



## MSG<sup>®</sup> TURBO-AIR<sup>®</sup> 11000 Centrifugal Air & Gas Compressor

MSG TURBO-AIR 11000 is a more standardized compressor with a shorter delivery time. The MSG TURBO-AIR 11000 was designed from the ground up with input from actual end-users, assuring that this machine was built around customer needs for a more efficient and easily maintainable compressor.

### Features

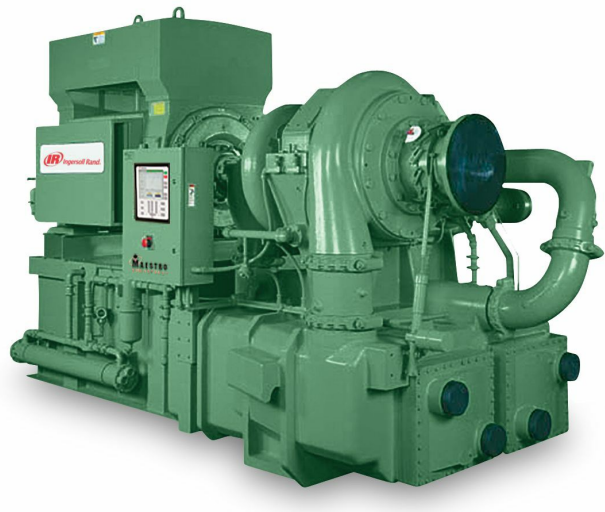
#### GAS FLOW ARRANGEMENT

MSG TURBO-AIR centrifugal compressors feature an advanced arrangement of gas flow components. Advantages of this arrangement include:

- Directed gas movement to reduce turbulence induced friction
- Air is cooled after every stage to provide high isothermal efficiency

#### Air Flow Diagram

1. Compressor inlet
2. First-stage compressor volute
3. Coolant in
4. Coolant out
5. First-stage intercooler
6. Second-stage compressor volute
7. Second-stage intercooler
8. Third-stage compressor volute
9. Compressor discharge



#### MSG<sup>®</sup> TURBO-AIR<sup>®</sup> INTEGRALLY GEARED CENTRIFUGAL COMPRESSORS

MSG TURBO-AIR compressors offer outstanding design flexibility. MSG compressors are application engineered with numerous available configurations:

- Flows from 70 to 3800 m<sup>3</sup>/min (2500 to 135,000 CFM)
- Input capacity to over 18,650 kW (25,000 hp)
- Discharge pressures to 100 barg (1450 psig)

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## FEATURES

### Oil-Free Air and Gas

- Prevents system contamination
- Reduces the potential for compressed air pipeline fires caused by oil carryover
- No costly waste disposal associated with oil-laden condensate
- Eliminates the expense and maintenance of oil separation filters at the discharge

### High Reliability

MSG centrifugal compressors are designed to be extremely

reliable due to:

- Conservative high-quality gear design
- Long-life pinion bearing design
- Thrust loads absorbed at low speed
- Stainless steel compression elements

### Low Compressor Operating Life Cycle Cost

MSG TURBO-AIR centrifugal compressors provide better overall operating efficiency than positive displacement or other centrifugal compressors.

- Excellent efficiencies at full load, part load and no load
- Low maintenance cost
- Increased uptime from high-reliability design (limits the need for multiple unit installations for basic reliability reasons)
- No sliding or rubbing parts in the compression process that can cause wear and thereby efficiency loss

## APPLICATIONS

### Engineered Air Applications

- Industrial gases
- Instrument air
- American Petroleum Institute (API) standards
- Soot blowers
- Large plant air
- Power industry related

### Gas Compressor Applications

- Fuel gas boosting
- Natural gas gathering
- Hydrocarbon refrigeration gas
- Carbon monoxide
- CO<sub>2</sub> (wet or dry)
- SynGas
- Low molecular weight recycle gas
- High-pressure nitrogen
- Landfill gas

## Model Specifications

Specification	Metric	Imperial
Standard Input Power	up to 2670 kW	up to 3700 hp
Discharge Pressure	up to 19 barg	up to 275 psig
Inlet Flow	232 to 417 m <sup>3</sup> /min	8200 to 14,750 CFM

## Parts & Accessories



**Centrifugal Oil Filters**



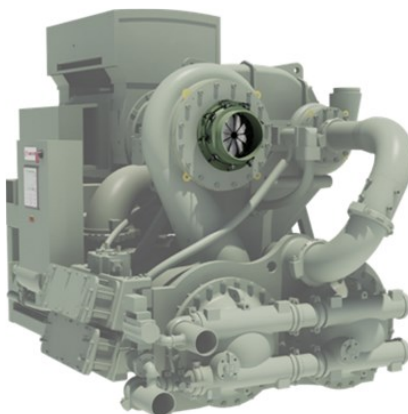
**Upgrade - Aerodynamic Enhancements for**



**Field Overhaul Services**



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



**Upgrade - Variable Inlet Guide Vanes for Centrifugal**



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).