

## General Specifications

### Taurus™ 70 Gas Turbine

- Industrial, Two Shaft
- Axial Compressor
  - 14 Stage
  - Variable Inlet Guide Vanes
  - Pressure Ratio: 16.2:1
  - Inlet Airflow:  
26.8 kg/sec (59.1 lb/sec)
  - Axially Split Case
- Combustion Chamber
  - Single Annular Type
  - Conventional or Lean-Premixed, Dry, Low Emission (SoLoNOx™)
  - 12 Fuel Injectors
  - Torch Ignitor System
- Gas Producer Turbine
  - 2 Stage, Reaction
  - Max. Speed: 15,200 rpm
- Power Turbine
  - 2 Stage, Reaction
  - Max. Speed: 11,600 rpm
- Bearings
  - Journal and Thrust: Tilt Pad
- Coatings
  - Compressor Stators and Drums: Inorganic Aluminum
  - Turbine Nozzles and Blades: Precious Metal Diffusion Aluminide
- Vibration Transducer Type
  - Proximity Probes
  - Velocity Transducer

## Key Package Features

- Driver Skid with Drip Pans
- 316L Stainless Steel Piping ≤102mm (4")
- Compression-Type Tube Fittings
- Digital Display Panel
- Electrical System Options
  - NEC Class I, Group D, Div. 1 or 2
  - CENELEC Zone 1 or 2
- Turbotronic™ Microprocessor Control System
  - Offskid or Onskid
  - Video Display Unit
  - Temperature and Vibration Monitoring
  - Historical Displays
- Control System Options
  - Auxiliary Control Interface or Auxiliary Control Console (with onskid controls)
  - Remote Control and Display
  - 120-VDC Control Battery/Charger
  - Supervisory Communications Interface
  - Turbine Performance Map
  - Printer/Logger
  - Field Programming
  - Process Controls
  - Compressor Performance Map
  - Compressor Anti-Surge Control
- CE/ATEX Zone 2 Certification
- Start Systems
  - Pneumatic
  - Direct Drive AC
- Fuel System: Natural Gas
- Integrated Lube Oil System
  - Turbine-Driven Accessories
  - Oil Tank Vent Separator
  - Oil Tank Vent Flame Trap
- Lube Oil System Options
  - Oil Cooler
  - Oil Heater
- Compressor Cleaning System Options
  - On-Crank
  - On-Crank/On-Line
  - Certified Cleaning Tank
- Gearbox (if applicable)
  - Speed Increaser or Reducer
- Air Inlet and Exhaust System Options
- Enclosure and Associated Options
- Factory Testing of Turbine and Package
- Documentation
  - Mechanical and Electrical Drawings
  - Quality Control Data Book
  - Inspection and Test Plan
  - Test Reports
  - Operation and Maintenance Instruction Manual

### Performance

|               |                                     |
|---------------|-------------------------------------|
| Output Power  | 8290 kW<br>(11,110 hp)              |
| Heat Rate     | 10 170 kJ/kW-hr<br>(7190 Btu/hp-hr) |
| Exhaust Flow  | 96 500 kg/hr<br>(212,740 lb/hr)     |
| Exhaust Temp. | 500°C<br>(935°F)                    |

Nominal Rating – ISO  
At 15°C (59°F), sea level

No inlet/exhaust losses

Relative humidity 60%

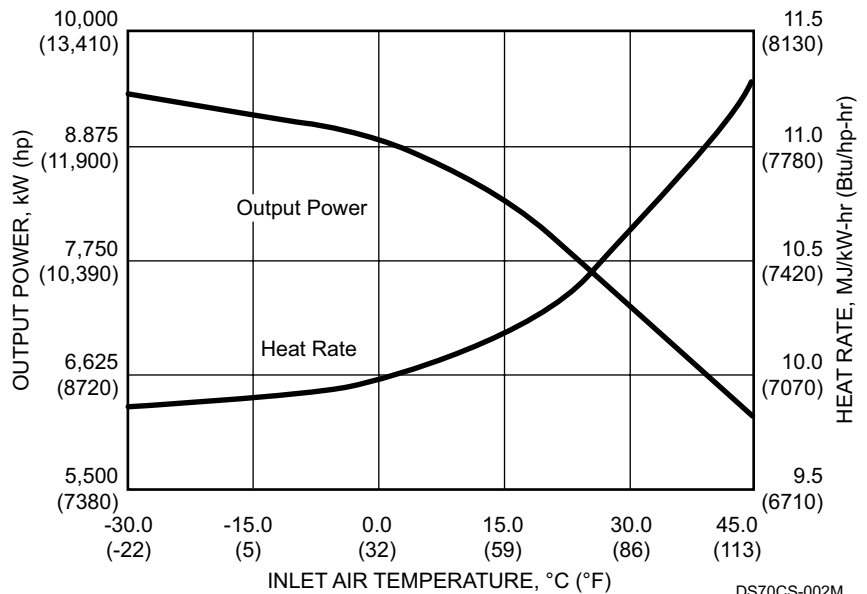
Natural gas fuel with  
LHV = 35 MJ/nm<sup>3</sup> (940 Btu/scf)

Optimum power turbine speed

AC-driven accessories

Engine efficiency: 35.4%

### Available Power

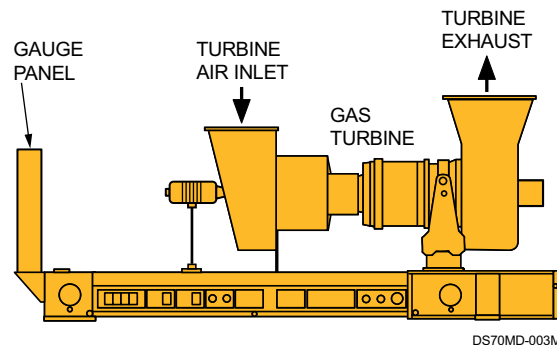


DS70CS-002M

### Package Dimensions \*

- Length: 7.7 m (25' 3")
- Width: 2.6 m (8' 8")
- Height: 3.3 m (10' 9")
- Typical Weight: 24 495 kg (54,000 lb)

\*Driver package only, dry weight,  
unenclosed height



DS70MD-003M