

Dual Electric Power Unit

Key Benefits and Features

- Constructed to satisfy the needs of casing tongs, tubing tongs, and the Hawkjaw drill pipe tool by using constant horsepower variable displacement pumps
- Increases reliability by the use of two identical pump/motor combinations
- Either pump can be used independently of the other in the event of a failure
- Casing tongs can operate at full speed and achieve full torque by using both pumps
- Using either pump independently allows casing tongs to achieve full torque at a reduced speed
- Tubing tongs and Hawkjaw will run in normal mode with either pump
- Approved for use in API, NEC, and CSA Class 1-Division 1 Group C/D areas



Use in the following applications:

Deepwater and ultra-deepwater

Mid-water shelf

Land

Specifications

Length x Width x Height	96 x 75 x 64 inches [2,440 x 1,905 x 1,626 millimeters]
Weight	8,000 pounds [3,630 kilograms]
Max Flow	68 gpm [257 l/m]
Max Pressure	3,000 psi [207 bar]
Electrical	480 volts, 60 cycle, and 3-phase power / 150 amp
Hydraulic Tank Capacity	150 gallons [568 liters]
Prime Power	Two 40 horsepower explosion-proof electric motors
Pump 1 (Use for tubing tongs and casing tongs)	34 gpm @ 2,950 psi [128 l/m @ 203 bar]
Pump 2 (Use for Hawk Jaw and casing tongs)	34 gpm @ 2,600 psi [128 l/m @ 179 bar]

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Oil Cooler

- Two pass air-cooler with an explosion proof electric motor.
- A thermal switch in the oil reservoir activates the cooling fan.
- Start up temperature is 130° F.
- The cooler may be activated manually by using the three-way selector switch installed in the control panel door.

Hydraulic Oil Heater

- A 6 kilowatt immersion type oil heater with integral thermostat is mounted on the right lower corner of the oil reservoir.
- Maximum thermostat setting is 100° F.

Hoses

- Two 50 foot X 1 inch two wire braid hydraulic hoses with quick disconnect (female) coupling pressure.
- Two 50 foot X 1 1/4 inch two wire braid hydraulic hoses with quick disconnect (male) coupling return.
- One 50 foot X 1 inch two-wire braid hydraulic hose with quick disconnect coupling spare.
- One return port for equipment case drain hoses.

Electrical Connections

- Equipped with 100 foot power cord and a remote start/stop pendant, also with 100 foot cord.
- Should be connected to a 480 volt, 3 phase, 60 hertz electrical supply by a qualified electrician.

Lifting Procedures

- The dual electric power unit can be lifted with either a forklift truck or overhead crane with a 4-part sling. Each corner of the frame has a padeye drilled for a 7/8 inch shackle.

