SUCCESSFUL APPLICATIONS INCLUDE:

- Cold Food Storage
- Food Processors
- Bakeries
- Beef, Pork & Poultry
- Brewerries
- Dairies
- Wineries
- Ice Production
- Ice Rinks
- Industrial Process
- Pharmaceutical
- Petrochemical

MAXIMUM OPERATING SAVINGS

In many regions, the total cost of meeting refrigeration load by natural gas is substantially less than the cost of using electricity. The variable speed operation of the TecoDrive natural gas engine used on the Tecofrost optimizes energy use by closely following the load profile. This variable speed capability provides additional benefits of longer intervals between required maintenance on both the engine and compressor. This annual operating savings is significant and yields a rapid payback. Utility, state, and federal incentives available in many areas.

AVOID HIGH DEMAND AND ENERGY CHARGES

Refrigeration plants have extremely large electrical demand and usage loads. In many application’s this load peaks in the daytime and summer, the same periods when electricity is the most expensive and natural gas supply is the most abundant. By reducing the refrigeration plant electric demand and usage during these periods, owners can save significantly in their total energy costs through the entire year.

UTILIZE ENGINE AND EXHAUST WASTE HEAT FOR HOT WATER OR PROCESS NEEDS

Maximum savings can be realized by utilizing the heat generated by the engine jacket and exhaust gas. Recovered heat can be used for space heating, domestic hot water, boiler feed water preheating, or process applications. Nearly one-half of the engine’s fuel consumption can be recovered through this waste heat and is available up to 225°F.
**PHYSICAL DIMENSIONS**

Length (L): 8'9"
Width (W): 4'3"
Height: 7'4"
Weight: 4,000 lbs

**DIMENSION NOTES:**
1. All dimensions are approximate and subject to change; consult factory for most current installation drawings.
2. Minimum Service Clearances:
   - 3 feet on all sides for routine service
   - 2 feet above unit for engine and compressor removal.

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**VSM 501@ 3000 rpm for R-717**

**Water-cooled Oil Cooling**

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<th>SST [°F]</th>
<th>psig</th>
<th>SDT [°F/psig]</th>
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<th>85/151.7</th>
<th>95/181.1</th>
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<td>917</td>
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<td>150</td>
<td>1358</td>
<td>717</td>
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</table>

* inches of mercury below one atmosphere

**Notes**
1. All specifications are +/- 5% and subject to change without notice.
2. Rating are based on 10 °F suction superheat and 10 °F liquid subcooling.
3. Fuel (MBH) = natural gas fuel consumption base on higher heating value of 1020 Btu/scf.
5. Ratings must be determined with partially open slide valve so as not to exceed maximum engine horsepower. Assume 150 HP for economic analysis.

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**OUTSTANDING TECOFROST FEATURES**

- TecoDrive™ 7400 industrial, natural gas engine
- Reliable and robust single screw compressor by Vilter
- Variable VI (volume ratio)
- Equivalent footprint to electric packages
- Service sprint mode
- Variable engine speed operation for excellent part load performance and longer life
- TecoNET™ microprocessor-based control system with precise PID control for fully automatic operation, continuous system monitoring, digital display, fault diagnostics and tie-in to an advanced Modular CHP Systems

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