

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 Ran	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	m³/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	19.0	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
Airend	ISO Class 0 100% oil-free air under all operating conditions	•	
	Exclusive UltraCoat coating on rotors and air passages	•	
Auxiliary Systems	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	•	
Cooling System	Efficient air cooled or water cooled heat exchangers	•	
	Electronic no-loss condensate drains	•	
	Single point inlet and outlet cooling water connection	•	
	Aluminum moisture separator	•	
Electrical System & Power Protection	Power Outage Restart Option (PORO)		0
	Phase monitor (protection)		0
General Options	Teflon-free rotor coating		0
	Remote speed or setpoint control		0
Motors & Electrical Systems	High-efficiency, maintenance-free Hybrid Permanent Magnet (HPM) motor	•	
	Power conditioned Variable Speed Drive (VSD)	•	
Services	12-month full package warranty	•	
	Comprehensive service and coverage plans available		0
Weather Protection	Outdoor modification/rain protection		0
	Frost protection to -10° C (14°F)		0
	46° C (115°F) ambient rating	•	
	Premium high dust filtration (inlet and package pre-filters)		0
	Motor space heater		0
Xe-145 M Controller	Intuitive high resolution color display	•	
Coming soon – Please contact your local	Built-in energy savings calculator with graphing and trending	•	
distributor for more information.	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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