



MSG[®] 25 Centrifugal Air & Gas Compressor

MSG compressors are custom designed and built for individual customer needs for a variety of applications. Our MSG style compressors are manufactured with a highly engineered air flow components, designed for easy, low-cost installation and operation.

Features

MSG[®] INTEGRALLY GEARED CENTRIFUGAL COMPRESSORS

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

- Flows from 70 to 3800 m³/min (2500 to 135,000 CFM)
- Input capacity to over 18,650 kW (25,000 hp)
- Discharge pressures to 100 barg (1450 psig)



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 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
- CO₂ (wet or dry)
- SynGas
- Low molecular weight recycle gas
- High-pressure nitrogen
- Landfill gas

GAS FLOW ARRANGEMENT

MSG 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

Model Specifications

Specification	Metric	Imperial
Standard Input Power	up to 16,400 kW	up to 22,000 hp
Discharge Pressure	up to 20 barg	up to 290 psig
Inlet Flow	1415 to 3800 m ³ /min	50,000 to 135,000 CFM

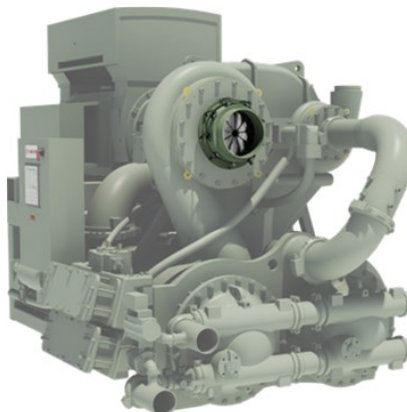
Parts & Accessories



Centrifugal Oil Filters

Field Overhaul Services

MSG® Centac® Centrifugal Compressor Replacement Parts



Upgrade - Aerodynamic Enhancements for

Upgrade - Variable Inlet Guide Vanes for Centrifugal

TurboBlend™ 46 Premium Centrifugal Compressor



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