

## PRODUCT DATA SHEET

November, 2009

## 8" 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 (PA6C60) and engine are totally enclosed by a sound-attenuated enclosure for the quietest running operation in the industry. Fuel tank is UL 142 listed.

### PERFORMANCE DATA

» Flow (min/max):	- 500 gpm / 2600 gpm
» Minimum Shutoff Head:	- 125 feet (54 psi) <sup>(1)</sup> @ 1500 rpm
» Maximum Shutoff Head:	- 195 feet (84 psi) <sup>(1)</sup> @ 2000 rpm
» Speed (min/max):	- 1400 rpm / 2000 rpm
» Maximum Suction Lift:	- 25 feet <sup>(6)</sup>
» Maximum Casing Pressure:	- 127 psi
» Maximum Temperature:	- 160°F
» Maximum Solids Size:	- 3" spherical diameter
» Sound Rating:	- 67 dBA at 23 feet

### PUMP SPECIFICATIONS

» Impeller:	- 11.00"
» Bearing Lubrication:	- SAE No. 30 oil
» Vacuum System:	- Holset 850 compressor, 13 cfm @ 1800 RPM
» Mech. Seal Lubrication:	- SAE No. 30 oil

### FUEL TANK SPECIFICATIONS

» Certification:	- UL 142 listed
» Containment:	- 110%

### PHYSICAL SPECIFICATIONS

» Suction Size:	- 8" flange
» Discharge Size:	- 6" flange
» Total Weight:	- 5,720 lbs. <sup>(2)</sup>
» Height:	- 7'-2" (to top of enclosure) 7'-5" (to top of lifting eye)
» Width:	- 5'-3" (fender to fender)
» Overall Length:	- 11'-10"

### MATERIAL SPECIFICATIONS

» Pump Casing:	- Ductile Iron No. 65-45-12
» Shaft Sleeve:	- 17-4 PH stainless steel
» Wearplate:	- Ductile iron No. 80-60-03
» Mechanical Seal Faces:	- Silicon carbide/ Silicon carbide
» Pump Shaft:	- 17-4 PH stainless steel
» Mech. Seal O-rings:	- Viton
» Impeller:	- Ductile iron No. 65-45-12
» Check Valve Body:	- Gray Iron No. 30
» Check Valve Flapper:	- Buna-N
» Flanges:	- Gray Iron No. 30

### ENGINE SPECIFICATIONS

» Engine Make/Model:	- John Deere 4045T
» Max. Continuous BHP:	- 115 @ 2500 RPM <sup>(5)</sup>
» Crankcase Oil:	- SAE 10W40 <sup>(3)</sup>
» Safety Shutdowns:	- High water temperature & low oil pressure
» Fuel Capacity/Type:	- 90 gallons of No. 2 diesel
» Fuel Consumption:	- 4.8 gal/hr @ 2000 rpm
» Run Time:	- 18+ hours <sup>(4)</sup> @ 2000 rpm
» Coolant:	- 16.5 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 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.

**SOUND ATTENUATED PUMP CURVE**

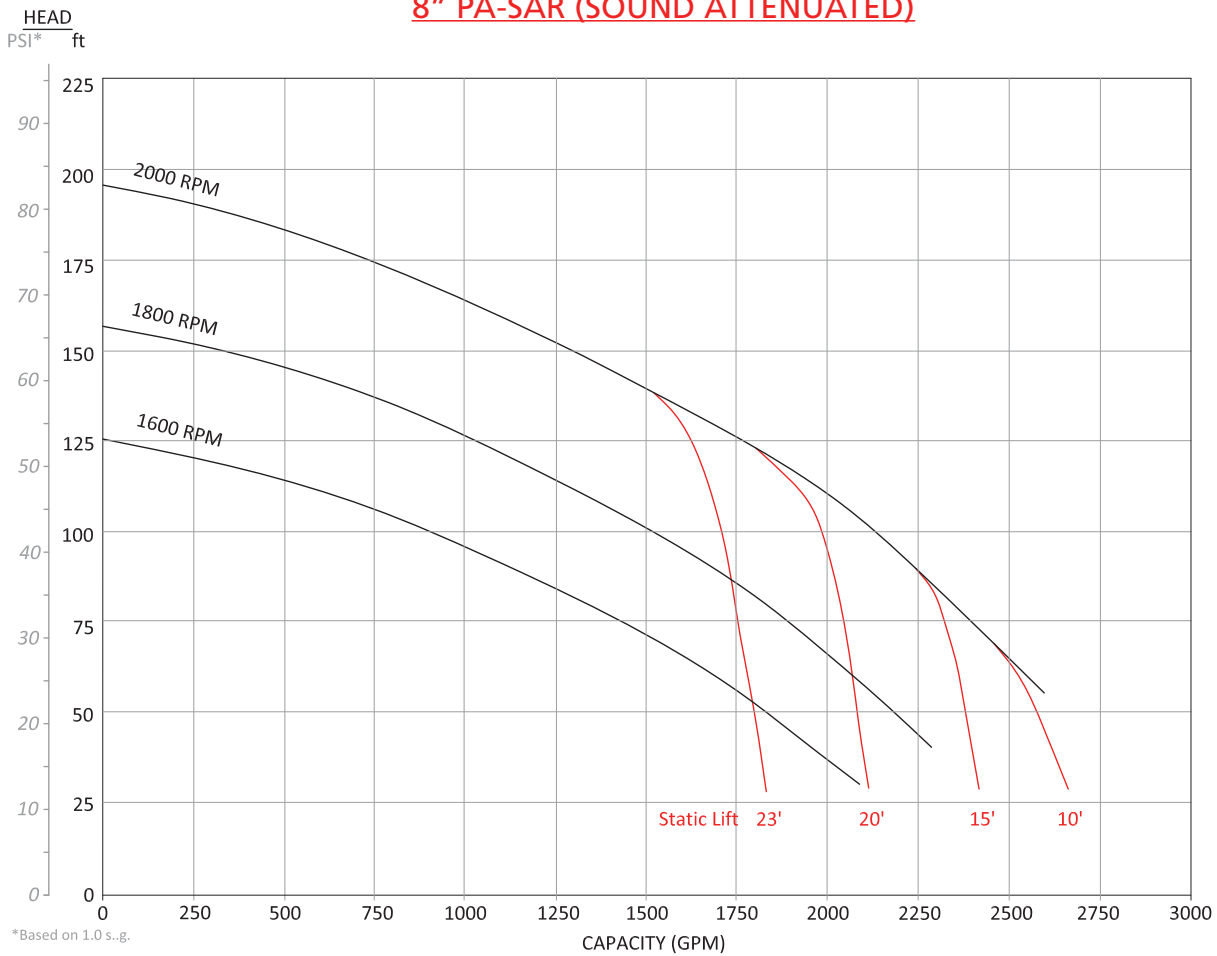
November, 2009

**8" 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 (PA6C60) and engine are totally enclosed by a sound-attenuated enclosure for the quietest running operation in the industry. Fuel tank is UL 142 listed.

**8" PA-SAR (SOUND ATTENUATED)**



PUMP	
MODEL	PA6C60-4045T
CURVE NO.	PA6C-4045T
SUCTION	8-inch
DISCHARGE	6-inch
MAX SOLID	3-inch
IMP. DIA.	11.75 inches
SPEED	Various
MIN SPEED	1400 RPM

ENGINE	
MAKE	John Deere
MODEL	4045T
RATING	115 hp @ 2500

