

## 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)
  - Vertically 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:  
Inorganic Aluminum
  - Turbine Blades and Nozzles:  
Precious Metal Diffusion Aluminide
- Vibration Transducer Type
  - Proximity Probes
  - Velocity Transducer

## Key Package Features

- Base Frame with Drip Pans
- Driven Equipment Base Frame
  - Compressor
  - Compressor Auxiliary Systems
- 316L Stainless Steel Piping <4"
- Compression-Type Tube Fittings
- Digital Gauge 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 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
  - Tank Vent Separator
  - Flame Trap
- Oil System Options
  - Oil Cooler
  - Oil Heater
- Compressor Cleaning System Options
  - On-Crank/On-Line
  - Cleaning Tank
- Gearbox (if applicable)
  - Speed Increaser
- Air Inlet and Exhaust System Options
- Enclosure and Associated Options
- Factory Testing of Turbine with Package and Compressor
- Documentation
  - Drawings
  - Quality Control Data Book
  - Inspection and Test Plan
  - Test Reports
  - Operation and Maintenance Manuals

### Performance

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

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

No inlet/exhaust losses

Relative humidity 60%

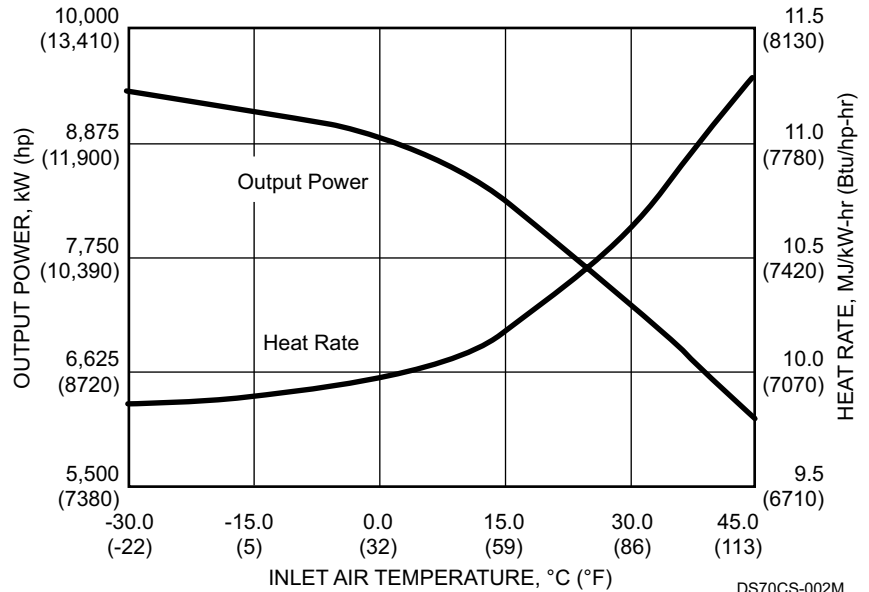
Natural gas fuel with  
LHV = 35 MJ/nm<sup>3</sup> (940 Btu/scf)

Optimum power turbine speed

AC-driven accessories

Engine efficiency: 35.4%

### Available Power



DS70CS-002M

### Package Dimensions\*

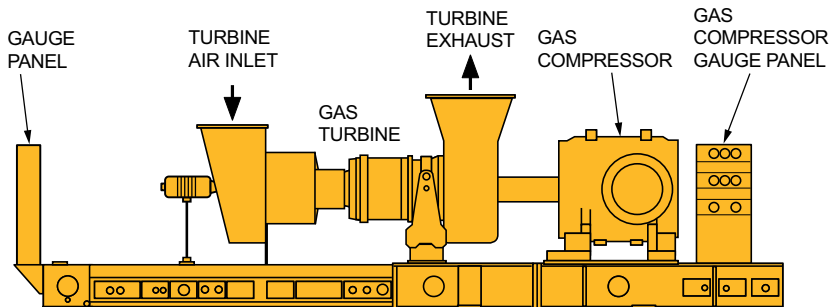
Length: 7.7 m (25' 3")

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



DS70CS-003M

### FOR MORE INFORMATION

Telephone: (+1) 619-544-5352  
Email: [infocorp@soltarturbines.com](mailto:infocorp@soltarturbines.com)  
Internet: [www.soltarturbines.com](http://www.soltarturbines.com)