

## PRODUCT DATA SHEET

11/20/2013

## BP1212LS-CD1540S

BakerPrime 12x12 Low Pressure Solids Handling Unit (Open, Skid)

### 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):	-	2200 gpm / 7800 gpm
» Minimum Shutoff Head:	-	100 feet (43 psi) @ 1593 rpm (1)
» Maximum Shutoff Head:	-	178 feet (77 psi) @ 2124 rpm (1)
» Minimum Speed:	-	1593 rpm
» Maximum Speed:	-	2124 rpm
» Maximum Suction Lift:	-	25 feet (2)
» Maximum Casing Press:	-	225 psi
» Maximum Temperature:	-	190°F
» Maximum Solids Size:	-	4.75" spherical diameter

### PUMP SPECIFICATIONS

» Impeller:	-	19.5"
» Bearing Lubrication:	-	Grease
» Vacuum System:	-	34 cfm Compressor/Venturi
» Mechanical Seal Lubrication:	-	SAE No. 30 Oil (3)

### PHYSICAL SPECIFICATIONS

» Suction Size:	-	12" flange
» Discharge Size:	-	12" flange
» Approximate Weight:	-	9835 lbs dry / 10900 lbs wet
» Overall Height:	-	91" (to top of lifting eye)
» Overall Width:	-	75" (outer most edges)
» Overall Length:	-	174" (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:	-	154 @ 2400 rpm (4)
» Crankcase Oil:	-	SAE 10W40 (5)
» Coolant:	-	50/50 Water/Antifreeze
» Safety Shutdowns:	-	High Water Temp, Low Water Level & Low Oil Pressure
» Fuel Consumption:	-	5.5 gal/hr @ 1800 rpm (6)
» Run Time:	-	27 hours at 1800 rpm at 80% Engine Load
» Fuel Capacity/Type:	-	150 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.

BakerCorp Reference # 412-0104

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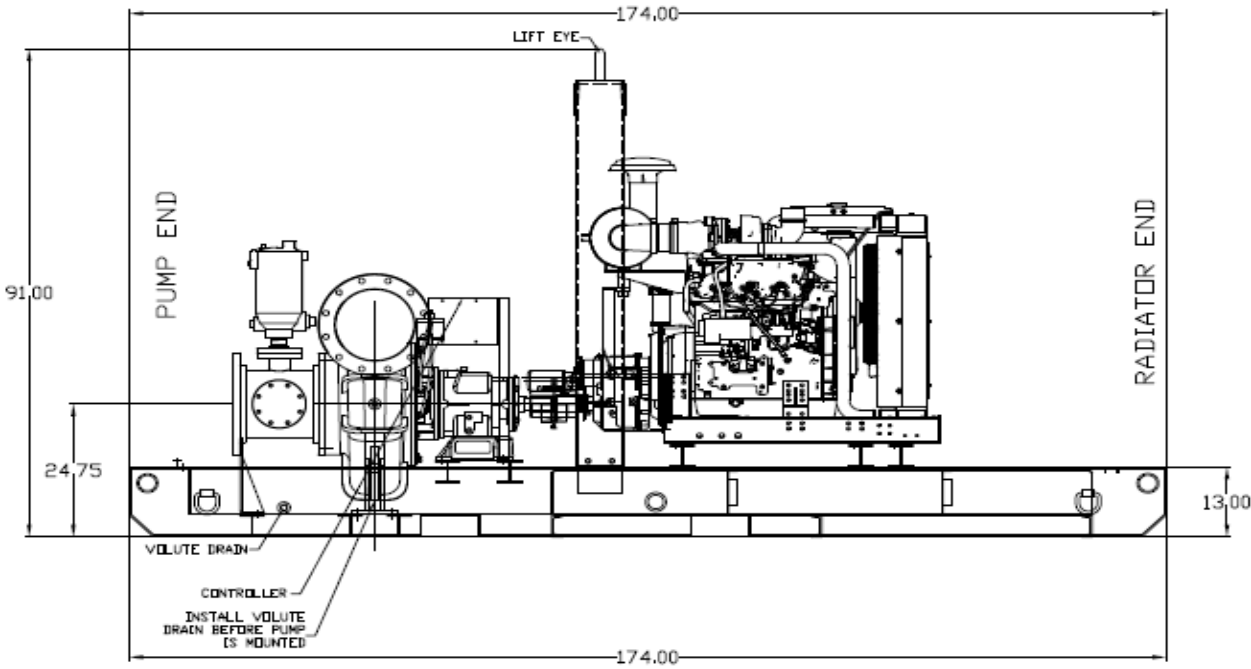
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**PHYSICAL SPECIFICATIONS**



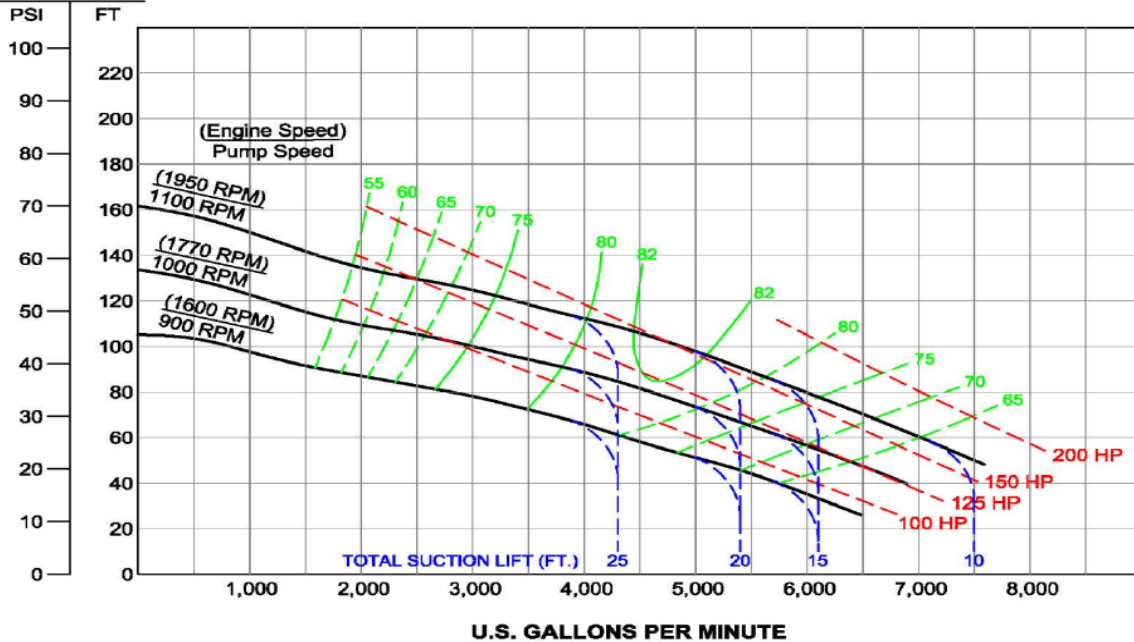
**Performance Curve**

**BP1212LS-CD154AS**

SPEED	IMP. DIA.	STYLE	SOLIDS DIA.	N.S.	SUCTION	DISCHARGE	No. VANES
VARIOUS	19.5"	ENCLOSED	4.75"	2600	12"	12"	2

Pump	
MAKE:	BAKERPRIME
MODEL:	BP1212LS
CURVE No:	BP1212LS-1
SUCTION:	12 INCH
DISCHARGE:	12 INCH
MAX SOLID:	4.75 INCH
IMP. DIA:	19.5 INCH
MAX SPEED:	1200 RPM
MIN SPEED:	900 RPM
Engine	
MAKE:	JOHN DEER
MODEL:	4045H
RATING:	154 HP @ 2400 RPM

**TOTAL HEAD**



NOTE: CURVES BASED ON 1.0 SPECIFIC GRAVITY

