

## PRODUCT DATA SHEET

5/8/2012

## BP88LS-CD1400T

BakerPrime 8x8 Low Pressure Solids Handling Unit (Open Trailer)

### GENERAL INFORMATION

The compressor/venturi priming system uses a compressor to blow compressed air through a jet into a tapered tube to create a vacuum on the suction.

### PERFORMANCE DATA

» Flow (min/max):	- 500 gpm / 2800 gpm
» Minimum Shutoff Head:	- 105 feet (45 psi) @ 1200 rpm (1)
» Maximum Shutoff Head:	- 275 feet (119 psi) @ 2000 rpm (1)
» Minimum Speed:	- 1200 rpm
» Maximum Speed:	- 2000 rpm
» Maximum Suction Lift:	- 25 feet (2)
» Maximum Casing Press:	- 125 psi
» Maximum Temperature:	- 190°F (7)
» Maximum Solids Size:	- 3" spherical diameter

### PUMP SPECIFICATIONS

» Impeller:	- 14"
» Bearing Lubrication:	- Grease
» Vacuum System:	- 34 cfm Compressor/Venturi
» Mechanical Seal Lube:	- SAE No. 30 Oil (3)

### PHYSICAL SPECIFICATIONS

» Suction Size:	- 8" flange
» Discharge Size:	- 8" flange
» Approximate Weight:	- 4461 lbs dry / 5100 lbs wet
» Overall Height:	- 94" (to top of exhaust muffler)
» Overall Width:	- 70" (outer most edges)
» Overall Length:	- 135" (nose to tail)

### MATERIAL SPECIFICATIONS

» Pump Casing:	- Cast Iron
» Shaft Sleeve:	- Heat Treated 416 SS
» Wear Rings:	- Cast Iron
» Mechanical Seal Faces:	- Tungsten/Silicon-Carbide
» Pump Shaft:	- 1144 SAE Stressproof
» O-rings:	- Viton
» Impeller:	- Cast Iron
» Check Valve Body:	- Gray Iron No. 30
» Check Valve Flapper:	- Buna-N

### ENGINE SPECIFICATIONS

» Engine Make/Model:	- Deere 4045H
» Total Displacement:	- 4.5 Liter
» Aspiration:	- Turbocharged
» Max. Continuous BHP:	- 140 @ 2400 rpm (4)
» Crankcase Oil:	- SAE 10W40 (5)
» Coolant:	- 50/50 Water/Antifreeze
» Safety Shutdowns:	- High Water Temp & Low Oil Pressure
» Fuel Consumption:	- 5.22 gal/hr @ 1800 rpm (6)
» Run Time:	- 22 hours at 1400 rpm at 80% Engine Load
» Fuel Capacity/Type:	- 90 gal of No. 2 diesel
» Number of Cylinders:	- Four

#### Notes:

- (1) Based on 1.0 specific gravity
- (2) Depends on flow rate, pump speed, and elevation. See performance curve.
- (3) Should always be visible and clear in appearance thru sight glass.
- (4) WARNING – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is less. See curve for max pump RPM.
- (5) Must be changed every 250 hours of runtime.
- (6) Run time fluctuates with speed and engine loads.
- (7) Equipment material limitation. Lower max temperature may be necessary due to application conditions and pump NPSH requirements.

BakerCorp Reference # 408-0101

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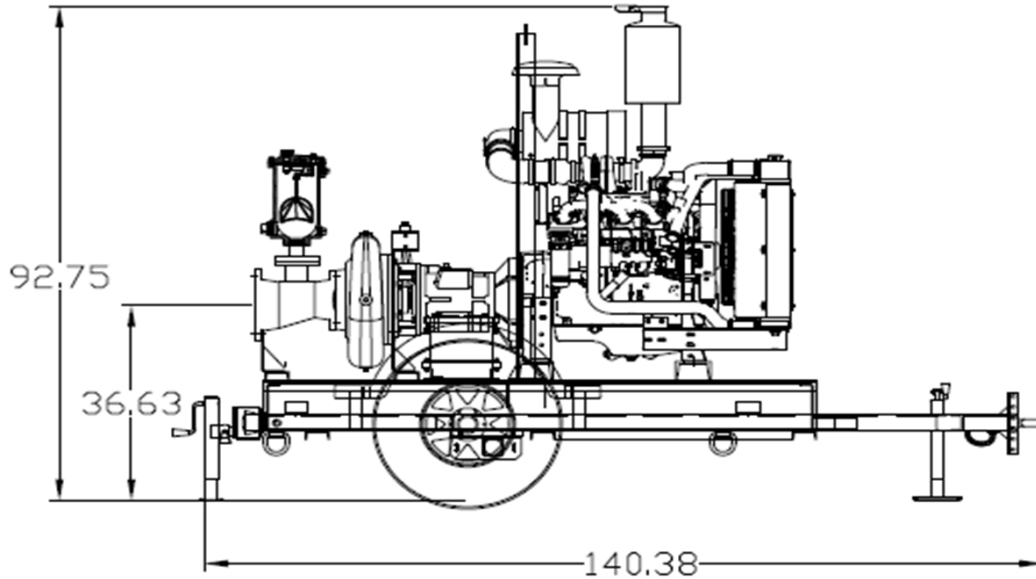
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PHYSICAL SPECIFICATIONS



PERFORMANCE CURVE

