

# Oil-Flooded Rotary Screw Air Compressors

R-Series 45-75 kW (60-100 hp) 60 Hz

Ingersoll Rand R-Series compressors offer the best of time-proven designs and technologies with advanced features to ensure the highest levels of reliability, efficiency and productivity.



- **Progressive Adaptive Control (PAC™) protection** continuously monitors key operating parameters and adapts to prevent unexpected downtime
- **V-Shield™ technology** provides a totally integrated, leak-free design

- **Sequential cooling system** significantly improves efficiency, serviceability and noise level
- **Time-proven airends** provide market-leading efficiency and reliability
- **Trouble-free operation** ensures increased uptime with features such as two-stage filtration, easy maintenance and extended life Ingersoll Rand premium grade coolant
- **The Xe-Series controller** features an intuitive high resolution color display with Web-enabled communication and control
- **The optional R-Series Total Air System (TAS)** provides clean, dry air in a single package that minimizes installation costs and space



Xe-145M option shown

Standard features include:	Optional features include:
Xe-90M controller with 90 mm screen	Xe-145 controller with 145 mm screen
Progressive Adaptive Control (PAC™) protection	Flow control by inlet modulation
Air-cooled sequential cooling system	Extreme low ambient protection to -23°C (-10°F)* & frost protection to -10°C (14°F)
V-Shield™ technology	High ambient protection up to 55°C (131°F)
Ergonomic swing-out lid on the separator tank	Premium high dust filtration
Noise attenuation enclosure	Fluid containment system
Package pre-filtration	Web-based graphing and trending
Long-life filtration and separation elements	Email notification of warnings and trips
12-month full package warranty	Energy Recovery System (ERS)
	Outdoor modification/rain protection
	Total Air System (TAS)

\*Available in North America only

**i Ingersoll Rand Standard – 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
R45ie	7.5	110	45	60	8.20	290	2,432 x 1,265 x 2,032	96 x 50 x 80	1,603	3,533
	8.5	125	45	60	7.50	265	2,432 x 1,265 x 2,032	96 x 50 x 80	1,603	3,533
	10.0	145	45	60	6.80	240	2,432 x 1,265 x 2,032	96 x 50 x 80	1,603	3,533
R55i	7.5	110	55	75	10.22	361	2,432 x 1,265 x 2,032	96 x 50 x 80	1,603	3,533
	8.5	125	55	75	9.29	328	2,432 x 1,265 x 2,032	96 x 50 x 80	1,603	3,533
	10.0	145	55	75	8.49	300	2,432 x 1,265 x 2,032	96 x 50 x 80	1,603	3,533
	14.0	200	55	75	6.46	228	2,432 x 1,265 x 2,032	96 x 50 x 80	1,603	3,533
R75i	7.5	110	75	100	13.54	478	2,432 x 1,265 x 2,032	96 x 50 x 80	1,718	3,787
	8.5	125	75	100	12.88	455	2,432 x 1,265 x 2,032	96 x 50 x 80	1,718	3,787
	10.0	145	75	100	11.84	418	2,432 x 1,265 x 2,032	96 x 50 x 80	1,718	3,787
	14.0	200	75	100	9.40	332	2,432 x 1,265 x 2,032	96 x 50 x 80	1,718	3,787

**i Ingersoll Rand† Total Air System (TAS) – 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
R45ie TAS	7.0	103	45	60	8.20	290	2,432 x 1,265 x 2,032	96 x 50 x 80	1,753	3,864
	8.0	118	45	60	7.50	265	2,432 x 1,265 x 2,032	96 x 50 x 80	1,753	3,864
	9.5	138	45	60	6.80	240	2,432 x 1,265 x 2,032	96 x 50 x 80	1,753	3,864
R55i TAS	7.0	103	55	75	10.22	361	2,432 x 1,265 x 2,032	96 x 50 x 80	1,753	3,864
	8.0	118	55	75	9.29	328	2,432 x 1,265 x 2,032	96 x 50 x 80	1,753	3,864
	9.5	138	55	75	8.49	300	2,432 x 1,265 x 2,032	96 x 50 x 80	1,753	3,864
	13.5	193	55	75	6.46	228	2,432 x 1,265 x 2,032	96 x 50 x 80	1,753	3,864
R75i TAS	7.0	103	75	100	13.54	478	2,432 x 1,265 x 2,032	96 x 50 x 80	1,868	4,118
	8.0	118	75	100	12.88	455	2,432 x 1,265 x 2,032	96 x 50 x 80	1,868	4,118
	9.5	138	75	100	11.84	418	2,432 x 1,265 x 2,032	96 x 50 x 80	1,868	4,118
	13.5	193	75	100	9.40	332	2,432 x 1,265 x 2,032	96 x 50 x 80	1,868	4,118

**n Ingersoll Rand Nirvana Standard – 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
R55n	4.5-10.0	65-145	55	75	3.23-10.53	114-372	2,432 x 1,265 x 2,032	96 x 50 x 80	1,420	3,131
R75n	4.5-10.0	65-145	75	100	3.23-13.56	114-479	2,432 x 1,265 x 2,032	96 x 50 x 80	1,420	3,131

**n Ingersoll Rand Nirvana† Total Air System (TAS) – 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
R55n TAS	4.5-9.5	65-135	55	75	3.23-10.11	114-357	2,432 x 1,265 x 2,032	96 x 50 x 80	1,570	3,462
R75n TAS	4.5-9.5	65-135	75	100	3.23-12.95	114-457	2,432 x 1,265 x 2,032	96 x 50 x 80	1,570	3,462

\*FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217:2009 Annex C and is measured at 0.5 bar g/10 psig lower than maximum pressure on non-TAS units and 3 psig lower than maximum on TAS-equipped units.

\*\*FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217:2009 Annex C and capacity range is measured at 7 bar g/100 psig.

†TAS units deliver ISO Class 1-4-2 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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