



PRODUCT DATA SHEET

June, 2000

THOMPSON 10JSC PUMP

GENERAL INFORMATION

This pump uses an oil-lubricated two-cylinder piston compressor that is driven by v-belt off the shaft. A vacuum is created by forcing air through an air/water separator. A float operated valve installed in the separator prevents liquid but allows air to exit the separation chamber. This pump develops higher discharge pressures than trash pumps due to the wear ring and closed impeller design.

PERFORMANCE DATA

➤ Minimum Speed:	.....	1400 RPM
➤ Maximum Speed:	.....	1800 RPM
➤ Minimum Shutoff Head:	.....	88 feet (38 psi) ⁽¹⁾
➤ Maximum Shutoff Head:	.....	139 feet (60 psi) ⁽¹⁾
➤ Maximum Suction Lift:	.....	28 feet ⁽²⁾
➤ Minimum Flow:	.....	500 GPM
➤ Maximum Flow:	.....	3500 GPM
➤ Maximum Suction Press:	.....	100 psi
➤ Maximum Casing Press:	.....	160 psi
➤ Maximum Temperature:	.....	175°F
➤ Maximum Solids Size:	.....	3.38" spherical

PUMP SPECIFICATIONS

➤ Impeller Diameter:	.....	12.00" diameter, two-vane, enclosed with rear equalizing vanes
➤ Wear Ring Clearance:	.....	0.010" -0.020"
➤ Bearing Lubrication:	.....	Turbine oil ISO VG32 grade (5W20 or 10W30 motor oil can be used)
➤ Vacuum System:	.....	Quincy 240P, V-belt driven, air-cooled, two-cylinder compressor; modular design bronze venturi
➤ Mech. Seal Lubrication:	.....	Oil lubricated

PHYSICAL SPECIFICATIONS

➤ Suction Size:	.....	Ten inch
➤ Discharge Size:	.....	Ten inch
➤ Total Weight:	.....	5,400 lbs.
➤ Overall Height:	.....	7'-6"
➤ Overall Width:	.....	6'-0"
➤ Overall Length:	.....	14'-3"

MATERIAL SPECIFICATIONS

➤ Pump Casing/Head:	.....	Class 30 fine grain cast iron
➤ Shaft Sleeve:	.....	416 stainless steel
➤ Wear Ring:	.....	Class 30 cast iron
➤ Mechanical Seal Faces:	.....	Tungsten carb. / silicon carb.
➤ Pump Shaft:	.....	Steel
➤ Elastomers:	.....	Nitrile (Buna N)
➤ Impeller:	.....	Class 30 cast iron

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	.....	John Deere 6068D-125
➤ Max. Continuous BHP:	.....	94 @ 1800 RPM
➤ Crankcase Oil:	.....	SAE 10W40 ⁽³⁾
➤ Crankcase Oil Capacity:	.....	18 quarts
➤ Oil Press @ 850 RPM:	.....	15 psi minimum
➤ Safety Shutdowns:	.....	High water temperature & low oil pressure
➤ Grease Lubrication:	.....	No. 2 ⁽³⁾
➤ Fuel Capacity:	.....	73 gallons
➤ Fuel Consumption:	.....	~3.5 gal/hr @ 1800 RPM
➤ Fuel Type:	.....	Grade No. 2 diesel
➤ Combustion System:	.....	Natural aspiration, direct inject.
➤ Noise Level :	.....	98 dbA @ 1 meter
➤ Run Time:	.....	20 hours ⁽⁴⁾ at 1800 rpm
➤ Coolant Type:	.....	50/50 water/antifreeze
➤ Slow Idle Speed:	.....	850 RPM
➤ Number of Cylinders:	.....	Six
➤ Bore x Stroke:	.....	4.19"x5.00" (414 cu. in. total)
➤ Fuel Filter:	.....	F91-RE50455-001
➤ Oil Filter:	.....	F91-RE59754
➤ Engine Air Filter:	.....	F91-C105004-000

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity.
- ⁽²⁾ Depends on flowrate and pump speed.
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ Per full fuel tank of 73 gallons.

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