

## PRODUCT DATA SHEET

5/7/2012

### BP84HS-CD1540T

BakerPrime 8x4 High 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):	-	625 gpm / 1600 gpm
» Minimum Shutoff Head:	-	120 feet (52 psi) @ 1000 rpm (1)
» Maximum Shutoff Head:	-	375 feet (162 psi) @ 1800 rpm (1)
» Minimum Speed:	-	1200 rpm
» Maximum Speed:	-	1800 rpm
» Maximum Suction Lift:	-	25 feet (2)
» Maximum Casing Press:	-	275 psi
» Maximum Temperature:	-	190°F (7)
» Maximum Solids Size:	-	3" spherical diameter

#### PUMP SPECIFICATIONS

» Impeller:	-	17.5"
» Bearing Lubrication:	-	Grease
» Vacuum System:	-	34 cfm Compressor/Venturi
» Mechanical Seal Lubrication:	-	SAE No. 30 Oil (3)

#### PHYSICAL SPECIFICATIONS

» Suction Size:	-	8" flange
» Discharge Size:	-	4" flange
» Approximate Weight:	-	6627 lbs dry / 7550 lbs wet
» Overall Height:	-	100" (to top of lifting eye)
» Overall Width:	-	69" (outer most edges)
» Overall Length:	-	175" (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:	-	4140/4142 HT Steel
» 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:	-	154 @ 2400 rpm (4)
» Crankcase Oil:	-	SAE 10W40 (5)
» Coolant:	-	50/50 Water/Antifreeze
» Safety Shutdowns:	-	High Water Temp & Low Oil Pressure
» Fuel Consumption:	-	5.5 gal/hr @ 1800 rpm (6)
» Run Time:	-	24 hours at 1800 rpm at 80% Engine Load
» Fuel Capacity/Type:	-	130 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 # 404-0202

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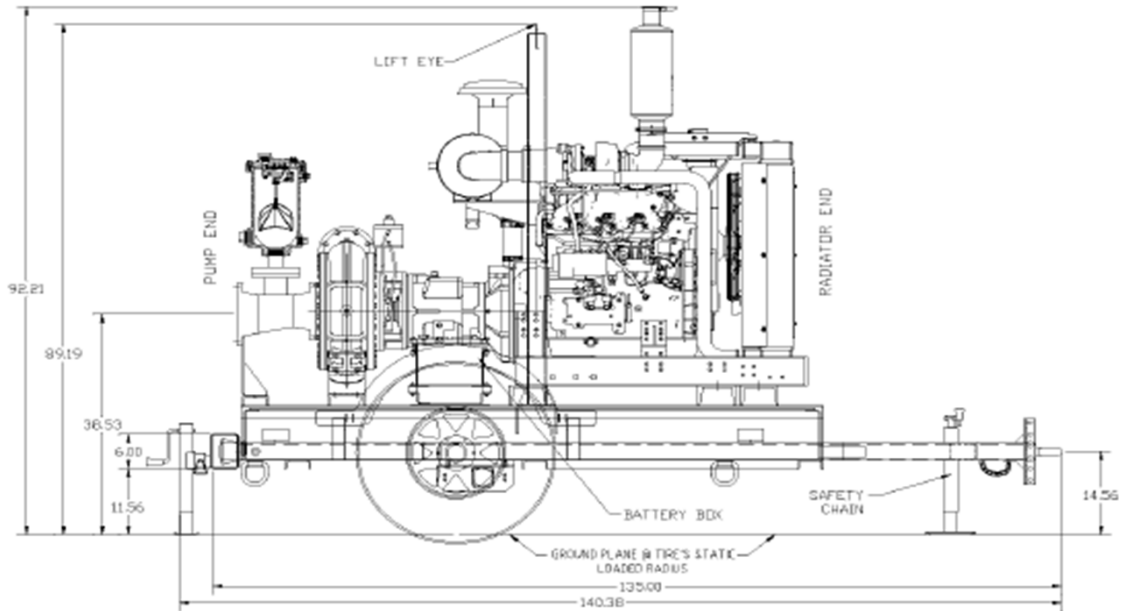
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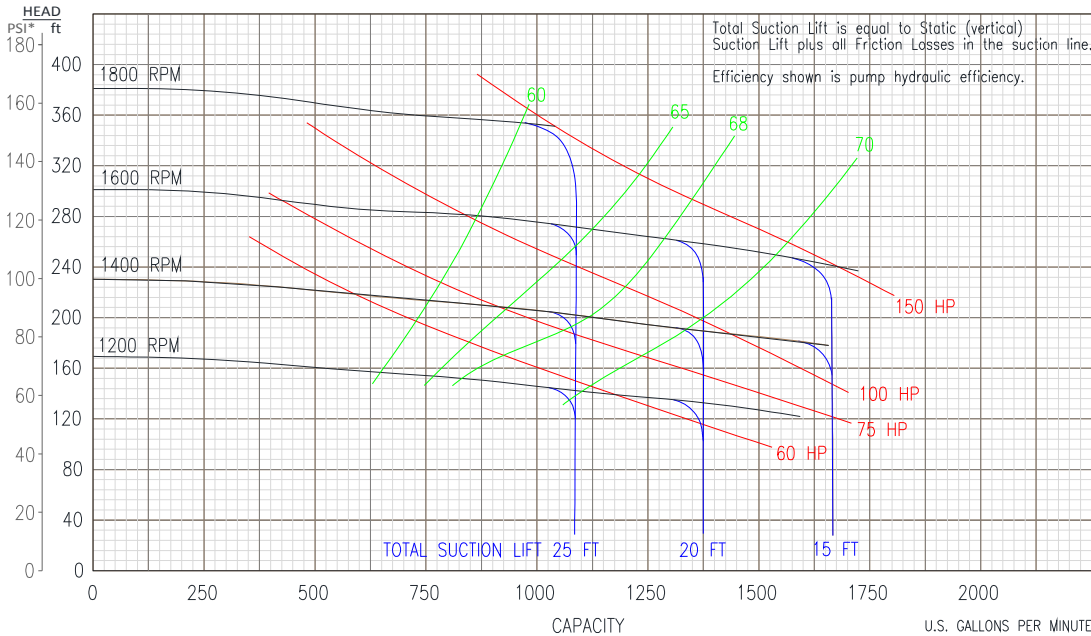
PHYSICAL SPECIFICATIONS



PERFORMANCE CURVE

**BP84HS-CD1540T**

Speed	Impeller Dia.	Style	Solids Dia.	N <sub>S</sub>	Suction	Discharge	No. vanes
VARIOUS	17.5"	ENCLOSED	3"	980	8"	4"	2



Performances shown are for cool water, frame mounted configuration with Cyclo Seal.® Other liquids or mounting configurations may require performance adjustments.

Performance curve does not include discharge check valve losses.

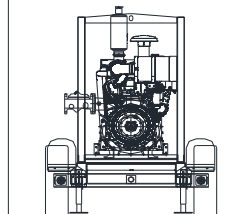
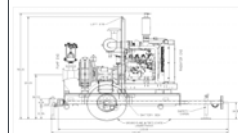
\*NOTE: CURVES BASED ON 1.0 SPECIFIC GRAVITY

**Pump**

MAKE: BAKERPRIME  
MODEL: BP84HS  
CURVE No: BP84HS-1  
SUCTION: 8 INCH  
DISCHARGE: 4 INCH  
MAX SOLID: 3 INCH  
IMP. DIA: 17.5 INCH  
MAX SPEED: 1800 RPM  
MIN SPEED: 1200 RPM

**Engine**

MAKE: John Deere  
MODEL: 4045H  
RATING: 154 HP @ 2400 RPM



3031 OLD BIRCH PARKWAY  
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