



PRODUCT DATA SHEET

March, 2005

PA8C60-6081H
GORMAN-RUPP PUMP

GENERAL INFORMATION

The vacuum priming system uses a compressor to blow compressed air through a jet into a tapered tube to create a vacuum on the pump suction. This pump is ideal for applications that require high head and high flowrates, but has a wide range of operation.

PERFORMANCE DATA

➤ Operating Speed:	- 1000 RPM – 1800 RPM
➤ Shutoff Head:	- 358 feet (155 psi) ⁽¹⁾ @ 1800 RPM
➤ Maximum Suction Lift:	- 25 feet ⁽²⁾ (@ 2700 gpm)
➤ Minimum Flow:	- 1500 gpm @ 1800 RPM
➤ Maximum Flow:	- 5200 gpm @ 1800 RPM
➤ Maximum Casing Press:	- 230 psi
➤ Maximum Temperature:	- 160°F
➤ Maximum Solids Size:	- 3-3/8" spherical diameter

PUMP SPECIFICATIONS

➤ Impeller:	- 17.5", 6 vanes, enclosed
➤ Wear Ring Clearance:	- 0.010" – 0.020"
➤ Bearing Lubrication:	- No. 2 grease
➤ Vacuum System:	- Holset compressor & venturi
➤ Mech. Seal Lubrication:	- Oil lubricated

PHYSICAL SPECIFICATIONS

➤ Suction Size:	- 10" flange
➤ Discharge Size:	- 8" flange
➤ Total Weight:	- 7,900 lbs. ⁽³⁾
➤ Overall Height:	- 7'-10" (top of lifting bail)
➤ Overall Width:	- 5'-2" (skid to skid) 6'-2" (skid to ck va. flange)
➤ Overall Length:	- 11'-2" (skid end to skid end)

MATERIAL SPECIFICATIONS

➤ Pump Casing:	- Gray Iron
➤ Shaft Sleeve:	- Chrome Plated 416 SS
➤ Wear Rings:	- Impeller – Gray Iron No. 30 Suct. Head – Bronze C83600
➤ Mechanical Seal Faces:	- Silicon carb. / Tungsten carb.
➤ Priming Chamber:	- Gray Iron No. 30 with SS float and linkage
➤ Pump Shaft:	- Stress-proof stainless steel
➤ O-rings:	- Viton & Buna-N
➤ Impeller:	- Gray Iron No. 30
➤ Check Valve Body:	- Gray Iron No. 30
➤ Check Valve Flapper:	- Buna-N
➤ Flanges:	- Gray Iron No. 30

ENGINE SPECIFICATIONS

➤ Engine Make/Model:	- John Deere 6081H (turbo)
➤ Max. Continuous BHP:	- 300 (1600 rpm – 2200 rpm)
➤ Crankcase Oil:	- SAE 10W40 ⁽³⁾
➤ Oil Press @ 800 RPM:	- 20 psi min.
➤ Safety Shutdowns:	- High water temperature & low oil pressure
➤ Fuel Capacity/Type:	- 235 gallons diesel; Cetane No. 40 minimum req'd, Cetane No.50 preferred for temps below -4°F.
➤ Fuel Consumption:	- 13.8 gal/hr @ 1800 rpm
➤ Run Time:	- 17 hours ⁽⁴⁾ @ max speed
➤ Coolant:	- 50/50 water/antifreeze mix
➤ Number of Cylinders:	- Six
➤ Bore x Stroke:	- 4.56"x5.06"

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity
- ⁽²⁾ Includes weight of skid, pump and engine
- ⁽³⁾ Midrange compromise. See John Deere manual for low temps.
- ⁽⁴⁾ Run time increases with reduced speed.
- ⁽⁵⁾ **WARNING** – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is less. See data sheet for max pump RPM.
- ⁽⁶⁾ Depends on flowrate and pump speed. See performance curve.

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