Ingersoll Rand-branded consumables.

RS-Series compressors. The intelligence you need—to win.

Global presence, local service



Efficient operation and powerful information

We started at the core

When we made the RS-Series we started with an all-new, state-of-the-art airend, making it your best choice for performance. The new airend improves efficiency as much as 18% through several advancements, including an optimized rotor profile to help minimize operating expenses. The new rotor profile also provides best-in-class airflow capacity, delivering up to 15% more airflow than previous models. With more airflow for the same power input, your compressor requirements are smaller, reducing both investment costs and energy usage, to lower your total cost of ownership.



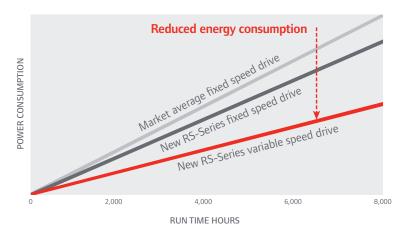
Knowledge is power

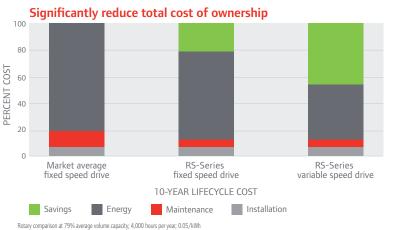
The best compressors deliver air and actionable information. That's why every RS-Series compressor includes an Xe-Series intelligent controller that monitors key operations and adjusts system parameters to maximize uptime and minimize energy consumption. It gives you real-time facts to make and execute informed decisions...from virtually anywhere in the world.



Driving toward maximum efficiency

Every RS-Series compressor's drive motor features an advanced induction design that meets the IE3/NEMA Premium® energy-efficiency standards. For even more efficiency, an optional variable speed drive (VSD) can help you save up to 35% on energy costs.





The elements of smart design

INTELLIGENT



- 2 Progressive Adaptive Control (PAC™) automatically reacts to key parameters to minimize unexpected downtime
- 3 Hinged-door service access with integrated handles provides quick, easy access to all user-maintainable components—including the heat exchangers, which don't require removal during routine cleaning

RELIABLE

- 4 Three-stage separation system with conical baffle removes all but 3 ppm of lubricating oil from delivered air—protecting downstream equipment and extending filter life—to maximize productivity and minimize expenses (available on "ie" compressor models only)
- 5 Long-life Ingersoll Rand consumables reduce hard costs, extend maintenance intervals and minimize downtime
- 6 Free-floating cooling system allows heat exchangers to expand and contract, reducing thermal stress for improved durability





Electronic, no-loss drain valves allow condensate draining without the loss of air pressure, saving you money



Single-location connectors consolidate electrical, air and condensate drain systems for faster, less expensive installations

EFFICIENT



All-new, state-ofthe-art airend improves efficiency as much as 18% and is designed for 10 years* of reliable operation

- 8 V-Shield™ technology uses a combination of advanced techniques that help deliver repeatable, leak-free connections
- 9 IE3/NEMA Premium® motors deliver even more energy savings than high-efficiency motors, and an available variable speed drive (VSD) helps further decrease energy demands

ALL-IN-ONE



- 10 Total Air System (TAS)
 package is available
 to complete your air
 compressor system with a
 space-saving, ready-to-run,
 pre-mounted dryer and
 filters
- Patented three-in-one modular cross-flow heat exchanger economically repurposes compressor heat to support other heat-dependent processes
- Two-stage, high-efficiency air filters deliver exceptional filtration, maintain maximum airflow and provide a visual indicator when changing is required

*Based on 4,000 operating hours annually



The airend—the heart of every compressor



Air compressor use accounts for a significant part of your business's energy costs. Our engineers and design experts used advanced computer modeling techniques to create a superior airend that improves efficiency up to 18%—plus best-in-class airflow capacity, quieter operation and a longer, more reliable life: multiple advantages to improve your business's bottom line.

Designed to deliver 10 years of reliable operation

- Strategically positioned lubrication points efficiently deliver oil exactly where it's needed, improving reliability and lowering power consumption
- 2 Advanced gear design transmits drive power more efficiently and reliably

INTEGRAL GEARBOX

- 3 Integral gearbox reduces windage losses and drivetrain length for more efficient performance and easier serviceability
- 4 Enhanced bearing arrangement reduces resistance and improves power management for maximum reliability and performance
- 5 Maintenance-free, sealed drive system requires no regular service and protects against damaging dirt and moisture

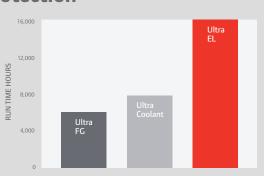


Maximum change intervals, maximum protection

Get the best of both worlds. Ingersoll Rand filters and lubricating oils provide unsurpassed longevity and protection to keep your

RS-Series compressor running longer.







Best-in-class delivered capacity

The RS-Series has a new rotor profile that delivers up to 15% more airflow, surpassing the capacity of any similarly sized system. Get the airflow you need—and save on operating costs as well—from a smaller, less expensive, more-efficient RS-Series system.



Reliable air to keep you running

Every component in an RS-Series compressor system supports maximum reliability—for more productivity, longer equipment life, lower operating costs and higher profitability.

Progressive Adaptive Control (PAC™)

PAC helps you properly maintain your air compressor system by automatically reacting to key parameters to reduce the risk of unexpected downtime.

- Monitors critical performance parameters
- Adjusts system output to address extreme conditions and ensure continued operation without damaging the system even when certain maintenance operations are overdue





Free-floating cooling system

Allows heat exchangers to expand and contract, reducing thermal stress for improved system durability.



V-Shield[™] technology

V-Shield™ technology combines superior techniques that deliver repeatable, leak-free connections to maximize efficiency and reduce leak-related problems.

- Face-seal connections provide flat, tight, virtually distortion-free joints
- Fluoroelastomer O-rings resist chemicals and extreme temperatures for long-term durability
- Premium metal-flex air hoses last up to three times longer than conventional hoses, using a braided stainless steel exterior and a PTFE-lined interior to resist chemicals, heat, oxidation, abrasion, pressure and fatique
- Vibration isolation system reduces vibration to increase compressor life and lower noise levels

The power of intelligence

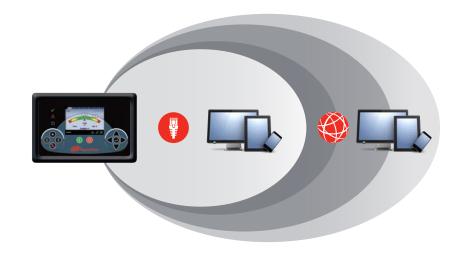
Xe-Series intelligent controllers optimize operational parameters to ensure maximum productivity. You can stay informed of the system's status and make changes from anywhere in the world.

- **Intuitive, high-resolution color display** provides easy-to-understand icons and more than 30 available languages to show vital functions at a glance
- **User-intuitive folders** with critical and non-critical parameters and operating characteristics provide deeper insights into your compressor's performance
- Advanced control algorithms ensure maximum energy efficiency and reliability—even during periods of moderate workloads
- Performance analysis/graphical trending using the Xe-145 intelligent controller to display compressor performance over time in easy-to-understand graphical charts—supporting informed decisions and well-planned maintenance
- **Integral sequencer** coordinates the operation of up to four compressors to precisely meet demand, save energy and minimize wear
- **Real-time clock schedule (option)** lets you program Xe-90/145 controllers to start/stop the system at specific times to maximize productivity, conserve energy and reduce downtime
- $\boldsymbol{\cdot}$ $\boldsymbol{\text{On-board}}$ web pages feature the same convenient status bar found on the controller interface



Stay connected virtually anywhere

Whether you're 10 feet or 10,000 miles away, Xe-Series controllers keep you connected—so you'll always know the compressor's operating status and can make any necessary changes. Onsite, connect locally through your Distributed Control System (DCS) using Modbus or Ethernet. Remotely, access critical data and controls with any common, current web browser.

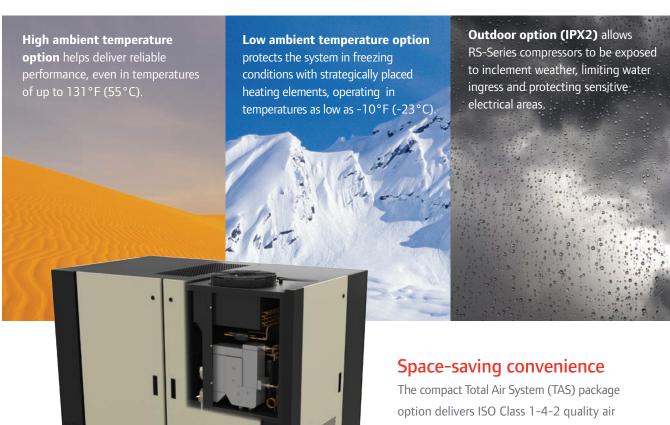


The performance you expect

Advanced solutions that ensure reliable flow—even in extreme operating environments. That's what you expect from Ingersoll Rand. That's what you get from the RS-Series.

Built to work in virtually any environment

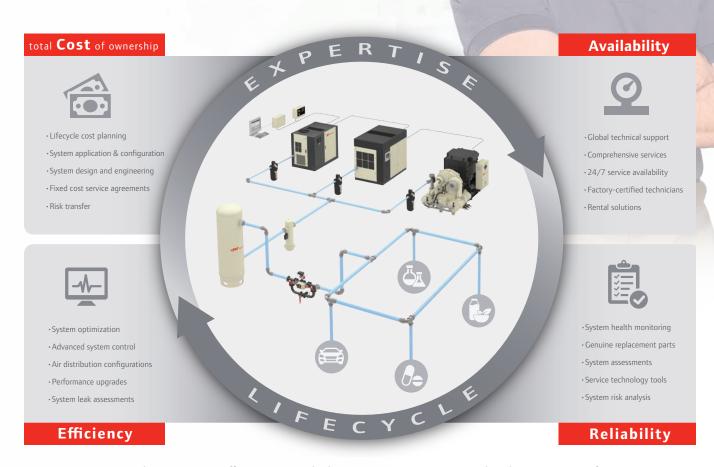
The RS-Series features an advanced motor design built to operate at extreme ambient temperatures between 35°F (2°C) and 115°F (46°C). Ambient temperatures that approach or drop below freezing can cause problems for any air compressor. The Xe-Series controller triggers an alert if freezing conditions are detected during startup.



The compact Iotal Air System (IAS) package option delivers ISO Class 1-4-2 quality air measured at steady state conditions in accordance with ISO 8573-1:2010, with inlet air to package conditions of 77°F (25°C) and RH of 60%*.

CARE. Your trusted partner in compressed air

Optimize your total **Cost** of ownership, while maximizing **Availability**, **Reliability** and **Efficiency** throughout the life of your compressed air system with our Lifecycle CARE services.



Design • Install • Commission • Operate • Maintain • Extend

PackageCARE™...eliminate the inconvenience

No matter where your facility is located, Ingersoll Rand is committed to serving you 24 hours a day, seven days a week, available to support you with innovative and cost-effective service solutions that will keep you running at peak performance. Let Ingersoll Rand handle the pressures and responsibilities of owning a compressed air system with our signature service contract.





Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings; transport and protect food and perishables; and increase industrial productivity and efficiency. We are a \$13 billion global business committed to a world of sustainable progress and enduring results.









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