

PRODUCT DATA SHEET

November, 2009

6" DIGESTER HYDRAULIC SUBMERSIBLE PUMP & 400D* POWER UNIT

GENERAL INFORMATION

The hydraulic power unit (HPU) is located high above the pump and connected via hydraulic hoses. The pump is submerged in the liquid being pumped and is powered by circulating hydraulic fluid. Suction lift and priming are not considerations. This pump can run dry without damage. *CAUTION: HYDRAULIC FLUID IS UNDER HIGH PRESSURE.*

*Improved performance available with 600D HPU – see pump curve.

PERFORMANCE DATA

| | | |
|----------------------------|-------|---|
| » Flow (min/max): | ..... | 100 gpm / 1750 gpm |
| » Shutoff Head: | ..... | 65' (28 psi) ⁽¹⁾ (49' @ 1800RPM) |
| » Design Speed: | ..... | 2200 rpm max (1800 norm.) |
| » Maximum Volute Pressure: | ..... | 280 psi |
| » Maximum Temperature: | ..... | 190° F |
| » Maximum Solids Size: | ..... | 3" |

PUMP SPECIFICATIONS

| | | |
|-------------------------|-------|------------------------------|
| » Impeller Diameter: | ..... | 11.00" (semi-open) |
| » No. Impeller Vanes: | ..... | Three |
| » Discharge Connection: | ..... | 6" male NPT |
| » Pump Weight: | ..... | 348 lbs. |
| » Pump Dimensions: | ..... | Height – 41", diameter - 24" |

HPU SPECIFICATIONS

| | | |
|--------------------------------|-------|---|
| » HPU/Trailer Weight: | ..... | 4,100 lbs. ⁽²⁾ |
| » HPU/Trailer Height: | ..... | 6'-6" |
| » HPU/Trailer Width: | ..... | 5'-0" |
| » HPU/Trailer Length: | ..... | 10'-6" |
| » Hydraulic Fluid: | ..... | Chevron Clarity Hydraulic Oil AW ISO 68 (biodegradable), or equal |
| » Relief Valve Setting: | ..... | 2,500 psi |
| » Max. Hydraulic Oil Pressure: | ..... | 2500 psi |

HPU SPECIFICATIONS – con't

| | | |
|---------------------------|-------|---|
| » Oil Reservoir Capacity: | ..... | 75 gallons |
| » Hydraulic Filters: | ..... | 100 mesh suction screen & 10 Micron return filter |

MATERIAL SPECIFICATIONS

| | | |
|--------------------------|-------|----------------------|
| » Pump Volute: | ..... | Carbon steel |
| » Mechanical Seal Faces: | ..... | Carbon/Ni-hard steel |
| » Shafts: | ..... | 316 stainless steel |
| » Elastomers: | ..... | Buna N |
| » Impeller: | ..... | AR-225 steel |

ENGINE SPECIFICATIONS

| | | |
|---------------------------|-------|-----------------------------------|
| » Engine Make/Model: | ..... | John Deere 4045D |
| » Max. Continuous BHP: | ..... | 80 |
| » Crankcase Oil: | ..... | SAE 10W40 ⁽³⁾ |
| » Crankcase Oil Capacity: | ..... | 14 quarts |
| » Safety Shutdowns: | ..... | Low oil pressure/High water temp. |
| » Fuel Capacity: | ..... | 112 gallons |
| » Fuel Consumption: | ..... | 2.5 gal/hr @ 2000 RPM |
| » Fuel Type: | ..... | Grade No. 2 diesel |
| » Run Time: | ..... | 44 hours (@ 2000 RPM) |
| » Coolant Type: | ..... | 50/50 water/antifreeze mix |
| » Slow Idle Speed: | ..... | 850 rpm |
| » Number of Cylinders: | ..... | Four |
| » Fuel Filter: | ..... | John Deere RE60021 |
| » Hydraulic Oil Filter: | ..... | NAPA 1759 |
| » Engine Oil Filter: | ..... | John Deere RE59754 |
| » Engine Air Filter: | ..... | Donaldson P181054 |

Notes:

⁽¹⁾ Based on 1.0 specific gravity

⁽²⁾ Includes weight of trailer, hydraulic oil tank and engine

⁽³⁾ Midrange compromise. See John Deere manual.

HYDRAULIC SUBMERSIBLE PUMP CURVE

November, 2009

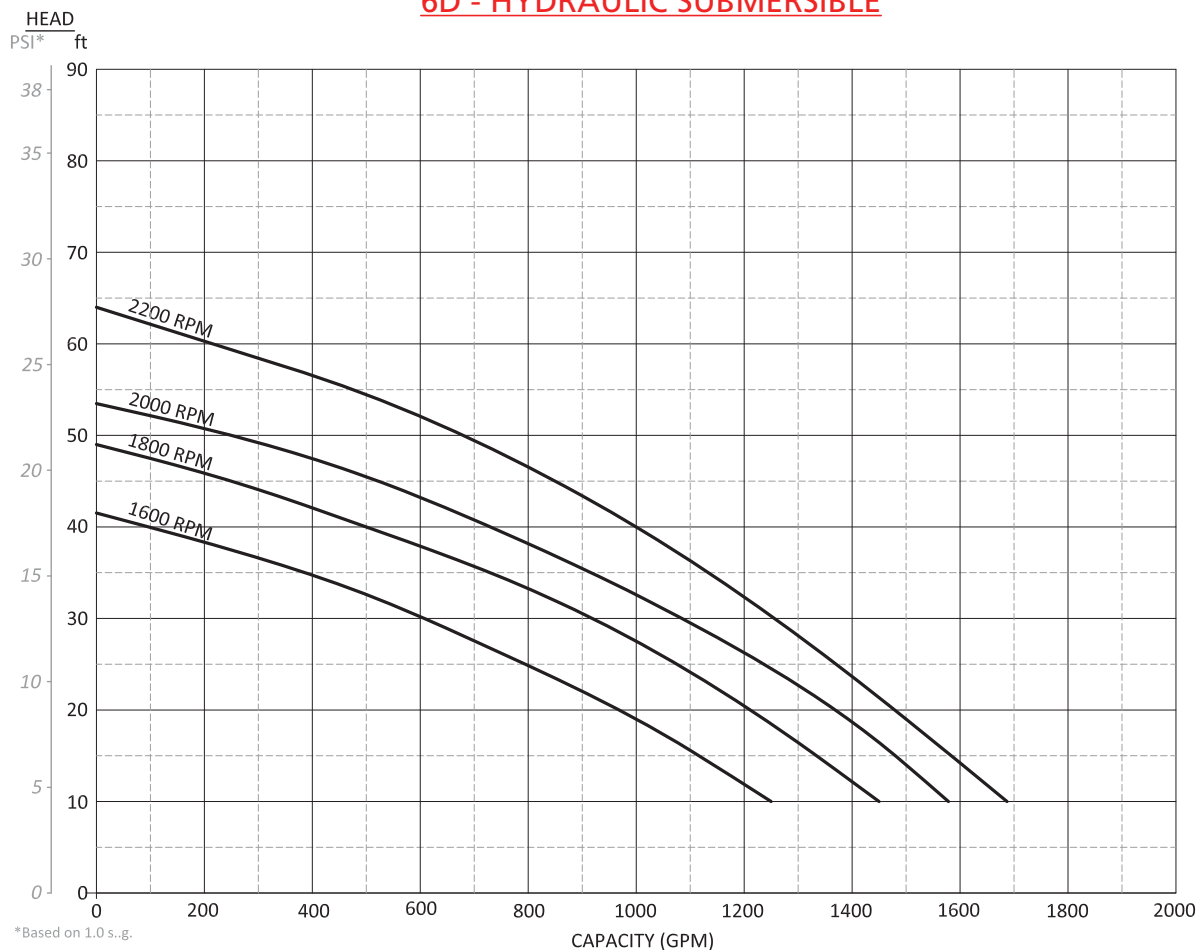
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6D - HYDRAULIC SUBMERSIBLE



| PUMP | |
|-----------|--------------|
| MODEL | 6D |
| CURVE NO. | 6D |
| SUCTION | -- |
| DISCHARGE | 6-inch |
| MAX SOLID | 3 inches |
| IMP. DIA. | 11.00 inches |
| SPEED | Various |
| MIN SPEED | 1600 RPM |

DRIVER

This pump is powered by an engine driven hydraulic power unit.

