Ingersoll Rand

Fixed and Variable Speed Rotary Screw Compressors

R-Series 4-11 kW (5-15 hp)

More Than 145 Years of Compressed Air Innovation

Ingersoll Rand introduced its first air compressor in 1872. Over the next 145 years, we have continued to develop rugged, reliable, industry-leading rotary screw compressor technologies. No matter what the application, Ingersoll Rand rotary screw technology provides clean, dry air in all operating conditions to meet your specific performance needs, reduce costly downtime and maximize your productivity.

Compact Performance

The durable Ingersoll Rand R-Series 4-11 kW compressor extends the R-Series family into the smallest rotary screw offering with benefits like innovative features and a **compact design that fits virtually any application environment.**

Enhanced Reliability

- TEFC Tri-Voltage (208-230/460 V) motor allows the unit to adapt to each voltage for all customers
- Danfoss drive (VSD models) provides world-class reliability, eliminating overheating and related component failures
- V-Shield™ technology uses premium PTFE hoses on all oil-carrying lines as well as O-ring face seal connections, virtually eliminating leaks and increasing hose life
- Power Outage Restart Option (PORO) safely restores the machine to previous settings following power interruption
- Improved cooler design minimizes thermal expansion stresses

Increased Efficiency

- IE3 premium energy-efficient motors support continuous operation in harsh environments
- Next-generation leak-free airends feature significantly improved turndown performance for variable speed units

Compact Productivity

- Vertically stacked drive components reduce the overall basemount footprint by 20% compared to previous models, improving balance and simplifying belt tension
- The R-Series Total Air System (TAS) provides clean, dry air in a single package that minimizes installation costs, space and features improved ISO air quality
- Whisper-quiet operation as low as 69 dBA allows for installation closer to point of use, reducing costs and ensuring a better, safer work environment

Intelligence

- Xe-Series programmable controllers deliver increased control functionality through an intuitive user interface, allowing for easy access to all critical operating parameters
- Optional built-in event logging and trip history allow for greater machine usability and peace of mind

Proven Reliability. Robust Design.

The R-Series 4-11 kW family of compressors delivers optimum performance and easier maintenance, all in a robust, innovative package.

The Xe-Series controllers deliver increased control functionality through an intuitive user interface with large navigation buttons for both fixed and variable speed drives

A totally integrated, leak-free design uses PTFE stainless steel braided hoses

Vertically-stacked drive components allow for easy maintenance

The all-in-one airend features superior air/oil separation and reliability

Convenient Choices for a Complete Air Solution

Clean, Dry Air

Drying the compressed air to remove moisture and contaminants prevents damage to finishing processes or product quality.

TAS
(Total Air System)

- **A** 3-in-1 heat exchanger
- **B** High-efficiency and general purpose filters
- **C** Condenser
- **D** Reliable refrigerant compressor
- **E** Cyclon water separator

TAS—The Total Package

To provide the most comprehensive air solution, our Ingersoll Rand R-Series compressors are available with a Total Air System (TAS) option. These complete compressor and dryer systems come with integrated controls, water separators, drain ports and filters. For any capacity you need, let Ingersoll Rand provide the complete answer in a compact solution that fits your air requirements and workspace.

- General purpose and high-efficiency filters with integrated dryer deliver class-leading ISO 1-5-1 quality air
- 3-in-1 heat exchanger provides increased reliability and efficiency
- All new dryer design with unprecedented reliability minimizes installation costs with a single-point power connection

Total Air System—Dryer Operation

The onboard dryer controller is integrated into the TAS package such that the dryer cycling is controlled by the compressor operation, and dryer alarms are fed back to the compressor controller. The dryer controller also allows for adjustment of critical operating parameters, saving you time and ensuring peace of mind.

Ensuring Optimal Uptime

Xe-50M vs. Xe-70M Features

Xe-50M

Xe-70M

Feature/Option	Xe-50M	Xe-70M
Display	2.1″ monochrome	2.6″ 240 x 160 monochrome
Total I/O	11	23
RS-485 communication port	0	2
Ethernet port	No	Yes (optional ECO)
Data collection (SD collection card)	No	7 days (optional ECO)
Start/stop control	✓	✓
Manual load/unload control	✓	✓
Automatic load control (auto-restart)	✓	✓
Lead/lag		✓
Blower control		✓
Power out restart option (PORO)		✓
Integrated dryer control	✓	✓
Language	Symbolic	Text, over 30 languages

Productivity is enhanced due to advanced diagnostics, automated data logging, report generation and compressor sequencing.

Fixed and Variable Speed Drive Options

Features Description	Fixed Speed	Variable Speed
Xe-Series 50 controller	●	
Xe-Series 70 controller	○	●
Total Air System (TAS) with integrated dryer	○	○
Power outage restart option (PORO)	○	○
High ambient option	○	
Outdoor modification enclosure	○	
Ultra FG or Ultra EL coolant	○	○
Hi-dust air filter	○	
Low voltage (208-230 V)	●	○
Receiver tank size (80/120 gallon)	○	○

● Standard Feature ○ Optional Feature "Blank" Not Available

*Available with ECO option **Can only use one at a time due to shared port

Compressor Specifications

i Ingersoll Rand Fixed Speed – 60 Hz Performance							
	Max. Pressure	Nominal Power		Capacity (FAD)*	Dimensions	Weight (Air-cooled)	
Model	psig	kW	hp	cfm	Length x Width x Height	kg	lb
R4i	110	4.0	5.0	19.4	**millimeters** 960 x 690 x 1,186.5 **inches** 38 x 27 x 47	280	617
R4i	125	4.0	5.0	16.9		280	617
R4i	145	4.0	5.0	14.3		280	617
R5.5i	110	5.5	7.5	30.5		280	617
R5.5i	125	5.5	7.5	27.5		280	617
R5.5i	145	5.5	7.5	24.3		280	617
R5.5i	200	5.5	7.5	16.8		280	617
R7.5i	110	7.5	10.0	39.8		280	617
R7.5i	125	7.5	10.0	36.7		280	617
R7.5i	145	7.5	10.0	33.4		280	617
R7.5i	200	7.5	10.0	25.3		280	617
R11i	110	11.0	15.0	57.5		295	650
R11i	125	11.0	15.0	56.1		295	650
R11i	145	11.0	15.0	50.4		295	650
R11i	200	11.0	15.0	41.5		295	650
i Ingersoll Rand Fixed Speed TAS – 60 Hz Performance							
R4i TAS+	110	4.0	5.0	19.4	**millimeters** 1,156 x 690 x 186.5 **inches** 46 x 27 x 47	345	761
R4i TAS+	118	4.0	5.0	16.9		345	761
R4i TAS+	138	4.0	5.0	14.3		345	761
R5.5i TAS+	110	5.5	7.5	30.5		345	761
R5.5i TAS+	118	5.5	7.5	27.5		345	761
R5.5i TAS+	138	5.5	7.5	24.3		345	761
R5.5i TAS+	193	5.5	7.5	16.8		345	761
R7.5i TAS+	110	7.5	10.0	39.8		345	761
R7.5i TAS+	118	7.5	10.0	36.7		345	761
R7.5i TAS+	138	7.5	10.0	33.4		345	761
R7.5i TAS+	193	7.5	10.0	25.3		345	761
R11i TAS+	110	11.0	15.0	57.5		365	805
R11i TAS+	118	11.0	15.0	56.1		365	805
R11i TAS+	138	11.0	15.0	50.4		365	805
R11i TAS+	193	11	15.0	41.5		365	805

n Ingersoll Rand Variable Speed TAS – 60 Hz Performance								
	Max. Pressure	Nominal Power		Capacity (FAD) @ 100 psi	Dimensions (Length x Width x Height)		Weight (Air-cooled)	
Model	psig	kW	hp	cfm	mm	in	kg	lb
R5.5n	65-145	5.5	7.5	13.6-32.1	960 x 690 x 1,186.5	38 x 27 x 47	285	628
R7.5n	65-145	7.5	10.0	14.7-41.7	960 x 690 x 1,186.5	38 x 27 x 47	285	628
R11n	65-145	11.0	15.0	13.9-59.8	960 x 690 x 1,186.5	38 x 27 x 47	305	672
R5.5n TAS+	65-135	5.5	7.5	13.6-32.1	1,156 x 690 x 1,186.5	46 x 27x47	350	772
R7.5n TAS+	65-135	7.5	10.0	14.7-41.7	1,156 x 690 x 1,186.5	46 x 27x47	350	772
R11n TAS+	65-135	11.0	15.0	13.9-59.8	1,156 x 690 x 1,186.5	46 x 27x47	375	827

	Length mm		Width		Height		Additional Mass	
Receiver Tank	mm	in	mm	in	mm	in	kg	lb
80 gal tank-mounted version	1,783	70	690	27	1,704	67	120	264.5
120 gal tank-mounted version	1,897	75	690	27	1,832	72	142	313.0

*FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C and is measured at 10 psi lower than maximum pressure on non-TAS units and at maximum pressure on TAS equipped units.

+TAS units deliver ISO Class 1-5-1 quality air measured at steady state conditions in accordance with ISO 8573-1:2001 that dictates inlet air to package of 25°C (77°F) and relative humidity of 60%.

Your Trusted Partner in Compressed Air

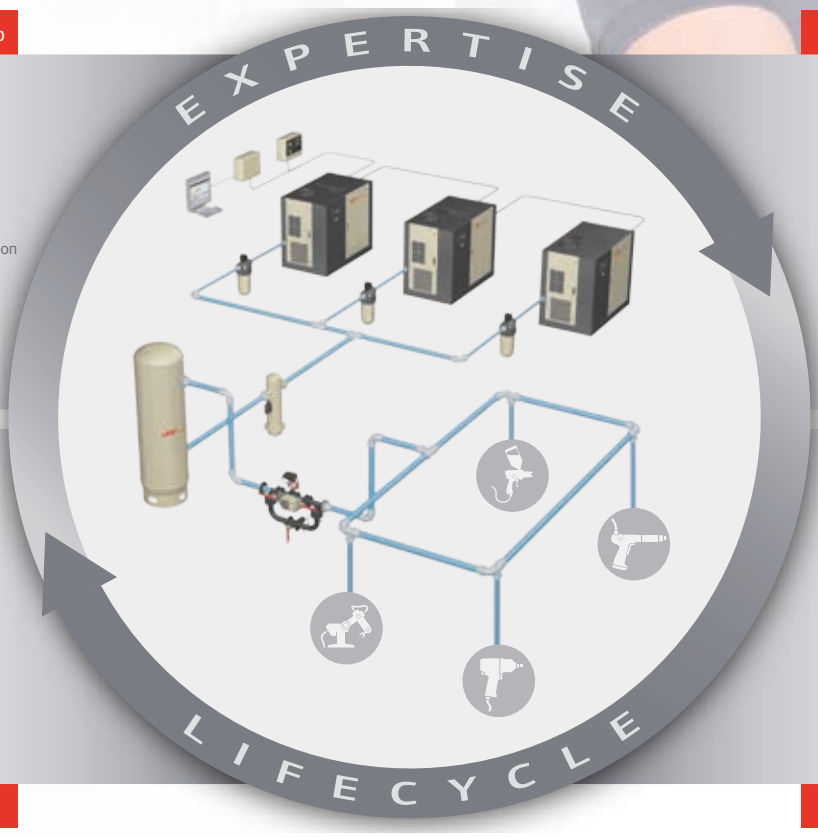
Optimize your total **Cost** of ownership, while maximizing **Availability**, **Reliability** and **Efficiency** throughout the life of your compressed air system with our Lifecycle CARE services.

total Cost of ownership

- Lifecycle cost planning
- System application & configuration
- System design and engineering
- Fixed-cost service agreements
- Risk transfer

Availability

- Global technical support
- Comprehensive services
- 24/7 service availability
- Factory-certified technicians
- Rental solutions



Efficiency

- System optimization
- Advanced system control
- Air distribution configurations
- Performance upgrades
- System leak assessments

Reliability

- System health monitoring
- Genuine replacement parts
- System assessments
- Service technology tools
- System risk analysis

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.

PackageCARE™

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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