



PRODUCT DATA SHEET

February, 2001

THOMPSON 12HTC PUMP

GENERAL INFORMATION

This pump uses an oil-lubricated two-cylinder piston compressor that is driven by a v-belt off the shaft. A vacuum is created by forcing air through a venturi that draws air from an air/water separator. A float operated valve installed in the separator prevents liquid but allows air to exit the separation chamber.

PERFORMANCE DATA

| | | |
|---------------------------------|-------|--------------------------------------|
| ➤ Minimum Speed: | ..... | 750 RPM (pump) 1500 RPM (engine) |
| ➤ Maximum Speed: | ..... | 1150 RPM (pump) 2300 RPM (engine) |
| ➤ Minimum Shutoff Head: | ..... | 28 feet (12 psi) ⁽¹⁾ |
| ➤ Maximum Shutoff Head: | ..... | 96 feet (42 psi) ⁽¹⁾ |
| ➤ Maximum Suction Lift: | ..... | 28 feet ⁽²⁾ |
| ➤ Minimum Flow: | ..... | 650 GPM (@ 750 RPM-Pump) |
| ➤ Maximum Flow: | ..... | 6100 GPM (@ 1150 RPM-Pump) |
| ➤ Maximum Suction Press: | ..... | 50 psi |
| ➤ Maximum Casing Press: | ..... | 75 psi |
| ➤ Maximum Temperature: | ..... | 175°F |
| ➤ Maximum Solids Size: | ..... | 3" spherical diameter |

PUMP SPECIFICATIONS

| | | |
|----------------------------------|-------|--|
| ➤ Impeller Diameter: | ..... | 15.5" diameter, four-vane, non-clogging, enclosed with rear equalizing vanes |
| ➤ Wearplate Clearance: | ..... | .025" - .040" (rear) .010" - .020" (front) |
| ➤ Bearing Lubrication: | ..... | No. 2 grease |
| ➤ Vacuum System: | ..... | Quincy 240P, V-belt driven, air-cooled, two cylinder, 5.7HP @ 60 psi, 4.00" bore x 3" stroke, 27 cfm @ 900 RPM, turbine oil lubricated |
| ➤ Mech. Seal Lubrication: | ..... | No. 2 grease |
| ➤ Dead Head Pressure: | ..... | 27psi - 28 psi (@ 1000 RPM-Pump) |

PHYSICAL SPECIFICATIONS

| | | |
|--------------------------|-------|---|
| ➤ Suction Size: | ..... | 12-inch 125# Male NPT |
| ➤ Discharge Size: | ..... | 12-inch 125# Male NPT |
| ➤ Total Weight: | ..... | 6600 lbs. |
| ➤ Overall Height: | ..... | 7'-7½" |
| ➤ Overall Width: | ..... | 6'-3½" |
| ➤ Overall Length: | ..... | 17'-1" (hitch hook to end suction pipe) 16'-5" (hitch hook to rear of trailer) |

MATERIAL SPECIFICATIONS

| | | |
|---------------------------------|-------|----------------------------|
| ➤ Pump Casing/Head: | ..... | Cast Iron |
| ➤ Shaft Sleeve: | ..... | 304 stainless steel |
| ➤ Wearplates: | ..... | Cast iron |
| ➤ Mechanical Seal Faces: | ..... | Tung. Carb / Tung. Carb |
| ➤ Pump Shaft: | ..... | SAE 4140 |
| ➤ Elastomers: | ..... | Viton |
| ➤ Impeller: | ..... | Ductile iron, 65-45-12 |
| ➤ Discharge Check Valve: | ..... | C.I. / Brass seat / Buna-N |

ENGINE SPECIFICATIONS

| | | |
|-------------------------------|-------|---|
| ➤ Engine Make/Model: | ..... | John Deere 6068T-155 |
| ➤ Max. Continuous BHP: | ..... | 127 HP @ 1800 RPM |
| ➤ Crankcase Oil: | ..... | 20 qts SAE15W-40 ⁽³⁾ |
| ➤ Oil Press @ 850 RPM: | ..... | 15 psi min. |
| ➤ Safety Shutdowns: | ..... | High coolant temperature & low oil pressure |
| ➤ Grease Lubrication: | ..... | No. 2 ⁽³⁾ |
| ➤ Fuel Capacity: | ..... | 81 gallons of No. 2 diesel |
| ➤ Fuel Consumption: | ..... | 4.9 gal/hr @ 2200 engine RPM |
| ➤ Run Time: | ..... | 16 hours ⁽⁴⁾ at 2200 engine rpm |
| ➤ Coolant Type: | ..... | 12 qts 50/50 water/antifreeze |
| ➤ Slow Idle Speed: | ..... | 850 RPM |
| ➤ Number of Cylinders: | ..... | Six |
| ➤ Bore x Stroke: | ..... | 4.19"x5.00" |
| ➤ Fuel Filter: | ..... | John Deere RE60021 |
| ➤ Oil Filter: | ..... | John Deere RE59754 |
| ➤ Engine Air Filter: | ..... | John Deere CO105017 |

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity.
- ⁽²⁾ Depends on flowrate and pump speed. See pump curve.
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ Run time increases with reduced speed.

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