

ACE Group

Solar Titan 130 Gas Turbine Compressor Set



General Specifications

Titan™ 130 Gas Turbine

- Industrial, Two-Shaft
- Axial Compressor
 - 14-Stage
 - Variable Inlet Guide Vanes and Stators
 - Pressure Ratio: 16:1
 - Inlet Airflow:
 - 47.4 kg/sec (105.2 lb/sec)
 - Vertically Split Case
- Combustion Chamber
 - Annular-Type, Conventional or Lean-Premixed, Dry, Low Emission (SoLoNOx™)
 - 21 Fuel Injectors (Conventional)
 - 14 Fuel Injectors (SoLoNOx)
 - Torch Ignitor System
- Gas Generator Turbine
 - 2-Stage, Reaction
 - Max. Speed: 11,220 rpm
 - Thrust Bearing, Active: Tilting-Pad
 - Thrust Bearing, Inactive: Fixed Tapered Land
- Power Turbine
 - 2-Stage, Reaction
 - Max. Speed: 8855 rpm
 - Full Tilting-Pad Thrust Bearing
- Journal Bearings
 - Tilting-Pad
- Coatings
 - Compressor: Inorganic Aluminum
 - Turbine and Nozzle Blades: Precious Metal Diffusion Aluminide
- Vibration Transducer Type
 - Proximity Probes

Key Package Features

- Driver Skid with Drip Pans
- Driven Equipment Skid
 - Multi-Stage Compressor Options, Single-Body or Tandem Compressor Configurations
 - Pipeline Compressor Options
 - Compressor Auxiliary Systems
- Compressors
 - 316L Stainless Steel Piping ≤4" dia.
 - Compression-Type Tube Fittings
- Electrical System Options
 - NEC, Class I, Group D, Div 1, or Div 2
 - ATEX, Zone 2
 - CENELEC, Zone 1
- Turbotronic™ Microprocessor Control System
 - Onskid Control System (Div 2 or ATEX, Zone 2)
 - Freestanding Control Console
 - Color Video Display
 - Vibration Monitoring
- Control Options
 - 120-VDC Accessory Battery/Charger System
 - Gas Turbine and Package Temperature Monitoring
 - Serial Link Supervisory Interface
 - Turbine Performance Map
 - Compressor Performance Map
 - Historical Displays
 - Printer/Logger
 - Remote Monitoring and Diagnostics Option
 - Process Controls
 - Compressor Anti-Surge Control
 - Field Programming
 - Predictive Emissions Monitoring
- Start Systems
 - Pneumatic
 - Direct-Drive AC
- Natural Gas Fuel System
- Integrated Lube Oil System
 - Turbine-Driven Accessories
 - AC Motor-Driven Accessories
- Oil System Options
 - Oil Cooler
 - Oil Heater
 - Tank Vent Separator
 - Flame Trap
- Package Skid Design
 - Accommodates Mars® and Titan Turbines
 - Optional Modifications for Floating Production Applications
 - Drop-In Lube Oil Tank
 - Modularized System Design
- Axial Compressor Cleaning Systems
 - On-Crank
 - On-Crank/On-Line
 - Portable Cleaning Tank
- Gearbox (if applicable)
 - Speed Increaser
 - Speed Decreaser
- Air Inlet and Exhaust System Options (Carbon or Stainless Steel)
- 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 Manuals

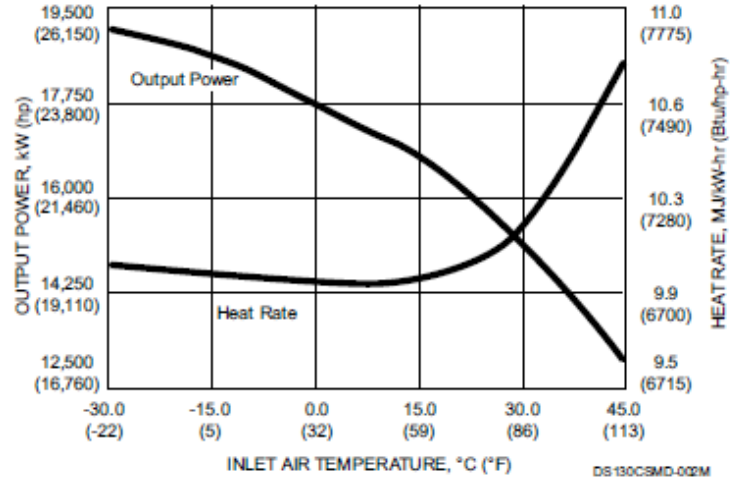
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Performance

Output Power	16 770 kW (22,490 hp)
Heat Rate	9930 kJ/kW-hr (7020 Btu/hp-hr)
Exhaust Flow	201 970kg/hr (445,265 lb/hr)
Exhaust Temp.	495°C (920°F)

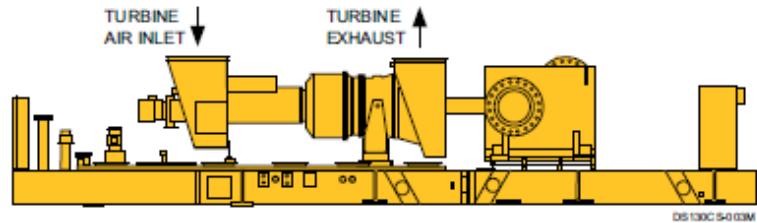
Nominal rating – per ISO
At 15°C (59°F), at sea level
No inlet/exhaust losses
Relative humidity 60%
Natural gas fuel with
LHV = 35 MJ/m³ (940 Btu/scf)
Optimum power turbine speed
AC-driven accessories
Engine efficiency: 36.3%

Available Power*



Package Dimensions*

Length: 9.8 m (32' 0")
Width: 3.1 m (10' 2")
Height: 3.2 m (10' 4")
Typical Weight: 38 555 kg (85,000 lb)



*Driver package only, dry weight,
unenclosed height

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