



PRODUCT DATA SHEET

January, 2001

THOMPSON 4TSC PUMP

(EXCLUDING PUO4070 – PUO4075)

GENERAL INFORMATION

This pump uses an oil-lubricated two-cylinder piston compressor that is driven by v-belt off the shaft. Forcing air through an air/water separator creates a vacuum. 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:	-	2000 rpm
➤ Minimum Shutoff Head:	-	30 feet (13 psi) ⁽¹⁾ @ 1000 RPM
➤ Maximum Shutoff Head:	-	112 feet (48 psi) ⁽¹⁾ @ 2000 RPM
➤ Maximum Suction Lift:	-	28 feet ⁽²⁾
➤ Minimum Flow:	-	125 gpm (@ 1000 RPM)
➤ Maximum Flow:	-	925 gpm (@ 2000 RPM)
➤ Maximum Suction Press:	-	50 psi
➤ Maximum Casing Press:	-	60 psi
➤ Maximum Temperature:	-	175°F
➤ Maximum Solids Size:	-	3" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	-	9.74" 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:	-	No. 2 grease
➤ Vacuum System:	-	Quincy 216P, V-belt driven, air-cooled, two-cylinder, 2.85 HP @ 60 psi, 3.00" bore x 2.50" stroke, 12.5 cfm @ 900 RPM, turbine oil lubricated
➤ Mech. Seal Lubrication:	-	No. 2 grease
➤ Dead Head Pressure:	-	
@ 1600 RPM:	-	28 psi – 30 psi
@ 1800 RPM:	-	37 psi – 39 psi

PHYSICAL SPECIFICATIONS

➤ Suction Size:	-	Four-inch 125# Male NPT
➤ Discharge Size:	-	Four-inch 125# Male NPT
➤ Total Weight:	-	3000 lbs. (approx.) ⁽⁴⁾
➤ Overall Height:	-	6'-3"
➤ Overall Width:	-	6'-3½"
➤ Overall Length:	-	11'-4"

MATERIAL SPECIFICATIONS

➤ Casing/Volute:	-	Cast iron
➤ Shaft Sleeve:	-	304 stainless steel
➤ Wearplate:	-	Cast iron, rubber lined
➤ Mechanical Seal Faces:	-	Tungsten / tungsten
➤ Vacuum Chamber:	-	Carbon Steel
➤ Venturi:	-	Bronze
➤ Pump Shaft:	-	SAE 4140
➤ Elastomers:	-	Viton
➤ Impeller:	-	Ductile iron, 65-45-12
➤ Discharge Check Valve:	-	C.I./Brass seat/Buna N
➤ Suction Check Valve:	-	Two-ply Nitrile, canvas reinforced & weighted

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	-	John Deere 4045D-85
➤ Max. Continuous BHP:	-	63 hp @ 1800 rpm
➤ Crankcase Oil:	-	9 quarts of SAE 15W40 ⁽³⁾
➤ Oil Press @ 900 RPM:	-	15 psi min.
➤ Safety Shutdowns:	-	High coolant temperature & low oil pressure
➤ Grease Lubrication:	-	No. 2 ⁽³⁾
➤ Fuel Capacity:	-	51 gallons of No.2 diesel
➤ Run Time:	-	24 hours
➤ Coolant Capacity/Type:	-	9 qt. 50/50 water/antifreeze
➤ Slow Idle Speed:	-	850 rpm
➤ Number of Cyinders:	-	Four
➤ Bore x Stroke:	-	4.19"x5.00"
➤ Fuel Filter:	-	John Deere RE60021
➤ Oil Filter:	-	John Deere RE59754
➤ Engine Air Filter:	-	John Deere CO85041
➤ Compressor Air Filter:	-	Thompson Q29-110377E075
➤ Compressor Oil Filter:	-	Thompson Q29-216PF

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, pump and engine

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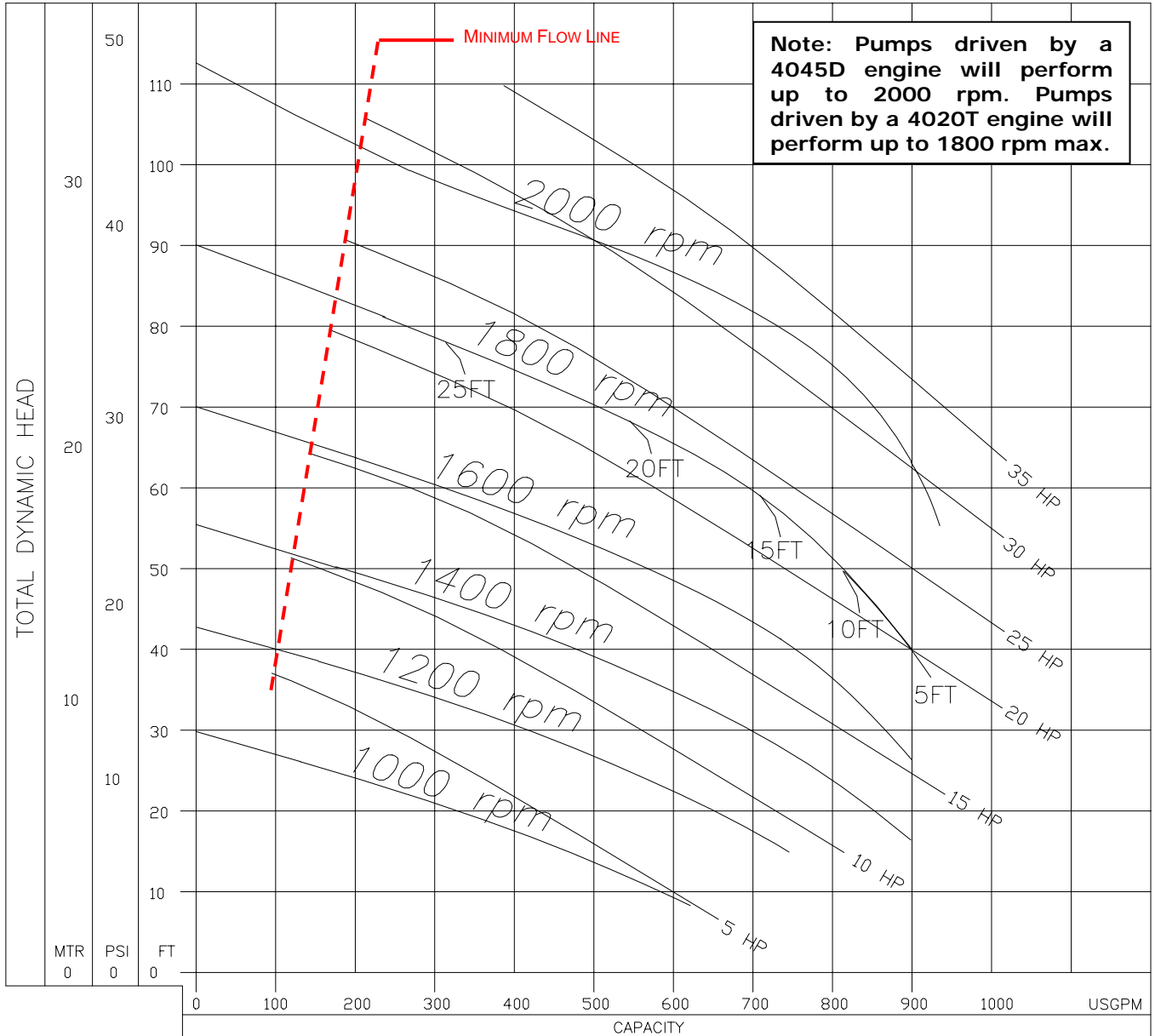
Locations nationwide
(866) PUMPS-12

Product Performance Curve

THOMPSON MODEL 4TSC OPEN TRASH SEWAGE PUMP

January, 2001

Impeller Dia.	Style	No. Vanes	Solids Dia.	Suction	Discharge	Weight
9.74"	SEMI-OPEN	2	3.0"	4"	4"	440 LBS.



<p>TEST CONDITIONS: Fluid: Water S.G.: 1.0 Temperature: 68°F (20°C) Altitude: Sea Level Viscosity: 31.5 SSU</p>	<p>THOMPSON PUMP & MANUFACTURING CO., INC. P.O. Box 291370, Port Orange, Florida 32129-1370 (904) 767-7310 Fax: (904) 761-0362</p>
<p>Pump Speed Ratings: Continuous Duty: 1800 rpm Intermittant Duty: 2000 rpm</p>	