

# Contact-Cooled Rotary Screw Air Compressors

R-Series 90-160 kW/125-200 hp

Reliability

Efficiency

Productivity

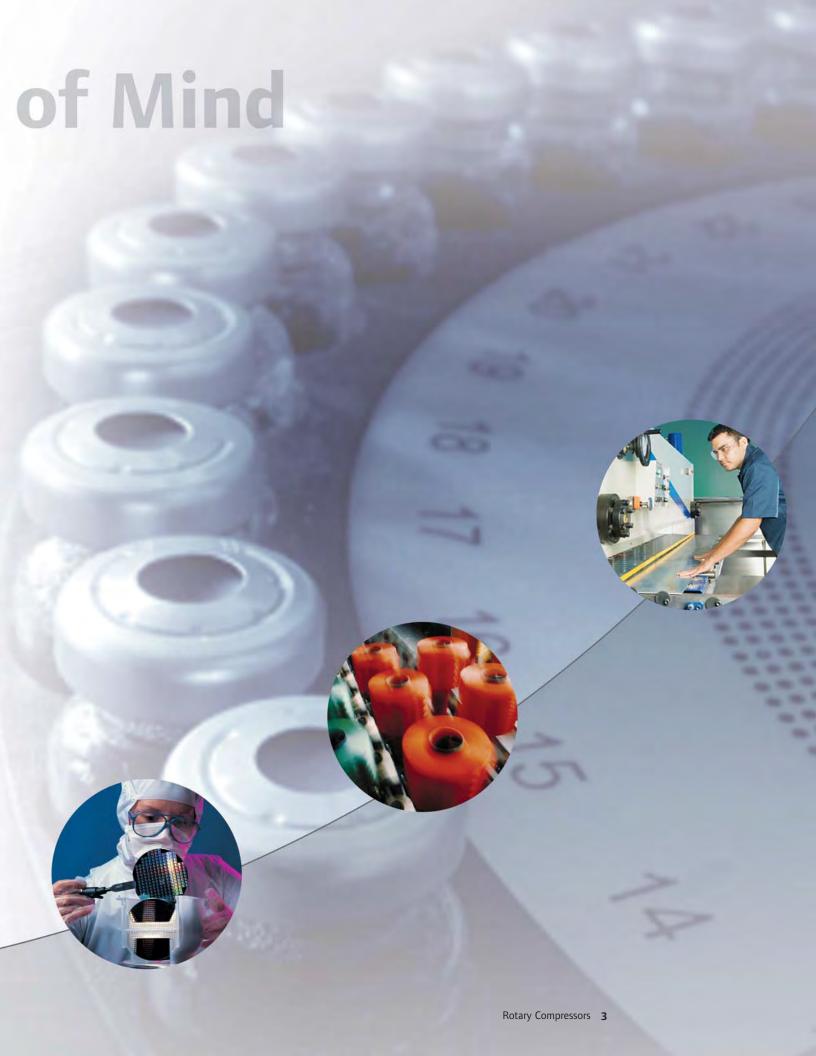


## More Than Air, Peace

Ingersoll Rand is well into its second century of building our legacy as a **trusted** global leader by delivering the **innovative** solutions and **expertise** our customers require. We continue to advance compressed air technology and service to maximize reliability, efficiency and productivity for our customers.

We not only provide world-class products and support, but the peace of mind that comes from our commitment to stand behind our customers in all aspects of what we do. That peace of mind allows our customers to focus on their primary objective: moving their businesses forward.





## A New Level of Reliability, Efficiency and

R-Series 90-160 kW/125-200 hp rotary screw air compressors offer the very best of time-proven designs and technologies with new, advanced features that ensure the highest levels of reliability, efficiency and productivity available.

## **Progressive Adaptive Control™ – PAC™** Protection

An integrated, intelligent system that continuously monitors key operating parameters and adapts to prevent unexpected downtime.

- Scans and adjusts operating parameters in response to changes in filtration.
- Ensures peak performance through real-time electronic maintenance indicators.
- Optimizes energy consumption and reduces noise level by adapting fan speed based on ambient temperature.
- Increases bearing life by eliminating any chance of water build-up in the coolant.
- Improves productivity by proactively monitoring and conditioning incoming power.

#### V-Shield™ Technology

A totally integrated, leak-free design using stainless steel pipes and long-life metal-flex hoses.

- Superior elastomeric seals for repeatable leak-free connections.
- Reduced downstream contamination with stainless steel air piping.
- Vibration isolation system and metal-flex hoses extend compressor life and reduce noise.
- Significantly reduced potential leak paths.

## **Sequential Cooling System**

Significantly improves efficiency, serviceability and noise level.

- Low energy consumption and quiet operation with an energy-efficient centrifugal blower.
- Significantly reduces the energy required to remove harmful condensate in downstream air treatment by lowering discharge temperatures to as low as 2.2°C (4°F) above ambient.
- Integrated moisture separator delivers higher quality air by decreasing harmful condensate carryover, while electronic no-loss drain valves improve efficiency.
- Independently-mounted, free-floating air and coolant heat exchangers extend life by reducing thermal stresses.
- Available for operation in extreme environments up to 55°C (131°F).

#### **Intuitive Controller**

- Easily adjustable operating parameters, on-board diagnostics, multiple languages.
- Built-in optimization sequencing for up to four compressors.

See Features Chart (page 8) for availability by model.



## **Productivity**



## **Time-Proven Quality Airends**

At the heart of our compressors are rugged, roller bearing-equipped airends, engineered for exceptional reliability.



### **Trouble-Free Operation**

Ingersoll Rand provides many more ways to ensure your operation remains productive while providing the lowest cost of ownership.

- Increased uptime, reduced maintenance and improved performance with our unique two-stage filtration, extended filtration life, superior synthetic Ultra Coolant™ and on-board, time-saving diagnostics.
- High-quality air delivered through highefficiency coolant separation allows as little as 2 ppm carryover.

- Safe, easy maintenance performed on one side via removable hinged doors, swing out separator lid and easy-slide heat exchangers.
- Minimized installation costs and complexity with single cooling air inlet and outlet, and easy exhaust heat management for lower utility costs.
- Easy-to-use operator interface in 23 languages with electronic controller designed for harsh environments.

## R-Series Compressors: Innovative Design,

Ingersoll Rand rotary compressors provide superior operating features, benefits and equipment choices.

Mix and match variable and fixed speed motors with single- and two-stage airends for the exact level of performance and economy your operation and your budget require.



## **Efficiency for Variable Demand**



Maintenance-free, bearingless motor design

Fewer rotating parts — no pulleys, belts or couplings to wear out

#### Nirvana Variable Speed Drive (VSD) Compressors

Ingersoll Rand VSD compressors maximize the full potential of variable speed technology. Only Ingersoll Rand's Nirvana VSD technology with the Hybrid Permanent Magnet® (HPM®) motor—the highest efficiency motor available—gives you all this:

- Unlimited starts/stops.
- Shuts off rather than run unloaded, conserving energy.
- Rated for continuous duty 100% load, 24/7, 46°C (115°F) — to reduce downtime and lost production.
- Stable, constant pressure control.

- Smooth soft-starting starting amps always below full load.
- Virtually no degradation in specific power at partial load.
- Variable speed blower allows the compressor to run at a constant discharge temperature.
- Automatic coolant temperature control to eliminate moisture build up.



## **Efficiency for Constant Demand**

#### **Fixed Speed Compressors**

Ingersoll Rand R-Series fixed speed compressors are the most reliable and energy-efficient solution for processes with constant demand.

- The compressors can be outfitted for continuous and reliable operation in the harshest conditions, even outdoors in rain and dust, from -23°C (-10°F) up to 55°C (131°F).
- Clean compressor package design with fewer components that need servicing.



Continuous duty high-performance TEFC induction motor

- NEMA 4/IP65 electric panels.
- High-efficiency, quiet centrifugal blower.
- · Voltage and frequency fluctuation protection.

## Flexible Choice

**Highest Efficiency Airends** 



**Deliver up to 15% more air** than a single-stage compressor while consuming the same amount of energy.

#### **Premium Efficiency and Performance: Two-Stage Airends**

Ingersoll Rand's premium efficiency compressors deliver reliability through our unique two-stage airends, renowned for trouble-free operation and low energy consumption.

- Efficiency and durability through low compression ratio in each stage.
- · Reduced bearing loads.
- · Increased airend life.
- · Minimal maintenance.
- Coolant curtain reduces energy consumption by injecting atomized oil into the compressed air stream, significantly lowering the energy required for compression.

## **Time-Proven Reliable Airends**

#### **Single-Stage Airends**

Used in compressors worldwide, Ingersoll Rand single-stage airends have proven to be the market leader in both reliability and efficiency.



- · Precision machined rotors.
- Highest quality tapered roller bearings.
- All coolant flow paths are integral to the cast housing, eliminating potential leak paths.
- Ideal wherever budgets are limited, but the need for performance is not.

## The Decision is Yours

The following four optimized, energy-efficient packages deliver the combination of performance and value that best fits your specific needs. At Ingersoll Rand, it's all about value...and choice!

**Nirvana VSD**PREMIUM EFFICIENCY

Variable speed with two-stage airend

Nirvana VSD EFFICIENCY

Variable speed with single-stage airend

ie Premium

Fixed speed with two-stage airend

Fixed speed with single-stage airend

R110<sup>ne</sup>
Nirvana VSD
PREMIUM EFFICIENCY

Applying technology to help our customers achieve their sustainability goals.



Category	Description	Fixed	Speed	Nirvan	a VSD
			ie		ne
irend	Premium two-stage airend		•		•
	Time-proven single-stage airend	•		•	
ontroller	Energy-saving microprocessor controller easy to operate in 23 languages	•	•	•	•
	Programmable start/stop operation and remote connectivity	•	•	•	•
	Built-in optimization sequencer for up to 4 units	•	•		
	Built-in energy savings calculator			•	•
AC™ Protection	Scans and adjusts operating parameters in response to filtration changes	•	•	•	•
	Real-time electronic maintenance indicators and shutdown protection	•	•	•	•
	Blower speed adaptable to ambient temperature			•	•
	Automatic coolant temperature control to eliminate moisture build-up			•	•
	Integrated line reactor in compliance with industrial EMC standards			•	•
ooling System	Air-cooled sequential cooling system optimized for efficiency & serviceability	•	•	•	•
	Energy-efficient and low noise centrifugal blower	•	•	•	•
	Generous package cooling system rated for 46°C (115°F) ambient	•	•	•	•
	Moisture separator	•	•	•	•
	Electronic no-loss condensate drains	0	•	•	•
-Shield™ Technology	Stainless steel air piping	•	•	•	•
	Vibration isolation pads and premium metal-flex hoses	•	•	•	•
	Repeatable leak-free connections with superior elastomeric seals	•	•	•	•
ervices	Ergonomic swing-out lid on the separator tank	•	•	•	•
	Simple ducting (single air inlet and single air outlet)	•	•	•	•
	12-month full package warranty	•	•	•	•
Auxiliary Systems	Noise attenuation enclosure	•	•	•	•
	Package pre-filtration	•	•	•	•
	Long-life filtration and separation elements	•	•	•	•
	8,000-hour life Ultra Coolant™	•	•	•	•
	Flow control by variable speed technology			•	•
	Flow control by full load/no load regulation system	•	•		
lotors &	Control panel protection, NEMA 4/IP65 electrics	•	•		
lectrical Systems	Star-delta reduced voltage starter	•	•		
<b></b>	High-efficiency TEFC IP55 motors - Class F insulation with B rise	•	•		
	Hybrid Permanent Magnet® (HPM®) motor				•
	Control panel protection NEMA 12/IP54				•
	Variable speed drive on main motor & centrifugal blower motor				
optional Feature	<u> </u>				
puonai reature					
leather Protection	Outdoor modification/rain protection	0	0		
	Frost protection to -10°C (14°F)	0	0		
	Extreme low ambient protection to -23°C (-10°F)*	0	0		
	High ambient protection up to 55°C (131°F)	0	0		
	Premium high dust filtration	0	0		
	Motor space heater	0	0		
	Water cooling	0	0	0	О
	Sea water and harsh water cooling	0	0	0	О
nvironmental	Energy Recovery System (ERS)	0	0	0	C
	Fluid containment system	0	0	0	О
	Food grade coolant and X-tend filtration system	0	0	0	С
ower Protection	Power Outage Restart Option (PORO)	0	0	0	О
	Safety switch disconnects	0	0	0	С
	Phase monitor (protection)	0	0	•	•
	Electronic solid state reduced voltage starter	0	0		
neral Options	Flow control by inlet modulation control	0	0		
	Comprehensive service and coverage plan	0	0	0	0

Make   Pressure   Nominal Power   Robert   Capacity (FAD)*   Dimensions (LWW.h)   Weight (Air-Cooled)	i	Ingers	oll Rand S	tandard -	- 50 Hz I	Performance					
R90  7.5   110   90   125   16.71   590   2.703x1,466x2,032   106x58x80   2,420   5,335	Model										
R5   125   90   125   14.02   495   27.038.1,466x2.032   106x588480   2.420   5.335     14.0   200   90   125   14.02   495   27.038.1,466x2.032   106x588480   2.420   5.335     14.0   200   90   125   10.25   362   2.7038.1,466x2.032   106x588480   2.420   5.335     18.5   125   110   150   19.20   678   2.7038.1,466x2.032   106x588480   2.420   5.335     18.5   125   110   150   19.20   678   2.7038.1,466x2.032   106x588480   2.550   5.620     18.0   145   110   150   13.76   486   2.7038.1,466x2.032   106x588480   2.550   5.620     14.0   200   110   150   13.76   486   2.7038.1,466x2.032   106x588480   2.550   5.620     18.5   125   132   175   23.33   845   2.8558.1,8366x2.032   112x72x880   2.936   6.450     8.5   125   132   175   23.33   845   2.8558.1,8366x2.032   112x72x880   2.936   6.450     8.5   125   132   175   23.33   845   2.8558.1,8366x2.032   112x72x880   2.936   6.450     10			•		•	•					
10.0   145   90   25   14.02   495   2,703x1,466x2,032   106x58x80   2,420   5,335	K90i										,
14.0   200   90   25   10.25   362   2,703x1,466x2,032   106x58x80   2,420   5,335   5,50   10.0   145   110   150   19.20   678   2,703x1,466x2,032   106x58x80   2,550   5,520   10.0   145   110   150   19.20   678   2,703x1,466x2,032   106x58x80   2,550   5,520   10.0   145   110   150   13.76   486   2,703x1,466x2,032   106x58x80   2,550   5,520   12.0											
Ref   10										<u> </u>	
R.S.   125	R110i									•	
10.0	111101										
14.0   20.0   11.0   15.0   13.76   486   2,703x   466x2,032   112x72x80   2,550   5,620											
R1321		14.0		110							
10	R132i	7.5	110	132	175	25.20	890				
R160    7.5   110   160   200   29.45   1,040   2,855x1,836x2,032   112x72x80   2,926   6,450		8.5	125	132	175	23.93	845				
R160  7.5		10	145	132		21.10	745	2,855x1,836x2,032	112x72x80	2,926	6,450
R.5   125   160   200   29.02   1,025   2,855x   3,836x   2,032   112x   72x80   2,926   6,450		14	200	132		17.53	619	2,855x1,836x2,032		2,926	6,450
10	R160i			160			1,040	2,855x1,836x2,032	112x72x80	·	
Max. Pressure		8.5		160			•		112x72x80		
Max. Pressure		10									
Max. Pressure   Nominal Power   Capacity (FAD)*   Dimensions (LxWxH)   Kg   Ib		14	200	160	200	20.50	724	2,855x1,836x2,032	112x72x80	2,926	6,450
Regoin   R	ie	Ingers	oll Rand F	Premium –	50 Hz F	Performance					
R90ie   7.5   110   90   125   18.01   636   2.855x1,836x2,032   112x72x80   2.744   6.050     R5   125   90   125   17.50   618   2.855x1,836x2,032   112x72x80   2.744   6.050     10.0   145   90   125   15.43   545   2.855x1,836x2,032   112x72x80   2.744   6.050     14.0   200   90   125   13.03   460   2.855x1,836x2,032   112x72x80   2.744   6.050     R110ie   7.5   110   110   150   22.09   780   2.855x1,836x2,032   112x72x80   2.744   6.050     R5   125   110   150   20.39   720   2.855x1,836x2,032   112x72x80   2.744   6.050     R10.0   145   110   150   18.89   667   2.855x1,836x2,032   112x72x80   2.744   6.050     R132ie   7.5   110   132   175   26.19   925   2.855x1,836x2,032   112x72x80   2.744   6.050     R132ie   7.5   110   132   175   25.34   895   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   110   160   200   31.09   1.988   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   110   160   200   31.09   1.098   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   110   160   200   30.30   1,070   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   110   160   200   30.30   1,070   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   110   160   200   27.21   961   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   110   160   200   27.21   961   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   110   160   200   27.21   961   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   160   200   27.21   961   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   160   200   27.21   961   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   160   200   27.21   961   2.855x1,836x2,032   112x72x80   3.198   7.050     R160ie   7.5   160   200   27.21   961   2.855x1,836x2,032   112x72x80   3.198   7.050     R170ie   4.5-10   65-145   10   150   8.47-21.66   299-765   2.703x1,466x2,032   106x58x80   2.060   4.540     R180ie   4.5-10   65-145   10   10   50   8.86-23   313-8		Max. F	Pressure	Nomina		Capacity		Dimensions (L	xWxH)		ir-Cooled)
8.5   125   90   125   17.50   618   2,855x1,836x2,032   112x72x80   2,744   6,050     10.0   145   90   125   15.43   545   2,855x1,836x2,032   112x72x80   2,744   6,050     14.0   200   90   125   13.03   460   2,855x1,836x2,032   112x72x80   2,744   6,050     R110ie   7.5   110   110   150   22.09   780   2,855x1,836x2,032   112x72x80   2,744   6,050     8.5   125   110   150   20.39   720   2,855x1,836x2,032   112x72x80   2,744   6,050     10.0   145   110   150   18.89   667   2,855x1,836x2,032   112x72x80   2,744   6,050     14.0   200   110   150   15.40   544   2,855x1,836x2,032   112x72x80   2,744   6,050     R132ie   7.5   110   132   175   26.19   925   2,855x1,836x2,032   112x72x80   2,744   6,050     8.5   125   132   175   25.34   895   2,855x1,836x2,032   112x72x80   3,198   7,050     10	Model	bar g	psig	kW	hp	m³/min	cfm	mm	in	kg	lb
10.0	R90ie	7.5	110	90	125	18.01	636	2,855x1,836x2,032	112x72x80	2,744	6,050
R110ie		8.5	125	90	125	17.50	618	2,855x1,836x2,032	112x72x80	2,744	6,050
R110ie   7.5   110   110   150   22.09   780   2,855x1,836x2,032   112x72x80   2,744   6,050     R5   125   110   150   20.39   720   2,855x1,836x2,032   112x72x80   2,744   6,050     R130   145   110   150   18.89   667   2,855x1,836x2,032   112x72x80   2,744   6,050     R140   200   110   150   15.40   544   2,855x1,836x2,032   112x72x80   2,744   6,050     R132ie   7.5   110   132   175   26.19   925   2,855x1,836x2,032   112x72x80   3,198   7,050     R132ie   7.5   110   132   175   25.34   895   2,855x1,836x2,032   112x72x80   3,198   7,050     R150   145   132   175   22.79   805   2,855x1,836x2,032   112x72x80   3,198   7,050     R160   7.5   110   160   200   31.09   1,098   2,855x1,836x2,032   112x72x80   3,198   7,050     R160   7.5   110   160   200   30.30   1,070   2,855x1,836x2,032   112x72x80   3,198   7,050     R160   8.5   125   160   200   30.30   1,070   2,855x1,836x2,032   112x72x80   3,198   7,050     R160   145   160   200   27.21   961   2,855x1,836x2,032   112x72x80   3,198   7,050     R160   145   160   200   27.21   961   2,855x1,836x2,032   112x72x80   3,198   7,050     R160		10.0	145	90		15.43	545	2,855x1,836x2,032	112x72x80	2,744	6,050
R.5		14.0	200	90		13.03		2,855x1,836x2,032	112x72x80		6,050
10.0	R110ie	7.5		110		22.09		2,855x1,836x2,032		2,744	•
14.0   200											
R132ie											
R.5	D1221										•
10	R132ie										
R160ie   7.5   110   160   200   31.09   1,098   2,855x1,836x2,032   112x72x80   3,198   7,050											
R160ie   7.5   110   160   200   31.09   1,098   2,855x1,836x2,032   112x72x80   3,198   7,050     8.5   125   160   200   30.30   1,070   2,855x1,836x2,032   112x72x80   3,198   7,050     10											
8.5         125         160         200         30.30         1,070         2,855x1,836x2,032         112x72x80         3,198         7,050           10         145         160         200         27.21         961         2,855x1,836x2,032         112x72x80         3,198         7,050           14         200         160         200         21.95         775         2,855x1,836x2,032         112x72x80         3,198         7,050           Model         bar g psig         kW hp         m³/min cfm         Dimensions (LxWxH)         Weight (Air-Cooled)           R90n         4.5-10 65-145         90         125         8.47-17.95         299-634         2,703x1,466x2,032         106x58x80         2,060         4,540           R110n         4.5-10 65-145         110         150         8.47-21.66         299-765         2,703x1,466x2,032         106x58x80         2,060         4,540           R132n         4.5-10 65-145         110         150         8.47-24.44         299-863         2,855x1,836x2,032         112x72x80         2,363         5,210           R160n         4.5-10 65-145         160         200         8.47-28.88         299-1,020         2,855x1,836x2,032         112x72x80         2,363	D160io										
10	KTOOLE							<u> </u>			
Telephone   Tele											
Max. Pressure   Nominal Power   Rand Nirvana Standard - 50 Hz Performance   Superior   Nominal Power   Capacity (FAD)**   Dimensions (LxWxH)   Weight (Air-Cooled)											
Model         Max. Pressure bar g psig         Nominal Power kW hp         Capacity (FAD)** m³/min cfm         Dimensions (LxWxH) mm         Weight (Air-Cooled) kg lb           R90n         4.5-10 65-145         90 125         8.47-17.95 299-634         2,703x1,466x2,032 106x58x80         2,060 4,540           R110n         4.5-10 65-145         110 150 8.47-21.66 299-765 2,703x1,466x2,032 106x58x80         2,060 4,540           R132n         4.5-10 65-145 132 175 8.47-24.44 299-863 2,855x1,836x2,032 112x72x80         2,363 5,210           R160n         4.5-10 65-145 160 200 8.47-28.88 299-1,020 2,855x1,836x2,032 112x72x80         2,363 5,210           Me         Ingersoll Rand Nirvana Premium – 50 Hz Performance           Model         bar g psig         kW hp         m³/min cfm         Dimensions (LxWxH) mm         Weight (Air-Cooled) mm           R90ne         4.5-10 65-145 90 125 8.86-18.7 313-661 2,855x1,836x2,032 112x72x80         2,495 5,500           R110ne         4.5-10 65-145 110 150 8.86-23 313-811 2,855x1,836x2,032 112x72x80         2,495 5,500           R132ne         4.5-10 65-145 132 175 8.86-27.24 313-962 2,855x1,836x2,032 112x72x80         2,495 5,500	n								112/12/00	37.30	.,050
Model         bar g         psig         kW         hp         m³/min         cfm         mm         in         kg         lb           R90n         4.5-10         65-145         90         125         8.47-17.95         299-634         2,703x1,466x2,032         106x58x80         2,060         4,540           R110n         4.5-10         65-145         110         150         8.47-21.66         299-765         2,703x1,466x2,032         106x58x80         2,060         4,540           R132n         4.5-10         65-145         132         175         8.47-24.44         299-863         2,855x1,836x2,032         112x72x80         2,363         5,210           R160n         4.5-10         65-145         160         200         8.47-28.88         299-1,020         2,855x1,836x2,032         112x72x80         2,363         5,210           Ingersoll Rand Nirvana Premium – 50 Hz Performance           Model         bar g         psig         kW         hp         m³/min         cfm         mm         in         kg         lb           R90ne         4.5-10         65-145         90         125         8.86-18.7         313-661         2,855x1,836x2,032         112x72x80         2,495 <td< th=""><th>• • •</th><th></th><th></th><th></th><th></th><th colspan="2"></th><th colspan="2">Dimensions (LyWyH)</th><th colspan="2">Weight (Air-Cooled)</th></td<>	• • •							Dimensions (LyWyH)		Weight (Air-Cooled)	
R90n         4.5-10 65-145         90 125         8.47-17.95 299-634 2,703x1,466x2,032 106x58x80         2,060 4,540           R110n         4.5-10 65-145         110 150 8.47-21.66 299-765 2,703x1,466x2,032 106x58x80         2,060 4,540           R132n         4.5-10 65-145 132 175 8.47-24.44 299-863 2,855x1,836x2,032 112x72x80         2,363 5,210           R160n         4.5-10 65-145 160 200 8.47-28.88 299-1,020 2,855x1,836x2,032 112x72x80         2,363 5,210           Ingersoll Rand Nirvana Premium - 50 Hz Performance           Max. Pressure bar g psig         Nominal Power bar g psig         Capacity (FAD)** Dimensions (LxWxH) Weight (Air-Cooled)         Weight (Air-Cooled)           R90ne         4.5-10 65-145 90 125 8.86-18.7 313-661 2,855x1,836x2,032 112x72x80 2,495 5,500         2,495 5,500           R110ne         4.5-10 65-145 110 150 8.86-23 313-811 2,855x1,836x2,032 112x72x80 2,495 5,500         2,495 5,500           R132ne         4.5-10 65-145 132 175 8.86-27.24 313-962 2,855x1,836x2,032 112x72x80 2,495 5,500	Model										
R110n         4.5-10         65-145         110         150         8.47-21.66         299-765         2,703x1,466x2,032         106x58x80         2,060         4,540           R132n         4.5-10         65-145         132         175         8.47-24.44         299-863         2,855x1,836x2,032         112x72x80         2,363         5,210           R160n         4.5-10         65-145         160         200         8.47-28.88         299-1,020         2,855x1,836x2,032         112x72x80         2,363         5,210           Ingersoll Rand Nirvana Premium – 50 Hz Performance           Model bar g psig         kW hp         m³/min cfm         mm         in         kg         lb           R90ne         4.5-10         65-145         90         125         8.86-18.7         313-661         2,855x1,836x2,032         112x72x80         2,495         5,500           R110ne         4.5-10         65-145         110         150         8.86-23         313-811         2,855x1,836x2,032         112x72x80         2,495         5,500           R132ne         4.5-10         65-145         132         175         8.86-27.24         313-962         2,855x1,836x2,032         112x72x80         2,495         5,500											
R132n         4.5-10         65-145         132         175         8.47-24.44         299-863         2,855x1,836x2,032         112x72x80         2,363         5,210           R160n         4.5-10         65-145         160         200         8.47-28.88         299-1,020         2,855x1,836x2,032         112x72x80         2,363         5,210           Ingersoll Rand Nirvana Premium – 50 Hz Performance           Model         Max. Pressure bar g psig         Nominal Power kW hp         Capacity (FAD)**         Dimensions (LxWxH) mm         Weight (Air-Cooled) kg lb           R90ne         4.5-10         65-145         90         125         8.86-18.7         313-661         2,855x1,836x2,032         112x72x80         2,495         5,500           R110ne         4.5-10         65-145         110         150         8.86-23         313-811         2,855x1,836x2,032         112x72x80         2,495         5,500           R132ne         4.5-10         65-145         132         175         8.86-27.24         313-962         2,855x1,836x2,032         112x72x80         2,495         5,500											
R160n         4.5-10 65-145         160 200         8.47-28.88 299-1,020 2,855x1,836x2,032         112x72x80         2,363 5,210           Ingersoll Rand Nirvana Premium - 50 Hz Performance         Max. Pressure bar g psig         Nominal Power kW hp         Capacity (FAD)** m³/min cfm         Dimensions (LxWxH) mm         Weight (Air-Cooled) kg lb           R90ne         4.5-10 65-145         90 125         8.86-18.7 313-661 2,855x1,836x2,032 112x72x80 2,495 5,500         2,495 5,500           R110ne         4.5-10 65-145 110 150 8.86-23 313-811 2,855x1,836x2,032 112x72x80 2,495 5,500         2,495 5,500           R132ne         4.5-10 65-145 132 175 8.86-27.24 313-962 2,855x1,836x2,032 112x72x80 2,495 5,500								<u> </u>			
Ingersoll Rand Nirvana Premium – 50 Hz Performance           Model         Max. Pressure bar g psig         Nominal Power kW hp         Capacity (FAD)** m³/min cfm         Dimensions (LxWxH) mm         Weight (Air-Cooled) kg lb           R90ne         4.5-10 65-145         90 125         8.86-18.7 313-661         2,855x1,836x2,032         112x72x80         2,495 5,500           R110ne         4.5-10 65-145         110 150         8.86-23 313-811         2,855x1,836x2,032         112x72x80         2,495 5,500           R132ne         4.5-10 65-145         132 175         8.86-27.24 313-962         2,855x1,836x2,032         112x72x80         2,495 5,500											
Model         Max. Pressure bar g psig         Nominal Power kW hp         Capacity (FAD)** m³/min cfm         Dimensions (LxWxH) mm         Weight (Air-Cooled) kg lb           R90ne         4.5-10 65-145         90 125         8.86-18.7 313-661         2,855x1,836x2,032         112x72x80         2,495 5,500           R110ne         4.5-10 65-145         110 150         8.86-23 313-811         2,855x1,836x2,032         112x72x80         2,495 5,500           R132ne         4.5-10 65-145         132 175         8.86-27.24 313-962         2,855x1,836x2,032         112x72x80         2,495 5,500								2,033.1,030.2,032	112X72X00	2,303	3,210
Model         bar g         psig         kW         hp         m³/min         cfm         mm         in         kg         lb           R90ne         4.5-10         65-145         90         125         8.86-18.7         313-661         2,855x1,836x2,032         112x72x80         2,495         5,500           R110ne         4.5-10         65-145         110         150         8.86-23         313-811         2,855x1,836x2,032         112x72x80         2,495         5,500           R132ne         4.5-10         65-145         132         175         8.86-27.24         313-962         2,855x1,836x2,032         112x72x80         2,495         5,500								Dimensions (L	xWxH)	Weight (A	ir-Cooled)
R110ne 4.5-10 65-145 110 150 8.86-23 313-811 2,855x1,836x2,032 112x72x80 2,495 5,500 R132ne 4.5-10 65-145 132 175 8.86-27.24 313-962 2,855x1,836x2,032 112x72x80 2,495 5,500	Model										
R110ne 4.5-10 65-145 110 150 8.86-23 313-811 2,855x1,836x2,032 112x72x80 2,495 5,500 R132ne 4.5-10 65-145 132 175 8.86-27.24 313-962 2,855x1,836x2,032 112x72x80 2,495 5,500	R90ne	4.5-10	65-145	90	125	8.86-18.7	313-661	2,855x1,836x2,032	112x72x80	2,495	5,500
R132ne 4.5-10 65-145 132 175 8.86-27.24 313-962 2,855x1,836x2,032 112x72x80 2,495 5,500											
				132							
	R160ne	4.5-10	65-145	160	200	8.86-32.05	313-1,132	2,855x1,836x2,032	112x72x80	2,495	5,500

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

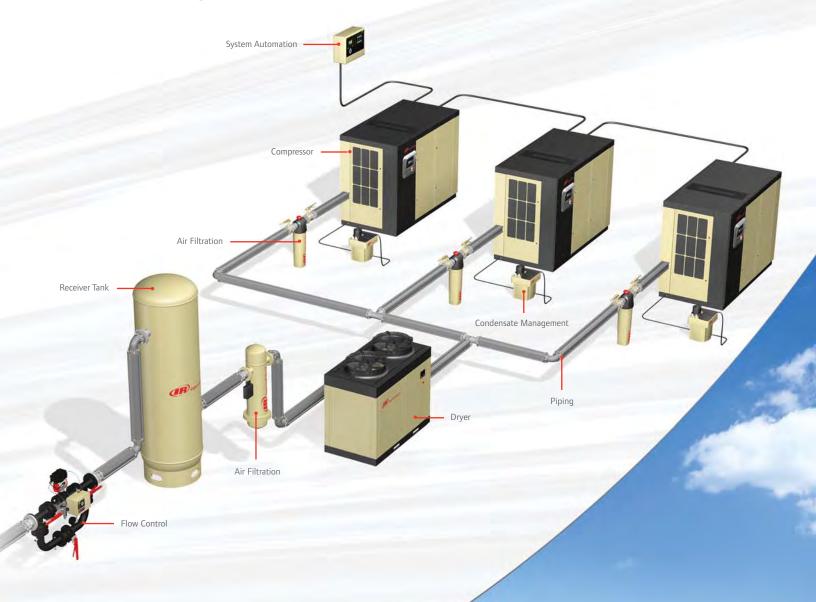
<sup>\*\*</sup>FAD (Free Air Delivery) is full-package performance including all losses. Tested per ISO 1217: 2009 Annex C and capacity range measured at 7.0 bar g/100 psig.

i	Ingersoll	Rand S	Standard -	– 60 Hz F	Performance					
	Max. Pre	ssure	Nomina	l Power	Capacity	(FAD)*	Dimensions (L	xWxH)	Weight (A	ir-Cooled)
Model	bar g	osig	kW	hp	m³/min	cfm	mm	in	kg	lb
R90i	7.5	110	90	125	17.58	621	2,703x1,466x2,032	106×58×80	2,420	5,335
		125	90	125	16.03	566	2,703x1,466x2,032	106×58×80	2,420	5,335
		145	90	125	14.47	511	2,703x1,466x2,032	106x58x80	2,420	5,335
		200	90	125	10.19	360	2,703x1,466x2,032	106x58x80	2,420	5,335
R110i		110	110	150	21.27	751	2,703x1,466x2,032	106x58x80	2,550	5,620
		125	110	150	19.54	690	2,703x1,466x2,032	106x58x80	2,550	5,620
		145	110	150	17.70	625	2,703x1,466x2,032	106x58x80	2,550	5,620
	14.0	200	110	150	13.73	485	2,703x1,466x2,032	106x58x80	2,550	5,620
R160i		110	160	200	27.89	985	2,855x1,836x2,032	112x72x80	2,926	6,450
		125	160	200	25.63	905	2,855x1,836x2,032	112x72x80	2,926	6,450
		145	160	200	24.49	865	2,855x1,836x2,032	112x72x80	2,926	6,450
		200	160	200	19.68	695	2,855x1,836x2,032	112x72x80	2,926	6,450
ie	Ingersoll	Rand P	Premium -	- 60 Hz P	erformance				·	<u> </u>
	Max. Pressure		Nominal Power		Capacity (FAD)*		Dimensions (LxWxH)		Weight (Air-Cooled)	
Model		osig	kW	hp	m³/min	cfm	mm	in	kg	lb
R90ie		110	90	125	18.80	664	2,855x1,836x2,032	112x72x80	2,744	6,050
Note		125	90	125	17.41	615	2,855x1,836x2,032	112x72x80	2,744	6,050
		145	90	125	16.06	567	2,855x1,836x2,032	112x72x80	2,744	6,050
		200	90	125	13.00	459	2,855x1,836x2,032	112x72x80	2,744	6,050
R110ie		110	110	150	22.99	812	2,855x1,836x2,032	112x72x80	2,744	6,050
TTTTOIC		125	110	150	20.53	725	2,855x1,836x2,032	112x72x80	2,744	6,050
		145	110	150	19.28	681	2,855x1,836x2,032	112x72x80	2,744	6,050
		200	110	150	15.43	545	2,855x1,836x2,032	112x72x80	2,744	6,050
R160ie		110	160	200	29.31	1,035	2,855x1,836x2,032	112x72x80	3,198	7,050
TTTOOLC		125	160	200	27.47	970	2,855x1,836x2,032	112x72x80	3,198	7,050
		145	160	200	25.57	903	2,855x1,836x2,032	112x72x80	3,198	7,050
		200	160	200	20.53	725	2,855x1,836x2,032	112x72x80	3,198	7,050
n					60 Hz Perf				2,122	.,,,,,,
_	Max. Pressure		Nominal Power		Capacity (FAD)**		Dimensions (LxWxH)		Weight (Air-Cooled)	
Model		osig	kW	hp	m³/min	cfm	mm	in	kg	lb
R90n	4.5-10 65		90	125	8.47-18.83	299-665	2,703x1,466x2,032	106x58x80	2,060	4,540
R110n	4.5-10 65		110	150	8.47-21.86	299-772	2,703x1,466x2,032	106×58×80	2,060	4,540
R160n	4.5-10 65		160	200	8.47-28.12		2,855x1,836x2,032	112x72x80	2,363	5,210
ne					60 Hz Perfe				,	
	Max. Pressure		Nominal Power		Capacity (FAD)**		Dimensions (LxWxH)		Weight (Air-Cooled)	
Model	bar g		kW	hp	m³/min	cfm	mm	in	kg	lb
			90	125	9.57-19.54	313-690	2,855x1,836x2,032	112x72x80	2,495	5,500
R90na	47-111 5						2,UJJA 1,UJUA 2,UJZ	1141/4100	Z,TJJ	2,200
R90ne R110ne	4.5-10 65 4.5-10 65		110	150	9.57-23.36	313-825	2,855x1,836x2,032	112x72x80	2,495	5,500

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

 $<sup>^{\</sup>star\star}\text{FAD}$  (Free Air Delivery) is full-package performance including all losses. Tested per ISO 1217: 2009 Annex C and capacity range measured at 7.0 bar g/100 psig.

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