

General Specifications

Taurus™ 60 Gas Turbine

- Industrial, Two Shaft
- Axial Compressor
 - 12 Stage
 - Variable Inlet Guide Vanes
 - Pressure Ratio: 12.2:1
 - Inlet Airflow:
 - 21.3 kg/sec (47.0 lb/sec)
 - Vertically Split Case
- Combustion Chamber
 - Annular Type
 - Conventional or Lean-Premixed, Dry, Low Emission (SoLoNOx™)
 - 12 Fuel Injectors
 - Torch Ignitor System
- Gas Producer Turbine
 - 2 Stage, Reaction
 - Max. Speed: 15,000 rpm
- Power Turbine
 - 2 Stage, Reaction
 - Max. Speed: 14,300 rpm
- Bearings
 - Journal: Tilting Pad
 - Thrust, Active: Tilting Pad
 - Thrust, Inactive: Fixed Tapered Land
- Coatings
 - Compressor: Inorganic Aluminum
 - Turbine Nozzles and Blades: Precious Metal Diffusion Aluminide
- Vibration Transducer Type
 - Velocity
 - Proximity Probes

Key Package Features

- Driver Skid with Drip Pans
- Driven Equipment Skid
 - Compressor
 - Compressor Auxiliary Systems
- 316L Stainless Steel Piping ≤ 4"
- Compression-Type Tube Fittings
- Electrical System Options
 - NEC Class I, Group D, Div. 1
 - CENELEC Zone 1
- Turbotronic™ Microprocessor Control System
 - Freestanding Control Console
 - Color Video Display
 - Vibration Monitoring
- Control Options
 - 24-VDC Control Battery/Charger System
 - Gas Turbine and Package Temperature Monitoring
 - Serial Link Supervisory Interface
 - Turbine Performance Map
 - Compressor Performance Map
 - Historical Displays
 - Printer/Logger
 - Predictive Emissions Monitoring
 - Process Controls
 - Compressor Anti-Surge Control
 - Field Programming
- Start Systems
 - Pneumatic
 - Direct Drive AC
- Fuel System: Natural Gas
- Integrated Lube Oil System
 - Turbine-Driven Accessories
- Oil System Options
 - Oil Cooler
 - Oil Heater
 - Tank Vent Separator
 - Flame Trap
- Axial Compressor Cleaning Systems
 - On-Crank
 - On-Crank/On-Line
 - Stationary Cleaning Tank
- Gearbox (if applicable)
 - Speed Increaser
 - Speed Decreaser
- Air Inlet and Exhaust System Options
- Enclosure and Associated Options
- Factory Testing of Turbine and Package
- Documentation
 - Drawings
 - Quality Control Data Book
 - Inspection and Test Plan
 - Test Reports
 - Operation and Maintenance Instruction Manual

Performance

| | |
|---------------|-------------------------------------|
| Output Power | 5740 kW (7700 hp) |
| Heat Rate | 11 265 kJ/kW-hr (7965 Btu/hp-hr) |
| Exhaust Flow | 77 880 kg/hr (171,690 lb/hr) |
| Exhaust Temp. | 510°C (950°F) |

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

No inlet/exhaust losses

Relative humidity 60%

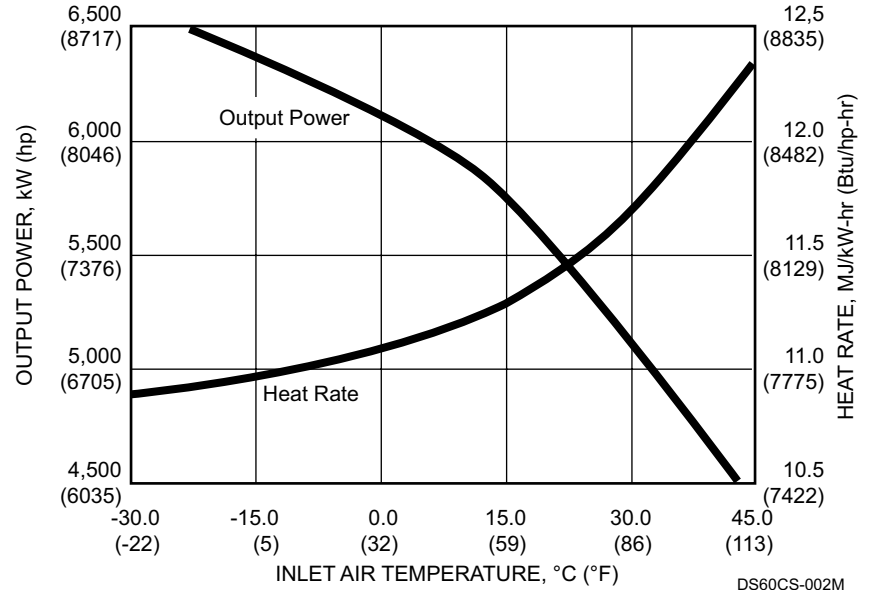
Natural gas fuel with
LHV = 35 MJ/nm³ (940 Btu/scf)

Optimum power turbine speed

AC-driven accessories

Engine efficiency: 32%

Available Power



DS60CS-002M

Package Dimensions*

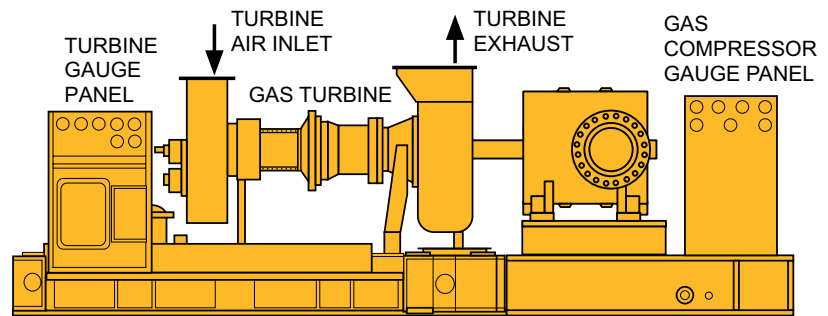
Length: 6.0 m (19' 9")

Width: 2.5 m (8' 1")

Height: 2.7 m (8' 11")

Typical Weight: 15 420 kg (34,000 lb)

*Driver package only



DS60CS-003M