

# Nirvana Variable Speed

90-160 kW (125-200 hp) 50 Hz  
Oil-Free Rotary Screw Air Compressors

Ingersoll Rand Nirvana oil-free rotary screw compressors unleash the full potential of variable speed technology. You get ultra reliability and efficiency, virtually maintenance-free operation and the peace of mind of knowing your air is 100% pure.

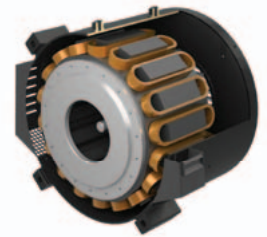


## Designed to Save Energy

- **Hybrid Permanent Magnet Motor (HPM) motor** shuts down at minimum speed to reduce wasted energy.
- **Soft starting motor** requires significantly less power at start-up and never operates at more than full load amps.
- **Molecularly-bonded UltraCoat rotor and air passage coating** reduces energy costs and delivers increased uptime.
- **Triple inlet cooler design** eliminates the need for an expensive pre-cooler and maintains the optimum cooler operating temperature.

## State-of-the-art HPM Motor

- **Virtually maintenance-free HPM motor** uses no bearings, pulleys, belts or couplings that can wear out.
- **Provides virtually unlimited starts and stops** to meet low-end variable demand cost-effectively.
- **Designed for continuous operation** at temperatures up to 46°C (115°F).



## Built Better for Increased Efficiency

- **ISO Class 0 100% oil-free air** under all operating conditions, certified by TÜV® Rheinland.
- **No degradation in specific power** at partial load.
- **State-of-the-Art Control System** with intuitive high resolution color display and web-enabled communications and control.
- **Dual-Vented Stainless Steel Ring Seals** ensure 100% oil-free air.
- **Corrosion-resistant cooler and piping components** for long-life operation.
- **Over 100 years of experience** building innovative, long-lasting oil-free compressors.

## 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
IRN90K-OF	10	145	90	125	12.4	438	2547 x 1885 x 2435	100.3 x 74.2 x 95.9	3215	7088
IRN110K-OF	10	145	110	150	15.7	555	2547 x 1885 x 2435	100.3 x 74.2 x 95.9	3215	7088
IRN132K-OF	10	145	132	175	19	671	2547 x 1885 x 2435	100.3 x 74.2 x 95.9	3215	7088
IRN160K-OF	10	145	160	200	23.1	816	2547 x 1885 x 2435	100.3 x 74.2 x 95.9	3215	7088

\*FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217: 2009 Annex C.

Features			
Category	Description	Standard	Optional
<b>Airend</b>	ISO Class 0 100% oil-free air under all operating conditions	•	
	Exclusive UltraCoat coating on rotors and air passages	•	
<b>Auxiliary Systems</b>	Noise attenuation enclosure	•	
	Package pre-filtration	•	
	Flow control by variable speed technology	•	
	Air intake filter and Venturi style silencer	•	
	Complete pre-piped lubrication system	•	
	Hydraulic valve actuators and dual-vented stainless steel ring seals	•	
	Integrated skid base for easy installation	•	
<b>Cooling System</b>	Efficient air cooled or water cooled heat exchangers	•	
	Electronic no-loss condensate drains	•	
	Single point inlet and outlet cooling water connection	•	
	Aluminum moisture separator	•	
<b>Electrical System &amp; Power Protection</b>	Power Outage Restart Option (PORO)		○
	Phase monitor (protection)		○
<b>General Options</b>	Teflon-free rotor coating		○
	Remote speed or setpoint control		○
<b>Motors &amp; Electrical Systems</b>	High-efficiency, maintenance-free Hybrid Permanent Magnet (HPM) motor	•	
	Power conditioned Variable Speed Drive (VSD)	•	
<b>Services</b>	12-month full package warranty	•	
	Comprehensive service and coverage plans available		○
<b>Weather Protection</b>	Outdoor modification/rain protection		○
	Frost protection to -10° C (14°F)		○
	46° C (115°F) ambient rating	•	
	Premium high dust filtration (inlet and package pre-filters)		○
	Motor space heater		○
<b>Xe-145 M Controller</b>	Intuitive high resolution color display	•	
	Built-in energy savings calculator with graphing and trending	•	
	Web-based notifications and automated reporting	•	
	Built in sequencer for up to 4 units	•	
	Modbus ready with Xi system control compatibility	•	



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