



## MSG<sup>®</sup> TURBO-AIR<sup>®</sup> NX 5000 Centrifugal Air Compressor

Designed with the customer in mind, Ingersoll Rand's MSG<sup>®</sup> TURBO-AIR<sup>®</sup> NX5000 centrifugal compressor provides industry leading efficiency and lower overall total cost of ownership. Its innovative features deliver maximum uptime, hassle-free operation, and reduced maintenance needs. The MSG<sup>®</sup> TURBO-AIR<sup>®</sup> NX compressor series is packaged on a common base for easy installation and available in many configurations to meet your precise needs.

### Features



#### Featured Improvements

- Highly efficient aerodynamic components (inlets, impellers, scrolls and diffusers) combined with low mechanical losses and power



conserving inlet throttle control (IGV) provide up to 5% better specific power than competitive models.

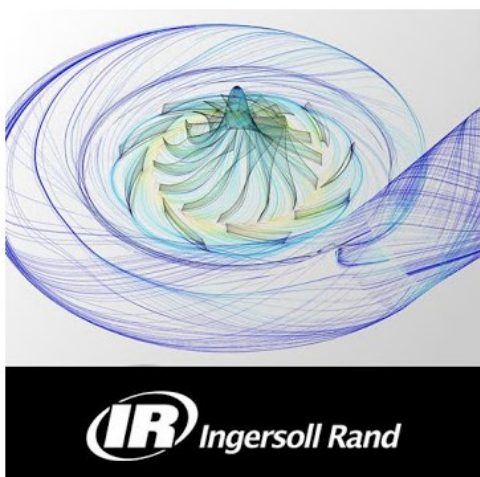
- Integrated structural base provides a foundation for the main driver and serves as a support platform for the side-mounted lube system/reservoir
- Side-mounted lube reservoir with top-mounted components and standard duplex filters ease maintenance requirements and provide continuous, uninterrupted operation.
- Gearbox inspection covers offer simple accessibility for quick field inspection and onsite assessment of rotating assembly health.
- Split pinion bearing and seal design allows for easy onsite inspection.
- Next generation intercoolers have been optimized for specific flow and pressure requirements and include a straight tube design that is roddable-in-place
- Easy to access dual condensate connections (two connections for each cooler) simplifies and reduces onsite piping and installation
- OEM-optimized cast-in water manifold, with provisions for optional patent-pending integral trim valves all tied together at a single-point customer water connection
- Expertly optimized stage and gas passages utilizing computational fluid dynamics (CFD)

#### FEATURED IMPROVEMENTS

- Integrated structural sub-base also serves as lubricant reservoir, drive motor foundation, and mounting platform for lube system accessories, including the aux oil pump, oil heater, and oil cooler.
- Optimized stage and gas passages utilizing computational fluid dynamics (CFD)
- OEM-optimized cast-in-water manifold, with provisions for optional patent-pending integral trim valves
- Interchangeable intercooler bundles

#### Additional Resources

**[Comparison: MSG TURBO-AIR NX 8000 vs Other Compressors \(-/media/bfe8fd752adf4f3ebf0d0f0c923c54e0.ashx\)](/media/bfe8fd752adf4f3ebf0d0f0c923c54e0.ashx)**



#### ISO Certified Class Zero

- Our MSG TURBO-AIR centrifugal compressor product line has been engineered to produce oil-free air for more than 60 years.
- This certification officially acknowledges the ability of our compressors to produce 100% oil-free air, providing our customers with enhanced quality assurance.

## DOWNLOAD THE NX8000 AUGMENTED REALITY TOUR



([https://play.google.com/store/apps/details?](https://play.google.com/store/apps/details?id=com.irco.commercial.marketing.NX8000.AR&hl=en_US)

id=com.irco.commercial.marketing.NX8000.AR&hl=en\_US)



(<https://itunes.apple.com/us/app/turbo-air-nx-8000-augmented/id1031989675>)



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### LOW TOTAL COST OF OWNERSHIP:

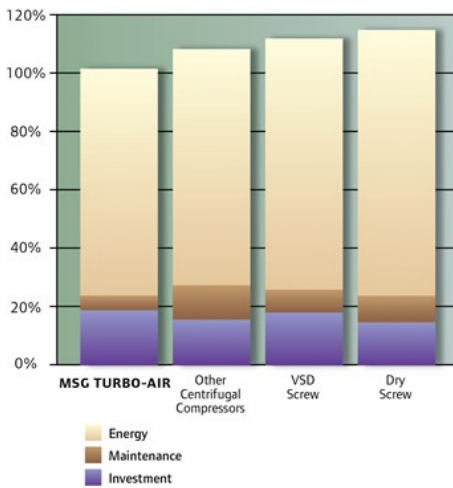
Over time, the energy required to power a compressed air system is the largest cost associated with a compressor; particularly in today's fluctuating energy markets. That is why, to accurately determine the return on your investment, it is important to consider the total life-cycle cost of operating the compressor, including the initial investment, energy consumption and maintenance costs.

As the chart below demonstrates, the MSG TURBO-AIR NX 8000 provides some of the lowest total life-cycle costs of any compressor.

The power savings delivered can significantly speed up the payback on your initial investment, and the savings continue to build the more you use the MSG TURBO-AIR NX 8000.

### Life-Cycle Cost Comparison

(over 10 years of operation at 80% loaded)



### Low Total Cost of Ownership

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The horizontally split gearbox design ensures easy access to major rotating elements, bearing and seals. Conveniently located on the gearbox cover, gearbox inspection ports make quick visual checks of gear and bearing conditions possible.

Newly designed inlet guide vane assembly provides best-in-class turndown range coupled with low pressure drop to optimize overall system efficiency at multiple operating points.

Standard 3/8” straight tube coolers provide for a low maintenance heat transfer system with uncompromising performance, low pressure drop and very low cooling water usage. Coolers are designed to ASME Section VIII pressure vessel code and are easy to access, inspect, and service. (Coolers are compliant with PED and GB codes as applicable).

Standard duplex oil filters maximize uptime by allowing for routine equipment maintenance without interrupting production. Side-mounted lube oil reservoir with top-mounted components and access port ensures easy access for periodic inspection, maintenance and monitoring

### Model Specifications

| Model  | Nominal Power kW (hp) | Discharge Pressure barg (psig) | Flow m <sup>3</sup> /min (cfm) |
|--------|-----------------------|--------------------------------|--------------------------------|
| NX5000 | 600-1050 (800-1400)   | 2.5-14.5 (35-210)              | 125-210 (4500-7500)            |

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## Parts & Accessories



**MSG® TURBO-AIR®  
Centrifugal Compressor**



About Ingersoll Rand Inc. Ingersoll Rand Inc. (NYSE:IR), driven by an entrepreneurial spirit and ownership mindset, is dedicated to helping make life better for our employees, customers and communities. Customers lean on us for our technology-driven excellence in mission-critical flow creation and industrial solutions across 40+ respected brands where our products and services excel in the most complex and harsh conditions. Our employees develop customers for life through their daily commitment to expertise, productivity and efficiency. For more information, visit [www.IRCO.com](http://www.IRCO.com).