



## MSG<sup>®</sup> TURBO-AIR<sup>®</sup> COOLED 2000 Centrifugal Air Compressor

The MSG TURBO-AIR COOLED 2000 is a great match for almost any location and conditions. The air-cooled design eliminates the installation restrictions and the utility costs associated with water-cooled units by removing the cost of pumping and treating water, and maintaining the water system.

### Features

1. **Oil Cooler:** Air-cooled heat exchanger for lubrication system
2. **Aftercooler:** Air-cooled heat exchanger for 3rd stage discharge air
3. **2nd Stage Intercooler:** Air-cooled heat exchanger for 2nd stage discharge air
4. **1st Stage Intercooler:** Air-cooled heat exchanger for 1st stage discharge air
5. **Fan Plenum & Cooler Fan:** Fan and plenum to facilitate air-cooled heat transfer
6. **Inlet Filter:** Removes airborne particulate prior to 1st compression stage
7. **3rd Stage of Compression:** Final compression stage to reach pressure set point
8. **2nd Stage of Compression:** Intermediary compression stage before final compression stage
9. **1st Stage of Compression:** Initial compression stage of atmospheric air
10. **Control Center:** Single-point electrical connection for MAESTRO Universal control panel, drive motor starter, and auxiliaries
11. **Sound Enclosure:** Enclosure provides quiet operation at 85 dBA
12. **Compressor Discharge:** Discharge from final compression stage to aftercooler and subsequent downstream equipment



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## ISO CERTIFIED CLASS 0

The 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.

### BENEFITS OF MSG TURBO-AIR COMPRESSORS:

#### *ISO 8573-1 Certified Oil-Free Air*

- Prevents oil contamination of your system
- Limits the potential for compressed air pipeline fires caused by oil carryover
- Eliminates costly waste disposal problems associated with oil-laden condensate
- Eliminates the expense and associated maintenance requirements of oil-removal filters, since no oil enters the compressed air stream in the compressor

#### *Simple Installation*

- True unloading capability helps to take advantage of opportunities for energy savings
- Increased uptime compared to alternative technologies translates into reduced operating life-cycle costs
- Reduced number of external connections
- Compact design reduces required floor space
- Meets OSHA's sound level requirements without sound enclosure

#### *Low-Cost Operation*

- True unloading capability helps to take advantage of opportunities for energy savings
- Increased uptime compared to alternative technologies translates into reduced operating life-cycle costs
- Excellent part-load efficiencies for any operating load
- No sliding or rubbing parts in the compression process causing wear or efficiency loss

#### *Easy Operation*

- The MAESTRO™ Universal control panel provides a built-in web server, allowing compressor monitoring using your local intranet/[span>](#)
- Significant annual savings in operating cost by providing more precise control
- Easy-to-use, automatic operation

#### *Easy Maintenance*

- Compression elements do not wear or require periodic replacement
- No oil-removal filters to clean or replace
- Accessible, horizontally split gearbox for quick inspection
- Intercooler and aftercooler bundles are easy to remove for inspection and cleaning
- Water-in-tube design intercooler and aftercooler allow for simple mechanical cleaning
- Maintenance-free dry coupling

#### *High Reliability*

- Thrust loads absorbed at low speed
- Non-contacting air and oil seals
- Stainless steel compression elements
- Conservative, high-quality gear design
- Extended life pinion bearing design
- Centrifugal compressors are proven to have a long mean time between failures (MTBF), and independent research has shown an industry-leading

availability of 99.7%

## Model Specifications

Specification	Metric	Imperial
Standard Input Power	93-260kw	125-350hp
Discharge Pressure	3.5-10.3 barg	50-150psig
Inlet Flow	15-50m <sup>3</sup> /m	500-1800cfm
Weight	5543 kg	12000lb

## Parts & Accessories



Field Overhaul Services



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).