

GT 200

HEATING UNIT



GENTEX.CA

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HIGH EFFICIENCY DIESEL FIRED 200M



HEATER

- 85%+ High Efficiency based on "High Fire Test Report"
- Output Rating 20,000,000 BTU
- Three temperature gauges – one mounted at stack to measure exhaust temperature, one mounted on intermediate coil for coil temperature, and one mounted to measure discharge temperature
- High temperature shutdown – Thermostatically controlled positive action, direct control shutdown, temperature probe shall extend into the inner coil in the heater(tub) end
- Heat to be supplied horizontally allowing for two pass heat transfer over the three cylindrical coils.
- Plenum Chamber exhaust
- Three Cylindrical Coils (Size 3 inch – A106B/Schedule 40) containing no more than 46 internal welds
- Chrome "T" shaped stack preventing rain ingress (Protection from the elements)
- Hydraulically Driven Combustion Air Blower Fan
- Hydraulically Driven Fuel Pump
- Fuel Pump Pressure Gauge
- Intrinsically Safe Electronic Ignition
- CO₂ Fire Prevention provided on heater
- Removable inspection plate on heater front face plate
- Two sight glasses
- Atomizing Air and Fuel Pressure gauge

Low Pressure Pumps

Hydraulically driven low pressure pumps consisting of:

- Circulation Pump 4x3 Centrifugal Pump
- Maximum Pressure – 175 PSI & Maximum RPM – 3000 RPM
- Load/Unload Pump – Gear (helical gear design) Pump
- Maximum Pressure – 125 PSI / Maximum RPM – 750 RPM

Engine

- 250 HP (approximate) Diesel @ 2400 RPM
- Block heater – 110 V
- Batteries – (1) 12 V mounted in a battery box complete with battery disconnect switch
- Rig Saver
- 30 CFM Compressor

Crude/Storage Tank

- Specification: TC-406 (DOT 406)

- Capacity 13.2 m³
- 2 Compartments for diesel/heater fuel and freeze protection/flush
- Full Opening Hatch per compartment – 16 inch
- Vent Line – 2 inch
- Vent Line ladder at rear of unit
- Placard Mounts – Dangerous Goods
- Internal Dial Gauges – Stainless complete with Labels

Control/Safety Panel (Mounted in Control Cabin)

- Control Panel enclosed
- ESD Switch
- Electronic Throttle
- Air Toggles
- Air Pressure Gauge 0-160 PSI 2 ½"
- Hydraulic Pressure Gauge 0-5000 PSI 2 ½"
- Heater Controls Mounted on Control Panel

Hydraulics

- Hydraulic Piston Pump for Circulation/Centrifugal Pump
- Hydraulic Gear Pump for the Blower, Fuel Pump and load/unload gear pump
- Directional valves for blower and gear pump
- Hydraulic Cooler
- Hydraulic Filters
- Hydraulic Tank

Fire Extinguishers

- 50 lb CO₂
- Direct coupled to heater
- 5 lb Mounted in operator Cabin

Cabinets

- (1) Cabinet for Storage – (Approximately 24" x 24" x 24")
- (1) Cabinet for Storage – (Approximately 24" x 24" x 48")
- (1) Cabinet for Storage in Operator Cabin

Control Cabin

- Insulated & Heated
- Windows – Front (fixed) & Rear (sliding)
- Roof Vent
- Bench, Cabinet, and Shelving
- (2) Interior Roof Lights

Trailer

- 40 Ton (53 ft) Tridem Trailer – Air Ride Suspension
- Full Deck with Stairs for deck access

Centralized Digital Controls

- In cab display
- USB Recording Capabilities
- Pressure Sensors
- Temperature Sensors
- Flow Rate Display (turbine)
- Units to be displayed in Metric or Imperial

Operational Data

- Fuel Consumption rate of 167 GPH at full fire
- Flow Rates up to 1450 LPM
- Temp rise of 60°C at 1000 LPM
- Time to heat 400 bbl. Tank 0°C - 30°C in 22 minutes