

PRODUCT DATA SHEET

August, 2009

8" PA6C60-4045T PRIME-ASSISTED 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. This pump can take suction from a side-entry flange or a front-entry flange.

PERFORMANCE DATA

» Flow (min/max):	- 500 gpm / 2600 gpm
» Minimum Shutoff Head:	- 125 feet (54 psi) ⁽¹⁾ @ 1500 RPM
» Maximum Shutoff Head:	- 195 feet (84 psi) ⁽¹⁾ @ 2000 RPM
» Speed (min/max):	- 1400 rpm / 2000 rpm
» Maximum Suction Lift:	- 25 feet ⁽⁶⁾
» Maximum Casing Press:	- 127 psi
» Maximum Temperature:	- 160°F
» Maximum Solids Size:	- 3" spherical diameter

PUMP SPECIFICATIONS

» Impeller:	- 11.77"
» Bearing Lubrication:	- SAE No. 30 oil
» Vacuum System:	- Holset 850 compressor, 13 cfm @ 1800 RPM
» Mechanical Seal Lubrication:	- SAE No. 30 oil

PHYSICAL SPECIFICATIONS

» Suction Size:	- 8" flange
» Discharge Size:	- 6" flange
» Total Weight:	- 3800 lbs (without fuel)
» Overall Height:	- 7'-6"
» Overall Width:	- 6'-0"
» Overall Length:	- 11'-6" (trailer length)

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
» Flapper Valve:	- Buna-N Flapper
» 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

ENGINE SPECIFICATIONS

» Engine Make/Model:	- John Deere 4045T
» Max. Continuous BHP:	- 115 @ 2500 RPM ⁽⁵⁾
» Crankcase Oil:	- SAE 10W40 ⁽³⁾
» Safety Shutdowns:	- High water temperature & low oil pressure
» Fuel Capacity/Type:	- 88 gallons of No. 2 diesel
» Fuel Consumption:	- 4.8 gal/hr @ 2000 rpm
» Run Time:	- 18 hours ⁽⁴⁾ @ 2000 rpm
» Coolant:	- 16.5 qts 50/50 water/antifreeze
» Number of Cylinders:	- Four

Notes:

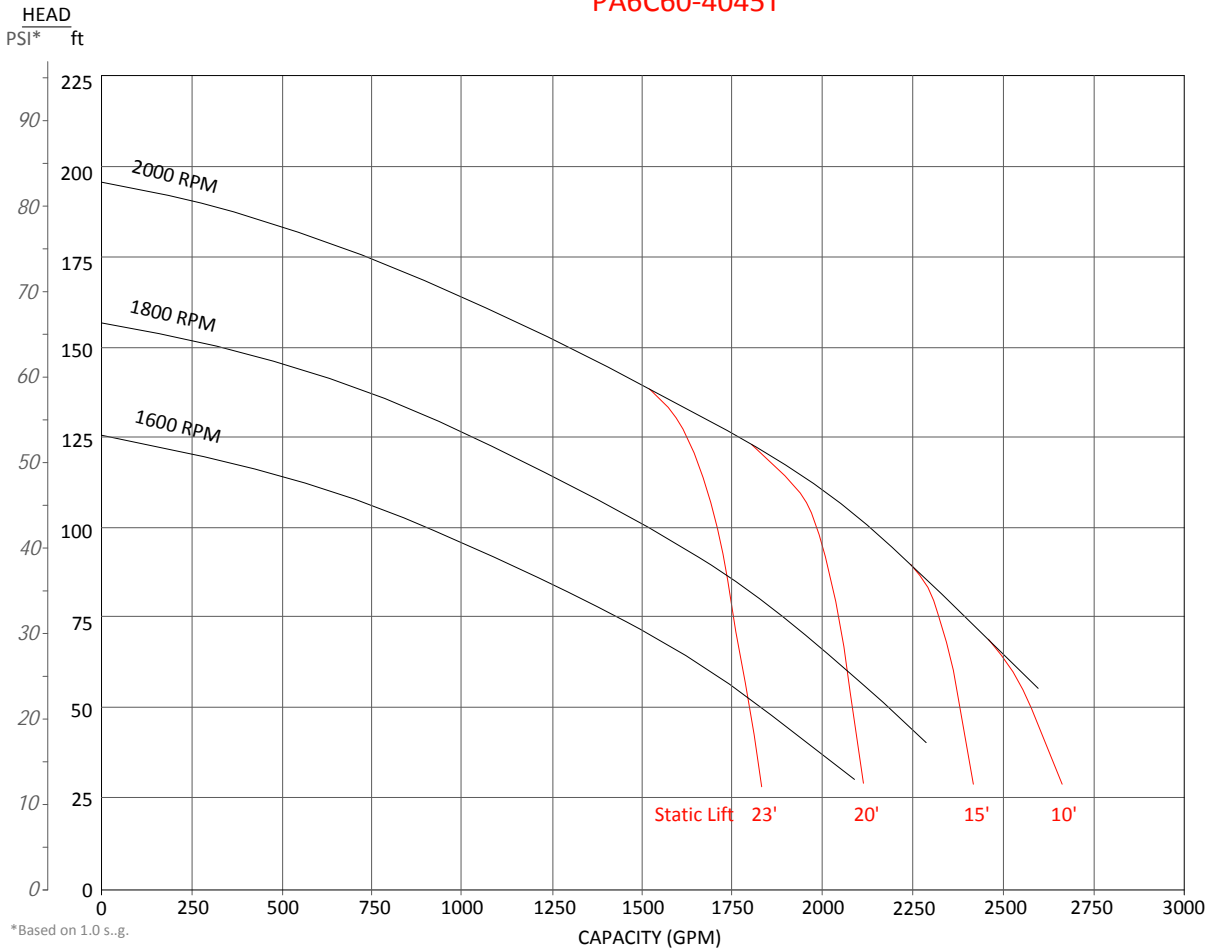
- ⁽¹⁾ Based on 1.0 specific gravity
- ⁽²⁾ Includes weight of trailer, pump and engine
- ⁽³⁾ Midrange compromise. See John Deere manual.
- ⁽⁴⁾ Run time increases with reduced speed.
- ⁽⁵⁾ **WARNING** – this is the rated speed for the ENGINE ONLY. The rated speed of the pump is less. See data sheet for max pump RPM.
- ⁽⁶⁾ Depends on flowrate and pump speed. See performance curve.

PRIME-ASSISTED PUMP CURVE

August, 2009

**8" PA6C60-4045T
PRIME-ASSISTED PUMP**

PA6C60-4045T



*Based on 1.0 s.g.

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

