

## **Frac Water Heater Unit Specifications**

### **Type:**

- Diesel fired, dual burner, trailer mounted self contained system

### **Burner:**

- Dual burner package, **NFPA** combustion system
- 19 million BTU per hour per burner
- Pressurized fuel and pressurized air systems for fuel 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 -6x5 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
- 3" Ceramic fiber insulation rated at 2300 deg on all surfaces including top

### **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:**

- Caterpillar C9 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

**Performance**

**Water flow:**

- 850 GPM @ 50 PSI inlet pressure (nom)
- 550 GPM @ 30 PSI inlet pressure (nom)
- 400 GPM @ 20 PSI inlet pressure (nom)

**Temperature Rise:**

- 70 Deg F @ 850 GPM (nom)
- 100 Deg @ 500 GPM (nom)

**Fuel rate:**

- 4.3 GPM, 258 GPH @ full fire (nom)

**Dimensions:**

- 45' Long, 8'-6" Wide, 13' High,
- 66,000 lbs (nom, dry heat exchanger)