

GM Series Screw Compressor Package

4 Models 50 - 300 HP

Designed for high stage, booster, or single stage operation, utilizing various refrigerants including R-717, R-22, R-507, R-134A, R-744 and others



110GM
125GM
160GM
195GM

Compressor Features:

- Proprietary line-generated rotor profile and optimized rotor dimensions for improved volumetric efficiency and lower power consumption.
- 5:6 male to female lobe ratio for improved bearing load distribution, lower noise generation, and better bhp/ton performance.
- Patented flow-optimized suction inlet improves volumetric efficiency and reduces noise.
- High performance cylindrical axial roller bearings and duplex angular contact ball thrust bearings.
- Double-acting hydraulic capacity control, infinitely adjustable from 10% to 100%.
- Unique Hermetic Differential Transformer (HDT) transmits slide valve position without wear or friction and requires no external seal.
- Integrated suction strainer and suction check valve.
- Internal oil pump for capacity control on high stage units.

Package Features:

- Multi-stage oil separator design guarantees low oil loss.
- Three-way thermostatic oil temperature control valve standard with oil cooler options.
- High performance, all steel, flexible disc coupling with factory assembled center member for quick installation and removal.
- Unique keyless frictional coupling hub on the compressor end provides an easily adjustable and releasable mechanical shrink fit. This feature provides all the benefits of a shrink fit, but without the problems.
- Shimless motor mounts provide fast, easy, and accurate motor alignment checks.
- Advanced GForce™ microprocessor control panel is standard with options for refrigeration system control.

Product Drawings:

- Contact your nearest GEA FES, Inc. Systems sales representative or go to www.geafes.com, click on 'Tools' . . . 'Documentation' . . . 'General Arrangement (GA) drawings'.

GM Series Compressor Packages

110GM
125GM
160GM
195GM

... Small Size (4 models, 50 - 300 HP)

... Large Features

- No Speed Increasing Gears
- Extremely Quiet
- Unload to 10% Capacity

- Rebuildable
- Controlled by the Most Reliable Microprocessor in the Industry

GForce™



IP-67 Wire Harness System For

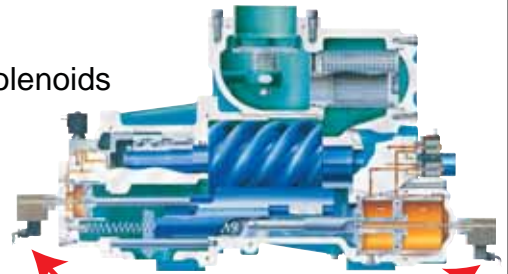
- Weathertight application
- Quick connect sensors
- Minimal package tubing

Integrated

- Suction strainer
- Capacity control solenoids
- Oil filter
- Oil pump

Shimless Motor Mounts

- Easy and accurate alignment
- No "Soft Foot"

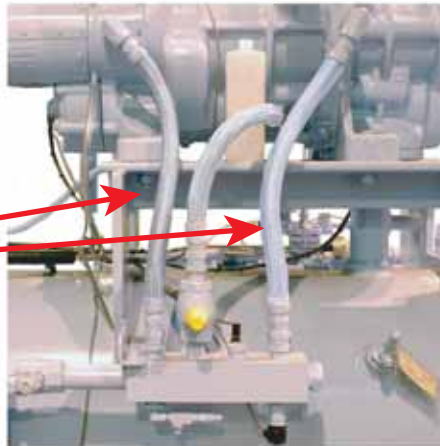


Semi-hermetic Slide Valve Position Indicator

- No leaks
- 4 - 20 mA output
- Compact design

Flexible Stainless Steel Hose For Oil Lines

- Reduced vibration
- No leaks
- Easy connections



Bolt on Oil Cooler

- Easy removal during installation
- Reduces package width for maneuvering in tight spaces

Optional IntelliSOC Liquid Injection Oil Cooling

- Reduced package and field piping
- Precise discharge temperature control
- Low discharge pressure operation
- Lower operating costs



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Form No.
GM08-10
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