

PRODUCT DATA SHEET

November, 2009

4" 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 (PA4A60) 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):	- 60 gpm / 925 gpm
» Minimum Shutoff Head:	- 87 feet (38 psi) ⁽¹⁾ @ 1550 rpm
» Maximum Shutoff Head:	- 152 feet (66 psi) ⁽¹⁾ @ 2100 rpm
» Speed (min/max):	- 1550 rpm / 2100 rpm
» Maximum Suction Lift:	- 25 feet ⁽⁶⁾
» Maximum Casing Pressure:	- 99 psi
» Maximum Temperature:	- 160°F
» Maximum Solids Size:	- 3" spherical diameter
» Sound Rating:	- 67 dBA at 23 feet

PUMP SPECIFICATIONS

» Impeller:	- 9.75", two vanes, open
» Bearing Lubrication:	- SAE No. 30 oil
» Vacuum System:	- Piston compressor, 20 cfm w/ venturi eductor
» Mech. Seal Lubrication:	- SAE No. 30 oil

FUEL TANK SPECIFICATIONS

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

PHYSICAL SPECIFICATIONS

» Suction Size:	- 4" ASA flange
» Discharge Size:	- 4" ASA flange
» Total Weight:	- 5,720 lbs. ⁽²⁾
» 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:	- Gray Iron No. 30
» Shaft Sleeve:	- 17-4 PH stainless steel
» Wearplates:	- Carbon steel No. 1018
» Mechanical Seal Faces:	- Silicon carbide/ Silicon carbide
» Pump Shaft:	- Alloy steel No. 4140
» Mech. Seal O-rings:	- Buna N
» Impeller:	- Ductile iron No. 65-45-12
» Check Valve Body:	- Gray Iron No. 30
» Check Valve Flapper:	- Buna-N

ENGINE SPECIFICATIONS

» Engine Make/Model:	- John Deere 4045D
» Max. Continuous BHP:	- 72 @ 2500 RPM ⁽⁵⁾
» Crankcase Oil:	- SAE 10W40 ⁽³⁾
» Safety Shutdowns:	- High water temperature & low oil pressure
» Fuel Capacity/Type:	- 90 gallons of No. 2 diesel
» Fuel Consumption:	- 2.1 gal/hr @ 2100 rpm
» Run Time:	- 40+ hours ⁽⁴⁾
» 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:

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

SOUND ATTENUATED PUMP CURVE

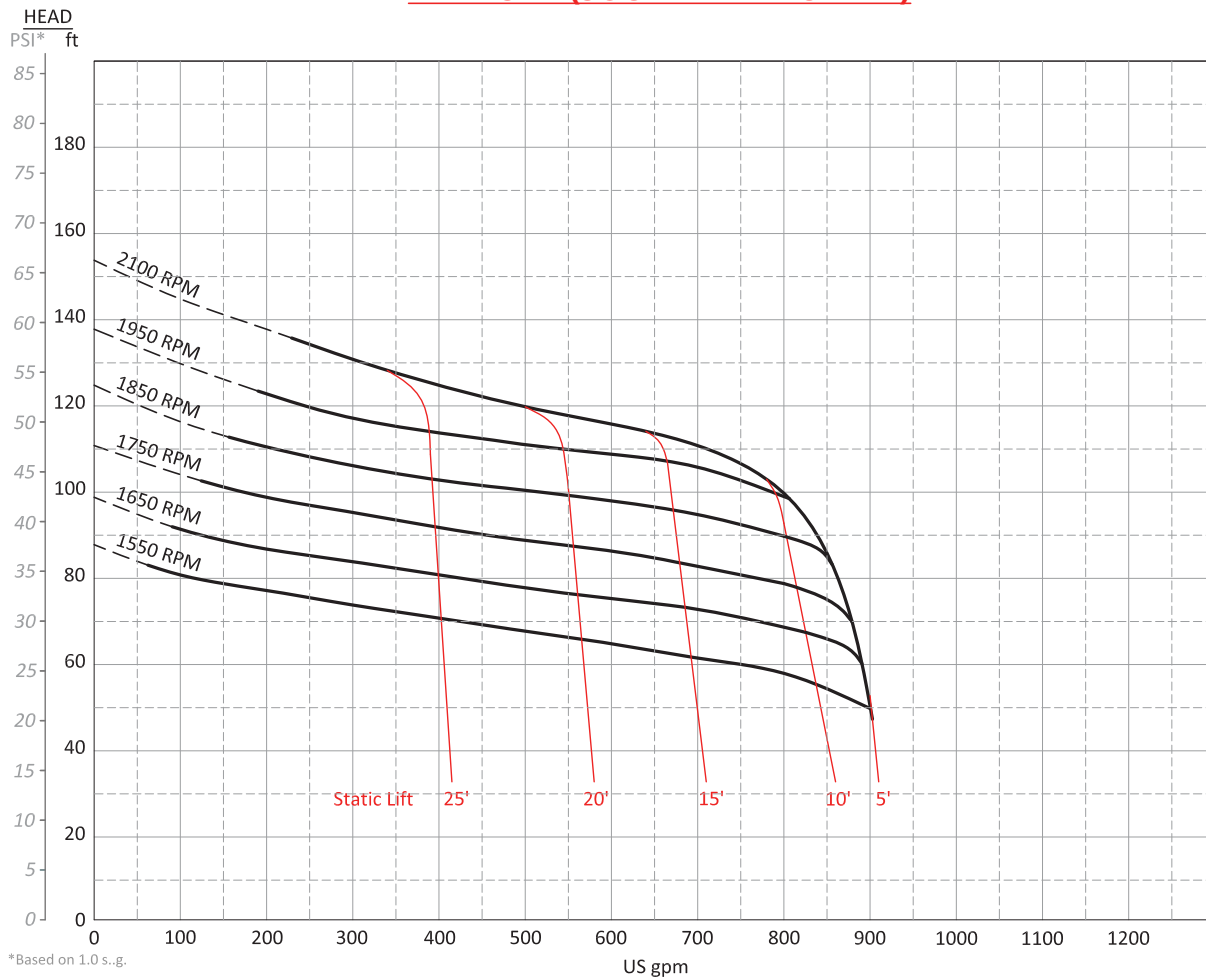
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4" PA-SAR (SOUND ATTENUATED)



PUMP	
MODEL	PA4A60-4045D
CURVE NO.	PA4A-4045D-1
SUCTION	4-inch
DISCHARGE	4-inch
MAX SOLID	3-inch
IMP. DIA.	9.75 inches
SPEED	Various
MIN SPEED	1400 RPM
ENGINE	
MAKE	John Deere
MODEL	4045D
RATING	72 hp @ 2500

