



PRODUCT DATA SHEET

May, 2003

8" x 6" GODWIN HL6 PUMP

GENERAL INFORMATION

The compressor/ejector priming system uses a compressor to blow compressed air through a jet into a tapered tube to create a vacuum. The compressor is powered by a timing belt driven off the engine and receives lubrication from the engine's oiling system. A valve installed at the injector inlet slows down fluid entering the ejector. A screen installed at the inlet filters out debris from entering. Flexible tubing connected to the ejector exhaust directs blowby on the ground or collection source.

PERFORMANCE DATA

➤ Minimum Speed:	- 1200 rpm
➤ Maximum Speed:	- 2000 rpm
➤ Minimum Shutoff Head:	- 115 feet (50 psi) ⁽¹⁾ @ 1200 rpm
➤ Maximum Shutoff Head:	- 320 feet (138 psi) ⁽¹⁾ @ 2200 rpm
➤ Maximum Suction Lift:	- 25 feet ⁽⁶⁾
➤ Minimum Flow:	- 350 gpm
➤ Maximum Flow:	- 2250 gpm
➤ Maximum Suction Press:	- 25 psi
➤ Maximum Casing Press:	- 210 psi
➤ Maximum Temperature:	- 212°F
➤ Maximum Solids Size:	- 1-1/2" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	- 15.7", three vanes
➤ Wearplate Clearance:	- 0.015" (rear) 0.015" (front)
➤ Bearing Lubrication:	- No. 2 Grease
➤ Vacuum System:	- Piston compressor, 10 cfm, with venturi eductor
➤ Mech. Seal Lubrication:	- 1.2 pints SAE 20/20 oil
➤ Dead Head Pressure:	-
@ 1600 RPM:	85 psi – 90 psi
@ 1800 RPM:	105 psi – 112 psi
@ 2000 RPM:	130 psi – 138 psi

PHYSICAL SPECIFICATIONS

➤ Suction Size:	- Eight-inch 150# flange
➤ Discharge Size:	- Six-inch 150# flange
➤ Total Weight:	- 7400 lbs. ⁽²⁾
➤ Overall Height:	- 6'-4"
➤ Overall Width:	- 6'-0"
➤ Overall Length:	- 14'-2"

MATERIAL SPECIFICATIONS

➤ Pump Casing:	- Cast iron
➤ Shaft Sleeve:	- Nickel/Chromium
➤ Wearplates:	- 25% Cr. alloy cast iron
➤ Mechanical Seal Faces:	- Silicon carbide
➤ Separator Tank:	- Cast Iron
➤ NRV Ball and Seat:	- Nitrile rubber (Buna-N)
➤ Pump Shaft:	- Nickel/Chromium steel
➤ Elastomers:	- Nitrile (Buna-N)
➤ Impeller:	- Chromium steel
➤ NRV Body:	- Cast iron

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	- John Deere 6081
➤ Crankcase Oil:	- 30 quarts of SAE 10W40 ⁽³⁾
➤ Oil Press @ 850 RPM:	- 15 psi min.
➤ Safety Shutdowns:	- High water temperature & low oil pressure
➤ Grease Lubrication:	- No. 2 ⁽³⁾
➤ Fuel Capacity/Type:	- 100 gallons of No. 2 diesel
➤ Fuel Consumption:	- 4.80 gal/hr @ 2200 rpm
➤ Run Time:	- 20 hours + ⁽⁴⁾
➤ Coolant Type:	- 50/50 water/antifreeze
➤ Slow Idle/Rated Speed:	- 850 RPM / 2500 RPM ⁽⁵⁾
➤ Number of Cyinders:	- Six
➤ Bore x Stroke:	- 4.56" x 5.06"
➤ Fuel Filter:	- Baldwin BF959
➤ Oil Filter:	- Baldwin BT486
➤ Engine Air Filter:	- Baldwin PA2831
➤ Compressor Air Filter:	- Baldwin B474

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity
- ⁽²⁾ Includes weight of trailer, pump and engine
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ At 2200 RPM. Run time increases with reduced speed and decreases with higher speed.
- ⁽⁵⁾ **WARNING** – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is only 2200 RPM.
- ⁽⁶⁾ Depends on flowrate and pump speed.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. No guarantee of accuracy is given or implied because variations can and do exist. NO WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY BAKER PUMPS, EITHER EXPRESS OR IMPLIED.