

Nirvana

Variable-Speed Drive, Contact-Cooled Rotary Screw Air Compressors

250–300 hp – Two-Stage



The two-stage Nirvana compressor offers—

Fewer rotating parts

- Hybrid Permanent Magnet (HPM) motor raises the standard on compressor reliability to an unequalled level.
- No pulleys, belts, or couplings to wear out or that need replacing—the HPM motor directly drives the compressor, resulting in longer life.
- IR's time-proven, reliable two-stage airend.

Unequalled efficiency and reliability

- Simply shuts off, rather than run unloaded.
- Unlimited starts per hour with no decrease in motor life.
- Innovative controls enhance Nirvana's reliability by
 - Controlling ramp-up time during start-ups to extend component life.
 - Preventing overcooling of compressor internals during low-demand/low-temperature conditions.
 - Maintaining constant pressure control.
- The Nirvana package is designed for high ambient temperature of 115°F (46°C) to ensure reliable operation and performance during the hottest periods of the year.

Unequalled performance

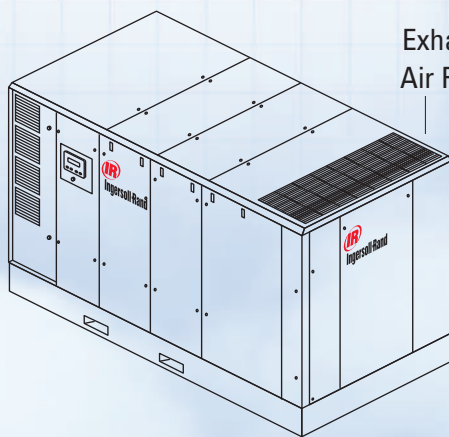
- The Nirvana compressor optimizes flow at any pressure to allow for flexibility in customer's processes.
- Nirvana's two-stage double efficiency
 - The typical compressor operates at an average of 70% load.
 - The Nirvana VSD decreases the overall energy cost 22%–30% compared to a fixed-speed rotary air compressor.
 - The Nirvana two-stage produces approximately 11%–15% more air than a single-stage air compressor.
 - Maximum energy saving (33%–41%) is achieved by the Nirvana two-stage.

Reduced total life-cycle cost

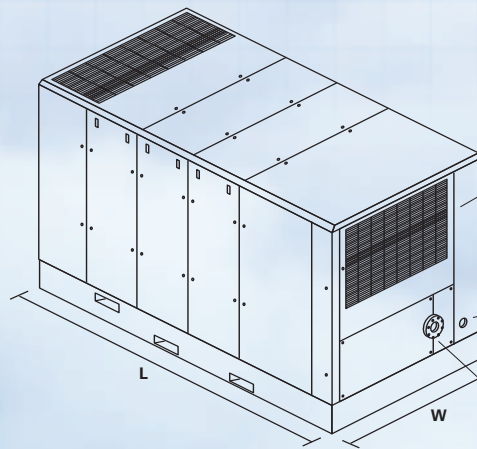
- The Nirvana is rated for continuous duty—100% load, 24 hours a day, 365 days a year—to reduce downtime and lost production.
- Maintenance and serviceability remain simple and cost effective by placing all maintenance checks and consumables in easily accessible areas.
- Energy status screens are built into Nirvana's Intellisys controller, allowing for in-house auditing of capacity, kW/hr and energy costs.

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Rated Pressure psi (g)	Nominal Motor Power hp	Capacity Range cfm	Sound Range dB(A)	Weight lb	Outlet Connection NPT
IRN300H-2S					
100	300	662-1625	70–80	13080	4.0
125	300	639-1475	70–80	13080	4.0
145	300	617-1425	70–80	13080	4.0
IRN250H-2S					
100	250	662-1380	70–80	13080	4.0
125	250	639-1170	70–80	13080	4.0
145	250	617-1141	70–80	13080	4.0



Exhaust
Air Flow



Intake
Air Flow

Electrical Inlet

Discharge Air

DIMENSIONS	mm	inches
Length	3757	148
Width	1929	76
Height	2145	85

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