37–160 kW Premium Efficiency Nirvana Oil Free Rotary Screw Compressor

Unleashing the full potential of True variable frequency drive technology

If you have a critical oil-free application requiring the lowest operating cost, you can't afford to take chances with a compressor system that delivers anything but the absolute highest quality air, reliability, and efficiency. Not a problem with an Ingersoll Rand Nirvana – the world's first true variable-speed drive (VSD) oil-free compressor system.

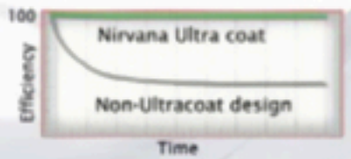
All standard Nirvana features+

Realible airend coupled with HPM motor

- Fewer rotating parts than any other rotary air compressor in its class
- Constant and high efficiency HPM motor
- Ingersoll Rand 's time-proven, reliable and efficient two-stage oil-free airend

Advanced two stage airend design

- Time proven oil-free 2-stage airend combined with innovative, market leading Nirvana HPM motor
- Rotors coated with UltraCoat - the most durable rotor coating available



Unmatched efficiency throught the life of compressor

- Ultracoat has no degradation for the most air delivered per input power

UltraCoat

- Ingersoll Rand's exclusive UltraCoat rotor and housing coating process uses a mechanical and chemical bond to insure the thinnest coating with the tightest possible grip.
- UltraCoat has proven to be unmatched in its performance
- UltraCoat delivers longer life and **10% energy savings**

Nirvana Advantage

Limitless starts and stops
Nirvana is designed to start and stop limitlessly to meet your compressed air demands while never going above full-load amps. HPM motor technology also has unmatched efficiency throughout the turn-down range, providing savings no matter what your demand profile requires.

No wasted energy
The Nirvana HPM motor requires less power at start-up, never operates at more than full-load amps, and shuts down immediately at minimum speed to avoid wasted energy. Nirvana ensures constant pressure throughout the entire operating range. At start-up, induction motors require a power surge of up to twice full-load current in order to overcome initial inertia. They also run unloaded when demand is below minimum, reducing efficiency and driving up energy costs.

Proven airends
Our rotary-screw airends deliver full potential through unparalleled rotor profile accuracy and repeatability. Stainless-steel rotors are used in the demanding second stage for maximum corrosion resistance. UltraCoat surface coating is also applied to the rotors and all housing surfaces for unmatched durability and performance.

Simpler and more reliable
The Nirvana HPM motor has fewer moving parts, and flanges directly onto the compressor drive shaft, making the motor more reliable and 100% maintenance-free. Its bearing-free design eliminates the need for greasing or replacing motor bearings. The HPM motor is also designed to operate continuously in temperatures up to 115° F (46° C).

A revolutionary motor coupled with advanced controls and proven compressor technologies

50 Hz

Model (HPM Style)	Nominal kW	Free Air Delivery-m³/min (cfm) 7 bar g	8.6 bar g	10.3 bar g	Length mm	Width mm	Height mm	Weight kg
IRN37K-OF	37	5.66(200)	5.07(179)	4.50(159)	2080	1120	2030	1632
IRN45K-OF	45	6.71(237)	6.20(219)	5.61(198)	2080	1120	2030	1632
IRN55K-OF	55	9.37(331)	8.47(299)	7.62(269)	2080	1320	1950	2045
IRN75K-OF	75	12.32(435)	11.33(399)	10.42(369)	2080	1320	1950	2045
IRN90K-OF	90	15.40(544)	13.70(484)	12.10(428)	2570	1830	2440	3222
IRN110K-OF	110	18.80(664)	17.10(604)	15.40(544)	2570	1830	2440	3222
IRN132K-OF	132	22.30(787)	20.40(720)	18.60(657)	2570	1830	2440	3222
IRN160K-OF	160	25.60(904)	24.40(862)	22.80(805)	2570	1830	2440	3222

(1) FAD (Free Air Delivery) m³/min are ratings of full package performance in accordance with CAGI-PNEUROP acceptance test standard PN2CPTC2 or ISO1217: 1996 Annex C.
(2) For detailed technical specifications please refer to our technical offer.