

# Contact-Cooled Rotary Screw Air Compressors

R-Series 37-45 kW (50-60 hp) 50 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



Xe-145M option shown

- **The Optional R-Series Total Air System (TAS)** provides clean, dry air in a single package that minimises installation costs and space

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	Frost protection to -10°C (14°F)
V-Shield technology	High ambient protection up to 55°C (131°F)
Noise attenuation enclosure	Premium high dust filtration
Package pre-filtration	Fluid containment system
Long-life filtration and separation elements	Web-based graphing and trending
12-month full package warranty	Email notification of warnings and trips
	Energy Recovery System (ERS)
	Outdoor modification/rain protection
	Total Air System (TAS)



Ingersoll Rand Standard – 50 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
R37ie	7.5	110	37	50	6.46	228	1,947x1,114x1,607	77x44x63	1,004	2,213
	8.5	125	37	50	6.20	219	1,947x1,114x1,607	77x44x63	1,004	2,213
	10.0	145	37	50	5.72	202	1,947x1,114x1,607	77x44x63	1,004	2,213
	14.0	200	37	50	4.80	169	1,947x1,114x1,607	77x44x63	1,004	2,213
R45i	7.5	110	45	60	7.59	268	1,947x1,114x1,607	77x44x63	1,039	2,291
	8.5	125	45	60	7.28	257	1,947x1,114x1,607	77x44x63	1,039	2,291
	10.0	145	45	60	6.71	237	1,947x1,114x1,607	77x44x63	1,039	2,291
	14.0	200	45	60	5.80	205	1,947x1,114x1,607	77x44x63	1,039	2,291

Ingersoll Rand* Total Air System (TAS) – 50 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
R37ie TAS	7.5	110	37	50	6.46	228	1,947x1,114x1,635	77x44x64	1,094	2,411
	8.5	125	37	50	6.20	219	1,947x1,114x1,635	77x44x64	1,094	2,411
	10.0	145	37	50	5.72	202	1,947x1,114x1,635	77x44x64	1,094	2,411
	14.0	200	37	50	4.80	169	1,947x1,114x1,635	77x44x64	1,094	2,411
R45i TAS	7.5	110	45	60	7.59	268	1,947x1,114x1,635	77x44x64	1,129	2,490
	8.5	125	45	60	7.28	257	1,947x1,114x1,635	77x44x64	1,129	2,490
	10.0	145	45	60	6.71	237	1,947x1,114x1,635	77x44x64	1,129	2,490
	14.0	200	45	60	5.80	205	1,947x1,114x1,635	77x44x64	1,129	2,490

Ingersoll Rand Nirvana Standard – 50 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
R37ne	4.5-10	65-145	37	50	5.83-6.63	206-234	1,947x1,114x1,607	77x44x63	776	1,711
R45n	4.5-10	65-145	45	60	6.46-7.42	228-262	1,947x1,114x1,607	77x44x63	776	1,711

Ingersoll Rand Nirvana* Total Air System (TAS) – 50 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
R37ne TAS	4.5-10	65-135	37	50	5.68-6.36	203-227	1,947x1,114x1,635	77x44x64	926	2,041
R45n TAS	4.5-10	65-135	45	60	6.46-7.39	228-261	1,947x1,114x1,635	77x44x64	926	2,041

\*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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