



PRODUCT DATA SHEET

January, 2001

THOMPSON 8TSC 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 which 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:	- 1000 rpm
➤ Maximum Speed:	- 2200 rpm
➤ Minimum Shutoff Head:	- 33 feet (14 psi) ⁽¹⁾ @ 1000 rpm
➤ Maximum Shutoff Head:	- 132 feet (57 psi) ⁽¹⁾ @ 2200 rpm
➤ Maximum Suction Lift:	- 28 feet ⁽²⁾
➤ Minimum Flow:	- 600 gpm
➤ Maximum Flow:	- 2,250 gpm
➤ Maximum Suction Press:	- 100 psi
➤ Maximum Casing Press:	- 60 psi (Thompson OT200)
➤ Maximum Temperature:	- 250°F
➤ Maximum Solids Size:	- 3.35" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	- 12.00" diameter, two-vane, semi-open with full shroud and rear equalizing vanes
➤ Wearplate Clearance:	- 0.025" – 0.040" (rear) 0.010" – 0.020" (front)
➤ Bearing Lubrication:	- Grease
➤ Vacuum System:	- Quincy 216P, V-belt driven, air-cooled, two-cylinder, 3.5 HP @ 60 psi, 3.00" bore x 2.50" stroke
➤ Mech. Seal Lubrication:	- Grease lubricated

PHYSICAL SPECIFICATIONS

➤ Suction Size:	- Eight inch
➤ Discharge Size:	- Eight inch
➤ Total Weight:	- 4,300 ⁽⁴⁾ lbs. dry (est.)
➤ Overall Height:	- 7'-6"
➤ Overall Width:	- 6'-0"
➤ Overall Length:	- 13'-0"

OPTIONS

➤ Autostart System:	- Murphy ASM 150
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MATERIAL SPECIFICATIONS

➤ Casing/Volute:	- Class 30 cast iron
➤ Shaft Sleeve:	- 304 stainless steel
➤ Wearplate:	- Class 30 cast iron
➤ Mechanical Seal Faces:	- Tungsten carb / tungsten carb
➤ Pump Shaft:	- Carbon steel
➤ Elastomers:	- Viton
➤ Impeller:	- Ductile iron
➤ Venturi:	- Bronze

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	- John Deere 4045T-125
➤ Max. Continuous BHP:	- 105 hp @ 2000 rpm
➤ Crankcase Oil:	- SAE10W40 ⁽³⁾
➤ Crankcase Oil Capacity:	- 14 quarts
➤ Oil Press @ 950 RPM:	- 15 psi min.
➤ Safety Shutdowns:	- High water temperature & low oil pressure
➤ Grease Lubrication:	- No. 2 ⁽³⁾
➤ Fuel Capacity:	- 66 gallons
➤ Fuel Consumption:	- 3.9 gal/hr @ 1800 rpm
➤ Fuel Type:	- Grade No. 2 diesel
➤ Combustion System:	- Turbocharged, direct injection
➤ Run Time:	- 15 hours at 1800 rpm
➤ Coolant Type:	- 50/50 water/antifreeze
➤ Slow Idle Speed:	- 950 rpm
➤ Number of Cyinders:	- Four
➤ Bore x Stroke:	- 4.19"x5.00" (279 cu. in. total)
➤ Fuel Filter:	- John Deere RE60021
➤ Oil Filter:	- John Deere RE59754
➤ Engine Air Filter:	- John Deere C085004

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity.
- ⁽²⁾ Depends on flowrate and pump speed.
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ Includes weight of trailer (no fuel), pump and engine.

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