



PRODUCT DATA SHEET

February, 2001

THOMPSON 8JSC PUMP

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. Base model pump is Cornell 6NHTB.

PERFORMANCE DATA

➤ Minimum Speed:	-	1200 rpm
➤ Maximum Speed:	-	1800 rpm
➤ Minimum Shutoff Head:	-	130 feet (56 psi) ⁽¹⁾ (@ 1200 RPM)
➤ Maximum Shutoff Head:	-	300 feet (130 psi) ⁽¹⁾ (@ 1800 RPM)
➤ Maximum Suction Lift:	-	28 feet ⁽²⁾
➤ Minimum Flow:	-	500 gpm
➤ Maximum Flow:	-	4600 gpm
➤ Maximum Suction Press:	-	100 psi
➤ Maximum Casing Press:	-	175 psi
➤ Maximum Temperature:	-	175 °F
➤ Maximum Solids Size:	-	3 3/8" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	-	16" diameter, cast iron, two-vane, non-clogging, enclosed and rear equalizing vanes
➤ Wear ring Clearance:	-	Single suction, requires no adjustment, replaceable
➤ 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 2.5" stroke, 12.5 cfm @ 900 RPM, turbine oil lubricated
➤ Mech. Seal Lubrication:	-	Run-dry oil lubricated
➤ Dead Head Pressure:	-	
@ 1600 RPM:	-	101 psi - 104 psi
@ 1800 RPM:	-	126 psi - 130 psi

PHYSICAL SPECIFICATIONS

➤ Suction Size:	-	10-inch 125# Male NPT
➤ Discharge Size:	-	8-inch 125# Male NPT
➤ Total Weight:	-	6000 lbs. (approx.) ⁽⁴⁾
➤ Overall Height:	-	7'-2"
➤ Overall Width:	-	6'-3 1/2"
➤ Overall Length:	-	15'-2"

MATERIAL SPECIFICATIONS

➤ Casing/Volute:	-	Cast iron
➤ Shaft Sleeve:	-	416 stainless steel
➤ Wear ring:	-	Cast iron
➤ Mechanical Seal Faces:	-	Tungsten Carbide / Silicon Carbide
➤ Vacuum Chamber:	-	Carbon Steel
➤ Venturi:	-	Bronze
➤ Pump Shaft:	-	SAE 1144
➤ Elastomers:	-	Viton
➤ Impeller:	-	Cast iron
➤ Discharge Check Valve:	-	C.I./Brass seat/Buna N
➤ Suction Check Valve:	-	None

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	-	John Deere 6081AP2-225
➤ Max. Continuous BHP:	-	219 hp @ 1800 rpm
➤ Crankcase Oil:	-	33.75 Qt. of SAE15W-40 ⁽³⁾
➤ Oil Press @ 850 RPM:	-	30 psi min.
➤ Safety Shutdowns:	-	High coolant temperature & low oil pressure
➤ Grease Lubrication:	-	No. 2
➤ Fuel Capacity:	-	73 gallons
➤ Run Time:	-	7 1/2 hours @ 1800 rpm
➤ Coolant Capacity/Type:	-	60 qt. 50/50 water/antifreeze
➤ Slow Idle Speed:	-	850 rpm
➤ Number of Cylinders:	-	Six
➤ Bore x Stroke:	-	4.56"x 5.06"
➤ Fuel Filter:	-	John Deere AR86745
➤ Oil Filter:	-	John Deere RE57394
➤ Engine Air Filter:	-	John Deere G140054
➤ 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