

# Rotary Screw Compressors

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

Fixed and Variable Speed Drives

## Compact Performance Where You Need It

The affordable Ingersoll Rand R-Series 5-11 kW compressor extends the R-Series family into the commercial machine range as well as offers innovative features and a compact design that fits virtually any application environment.



### Fit-Anywhere Footprint

The vertically-stacked internal components reduce the basic compressor footprint by 20% compared to previous models for both the base and integrated dryer versions.

### A Legacy of Engineered Reliability

Ingersoll Rand has taken the best features from the current R-Series family to deliver the same great performance in the 5-11 kW range. Improved innovations such as a leak-free, next-generation airend, improved seals and a reduced number of components continue to extend our legacy of reliability.

### Convenient, Programmable Control

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



The Xe-50 (fixed speed) and Xe-70 (variable speed) controllers feature an easy-to-use interface with a high-resolution color display

# Proven Reliability. Robust Design.

The R-Series 5-11 kW family of compressors delivers optimum performance and easier maintenance, all in a robust, innovative package.



Vertically-stacked drive components reduce overall footprint by 20%.

## Compact Productivity

- **Vertically-stacked drive components** with air end mounted above the main motor reduce overall footprint, improve balance and simplify belt tensioning
- **Extended life consumables to 2,000 hours** reduces frequency of servicing
- **Common platform** accommodates fixed speed and variable speed drives (VSD) in same footprint
- **Quiet operation (69 dB(A))** complements the small footprint for installation and operation within limited workspaces

## Reliable, Precise Operation

- **New airend with integrated separation system** improves air/oil separation (<5 ppm) for peak air quality
- **Improved seals and fewer components** reduce the potential for leaks and increase reliability
- **Plug-in Danfoss drive** eliminates overheating and related component failures
- **IE3 energy-efficient fixed and variable speed motors** support continuous operation up to 46°C (115°F)
- **Improved cooler** design minimizes thermal expansion effects



The all-in-one CE55X airend features improved air/oil separation and reliability.

# Convenient Choices for a Complete Air Solution

## TAS – The Total Package

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

- **High-efficiency filter and integrated dryer** deliver ISO 1-5-1 quality air up to 38°C (100°F)
- **Patented 3-in-1 heat exchanger** provides increased reliability and efficiency
- **Minimized installation costs**, single-point maintenance and monitoring
- **Environmentally friendly R407C refrigerant** provides class-leading low global warming potential index



### TAS (Total Air System)

- A** Patented 3-in-1 heat exchanger
- B** High-efficiency filters
- C** Condenser

- D** R407C refrigerant
- E** Cyclon water separator

Features Description	Fixed Speed	Variable Speed
Xe-Series 50 Controller	●	
Xe-Series 70 Controller	○	●
Xe-Series 70 controller with ECO module (United States only)		○
Total Air System (TAS) with integrated dryer	○	○
Power outage restart	○	○
Frost protection	○	
Residential filter		○
Outdoor modification enclosure	○	
Ultra FG or Ultra EL coolant	○	○
Hi-dust air filter	○	
Low voltage	○	○
Vibration Isolation System	●	●
Receiver tank size		
272/500 liter (Europe)	○	○
80/120 gallon (United States)	○	○

● Standard Feature ○ Optional Feature “Blank” Not Available

Ingersoll Rand – 50/60 Hz Performance										
Model	Max. Pressure		Nominal Power		Capacity (FAD)*		Dimensions (Length x Width x Height)		Weight (Air-cooled)	
	bar g	psig	kW	hp	m <sup>3</sup> /min	cfm	mm	in	kg	lb
R4i (US only)	7.5	110	4	5	0.55	19.4	960x690x1186.5	38x27x47	280/345	617/761
R4i TAS† (US only)	8.5	125	4	5	0.48	17.0	1156x690x1186.5	46x27x47	280/345	617/761
	10.0	145	4	5	0.40	14.3	1156x690x1186.5	46x27x47	280/345	617/761
R5.5i	7.5	110	5.5	7.5	0.85	30.5	960x690x1186.5	38x27x47	280/345	617/761
R5.5i TAS†	8.5	125	5.5	7.5	0.81	28.0	1156x690x1186.5	46x27x47	280/345	617/761
	10.0	145	5.5	7.5	0.72	25.0	1156x690x1186.5	46x27x47	280/345	617/761
	14.0	200	5.5	7.5	0.48	17.0	1156x690x1186.5	46x27x47	280/345	617/761
R7.5i	7.5	110	7.5	10	1.13	40.0	960x690x1186.5	38x27x47	280/345	617/761
R7.5i TAS†	8.5	125	7.5	10	1.08	37.0	1156x690x1186.5	46x27x47	280/345	617/761
	10.0	145	7.5	10	0.96	33.0	1156x690x1186.5	46x27x47	280/345	617/761
	14.0	200	7.5	10	0.70	25.0	1156x690x1186.5	46x27x47	280/345	617/761
R11i	7.5	110	11	15	1.63	57.0	960x690x1186.5	38x27x47	295/365	650/805
R11i TAS†	8.5	125	11	15	1.60	54.0	1156x690x1186.5	46x27x47	295/365	650/805
	10.0	145	11	15	1.42	50.0	1156x690x1186.5	46x27x47	295/365	650/805
	14.0	200	11	15	1.13	41.0	1156x690x1186.5	46x27x47	295/365	650/805

Ingersoll Rand Nirvana – 50/60 Hz Performance										
Model	Max. Pressure		Nominal Power		Capacity (FAD) @ 10 barg		Dimensions (Length x Width x Height)		Weight (Air-cooled)	
	bar g	psig	kW	hp	m <sup>3</sup> /min	cfm	mm	in	kg	lb
R5.5n	4.5-10	65-145	5.5	7.5	0.22 - 0.72	8.1 - 25.5	960x690x1186.5	38x27x47	285	628
R7.5n	4.5-10	65-145	7.5	10	0.33 - 0.98	11.7 - 34.7	960x690x1186.5	38x27x47	285	628
R11n	4.5-10	65-145	11	15	0.50 - 1.44	18.4 - 52.0	960x690x1186.5	38x27x47	305	672
R5.5n TAS†	4.5-9.5	65-135	5.5	7.5	0.22 - 0.72	8.1 - 25.5	960x690x1186.5	38x27x47	350	772
R7.5n TAS†	4.5-9.5	65-135	7.5	10	0.33 - 0.98	11.7 - 34.7	960x690x1186.5	38x27x47	350	772
R11n TAS†	4.5-9.5	65-135	11	15	0.50 - 1.44	18.4 - 52.0	960x690x1186.5	38x27x47	375	827

Receiver Tank	Length mm		Width		Height		Additional Mass			
	mm	in	mm	in	mm	in	kg	lb		
Europe	272 l Tank-mounted Version		1599	63.0	690	27.0	1,704	67.0	120	264.5
	500 l Tank-mounted Version		2021	79.5	690	27.0	1,832	72.0	170	375.0
United States	80 gal Tank-mounted Version		1783	70.0	690	27.0	1,704	67.0	120	264.5
	120 gal Tank-mounted Version		1897	75.0	690	27.0	1,832	72.0	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 .5 bar/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%.



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