

# Butler Ridge

Energy Services (2011) Ltd.



## SPECIFICATIONS:

- WATER FLOW:**
- 700 GPM @ 70 psi inlet pressure (nom)
  - 500 GPM @ 50 psi inlet pressure (nom)
  - 350 GPM @ 30 psi inlet pressure (nom)
- TEMPERATURE RISE:**
- 70° F @ 700 GPM (nom)
- FUEL RATE:**
- 4 GPM, 240 GPH @ full fire (nom)
- DIMENSIONS:**
- 53' long, 8'-6" wide, 13' high, 66,000 lbs (nom, dry heat exchanger)
- TYPE:**
- Diesel fired, dual burner, trailer mounted self contained system
  - Dual fuel burners available, operates on Diesel or Natural Gas (optional)

## Type: 38 Million BTU Frac Water Heater

- BURNER:**
- Dual burner package, **NFPA** combustion system, 19 million BTU per hour per burner
  - Pressurized fuel with low pressure air systems for atomization
  - Blower system for positive combustion air
  - LP fired pilot with spark ignition
  - Digital burner controls with programmable water temperature and burner fire rates
  - Safety shutdowns
- HEAT EXCHANGER:**
- 2"– SA106 GR B, SCH 40 pipe
  - Multi core, multi pass, low pressure design
  - Inlet and outlet manifolds within burner chamber
  - 6 x 5 hydraulic drive centrifugal water charge pump
  - Multiple 4" suction and discharge connections at rear of trailer
- BURNER CHAMBER:**
- 1/4" steel plate construction
  - Removable top with air operated hinged covers
  - 5" - 7" Ceramic fiber block insulation rated at 2300° on all surfaces. 2" on chamber lid
- FUEL TANK:**
- 2700 gal aluminum fuel tank
  - Top fill and lower pressure fill connections
  - Top manway, pressure relief valve, level gauge
  - Air operated vent valve, air operated fuel supply valve to burner
  - Manual fuel supply valve to deck engine
  - Heated and insulated tank bottom shell
- ENGINE:**
- John Deere engine with jacket water heater and aluminum enclosure
- HYDRAULIC SYSTEM:**
- 300 gal hydraulic tank
  - 4 Pump system with 2 oil coolers, valves and controls
  - System operates, water charge pump, combustion blower, fuel pump, air compressor
- AIR COMPRESSOR:**
- Rotary screw air compressor system with reservoir tanks, moisture separator, and aluminum enclosure
- TRAILER:**
- High strength drop deck frame
  - 3 Axle with air ride suspension, lift on rear axle
  - ABS brake system, led lights

