

## PRODUCT DATA SHEET

November, 2010

## 12" PA-SAR SOUND ATTENUATED PUMP

### 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. Pump (PA12A60) and engine are totally enclosed by a sound-attenuated enclosure for the quietest running operation in the industry.

### PERFORMANCE DATA

» Flow (min/max):	- 1100 gpm / 6000 gpm
» Minimum Shutoff Head:	- 44 feet (19 psi) <sup>(1)</sup> @ 1400 rpm
» Maximum Shutoff Head:	- 109 feet (47 psi) <sup>(1)</sup> @ 2200 rpm
» Speed (min/max):	- Min: 1400 rpm (791 rpm pump speed) Max: 2200 rpm (1243 rpm pump speed)
» Maximum Suction Lift:	- 28 feet <sup>(6)</sup>
» Maximum Casing Pressure:	- 71 psi
» Maximum Temperature:	- 160°F
» Maximum Solids Size:	- 3" spherical diameter
» Sound Rating:	- 67 dBA at 30 feet

### PUMP SPECIFICATIONS

» Impeller:	- 15.50"
» Bearing Lubrication:	- SAE No. 30 oil
» Vacuum System:	- 34 CFM water cooled single cylinder compressor driven directly off the engine
» Mech. Seal Lubrication:	- SAE No. 30 oil

### PHYSICAL SPECIFICATIONS

» Suction Size:	- 12" flange
» Discharge Size:	- 12" flange
» Total Weight:	- 10,500 lbs. <sup>(2)</sup> approx.
» Height:	- 7'-2" (to top of enclosure) 7'-8" (to top of lifting eye)
» Width:	- 4'-6"
» Overall Length:	- 14'-10"

### MATERIAL SPECIFICATIONS

» Pump Casing:	- Gray Iron 30
» Shaft Sleeve:	- 304 stainless steel
» Wear Rings:	- Impeller – Ductile Iron Suction Head – Copper alloy C93200
» Mechanical Seal Faces:	- Silicon carbide/ Silicon carbide
» Mech. Seal O-rings:	- Buna N and Viton
» Pump Shaft:	- 17-4 PH stainless steel
» Impeller:	- Ductile Iron
» Check Valve Body:	- Ductile Iron
» Check Valve Flapper:	- Buna-N
» Flanges:	- Gray Iron No. 30

### ENGINE SPECIFICATIONS

» Engine Make/Model:	- John Deere 4045H
» Max. Continuous BHP:	- 154 @ 2200 RPM <sup>(5)</sup>
» Crankcase Oil:	- SAE 10W40 <sup>(3)</sup>
» Safety Shutdowns:	- High water temperature, low coolant level & low oil pressure
» Fuel Capacity/Type:	- 150 gallons of No. 2 diesel
» Fuel Consumption:	- 5.3 gal/hr @ max. h.p. required
» Run Time:	- 28+ hours <sup>(4)</sup> @ max h.p. required
» Coolant:	- 9 qts 50/50 water/antifreeze
» Number of Cylinders:	- Four

### ENCLOSURE

➤ Enclosure is made from Galvaneal. Hinged doors on each side provide easy interior access for servicing. Soundproof insulation provides the quietest operation in the industry, and the entire unit, including controls, can be locked for added security for unattended automatic operation.

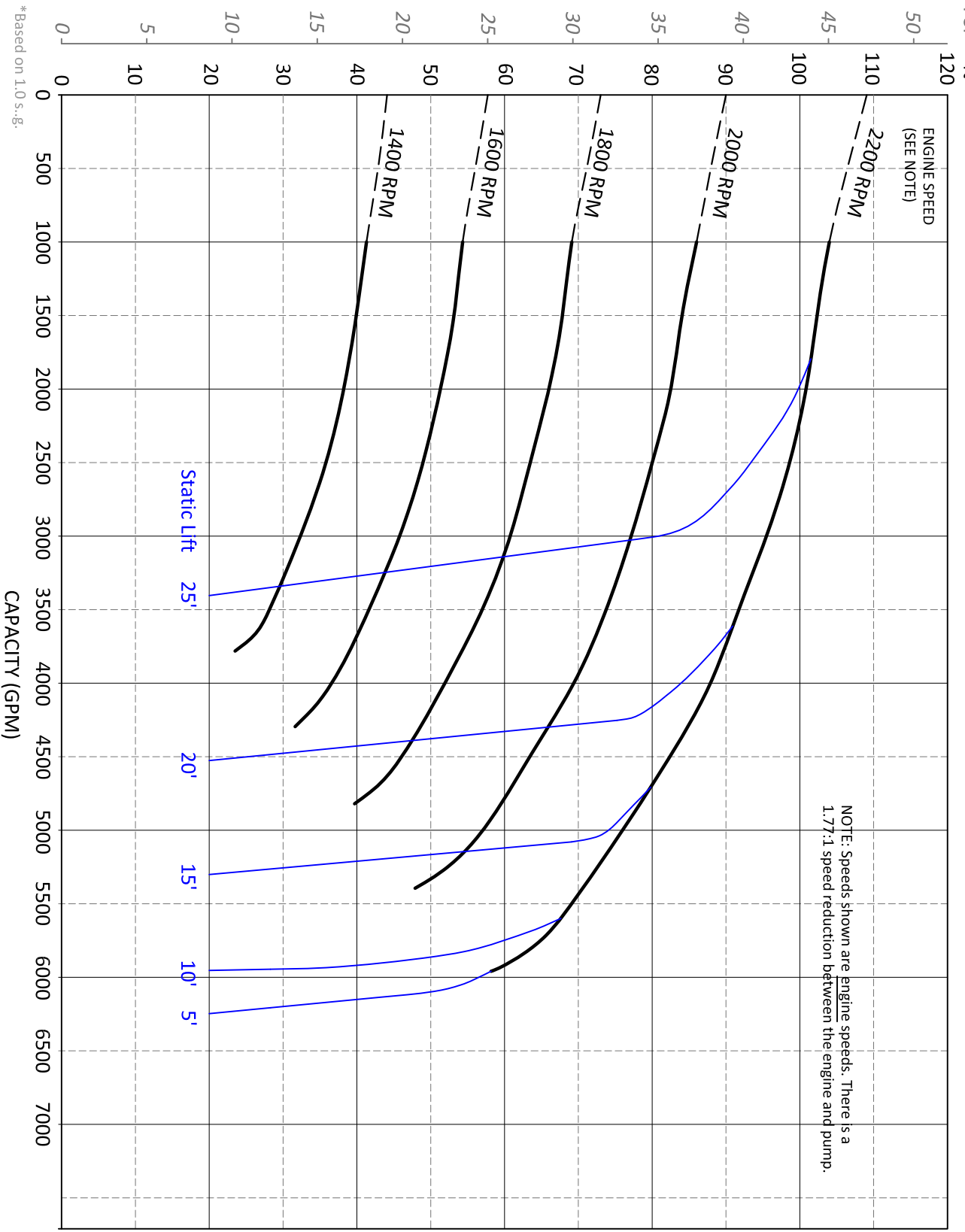
### Notes:

- <sup>(1)</sup> Based on 1.0 specific gravity
- <sup>(2)</sup> Includes weight of skid, pump, enclosure and engine (excludes fuel weight)
- <sup>(3)</sup> Midrange compromise. See John Deere manual.
- <sup>(4)</sup> Run time increases with reduced speed.
- <sup>(5)</sup> **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.
- <sup>(6)</sup> Depends on flowrate and pump speed. See performance curve.

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HEAD  
PSI\*  
ft

**12" PA-SAR SOUND ATTENUATED**



\*Based on 1.0 S.g.

**Pump**

MODEL	PA12A60-4045H
CURVE NO.	SP-2725
SUCTION	12-inch
DISCHARGE	12-inch
MAX SOLID	3-inch
IMP. DIA.	15.5 inches
SPEED	Various
MIN SPEED	1400 RPM

**Engine**

MAKE	John Deere
MODEL	4045H
RATING	153 hp @ 2200

