

PRODUCT DATA SHEET

November, 2008

PA12E60-E300 ELECTRIC PUMP

GENERAL INFORMATION

This pump uses a single diaphragm air pump to create the vacuum and draw air through the air/water separator on the suction to the pump. The diaphragm is driven off the pump shaft via belt. This pump is electric motor driven and operates at 1750 RPM.

PERFORMANCE DATA

» Operating Speed:	-	1750 RPM
» Shutoff Head:	-	350 feet (151 psi) ⁽¹⁾
» Maximum Suction Lift:	-	25 feet ⁽²⁾ (@2500 gpm)
» Flow (min/max):	-	1500 gpm / 5200 gpm
» Maximum Casing Press:	-	230 psi
» Maximum Temperature:	-	160°F
» Maximum Solids Size:	-	3.38" spherical diameter

PUMP SPECIFICATIONS

» Impeller:	-	17-½", six vanes, enclosed
» Bearing Lubrication:	-	No. 2 grease
» Vacuum System:	-	50 cfm diaphragm pump
» Mech. Seal Lubrication:	-	SAE No. 20 oil

PHYSICAL SPECIFICATIONS

» Suction Size:	-	10" 125# FF flange
» Discharge Size:	-	8" 125# FF flange
» Total Weight:	-	3260 lbs. ⁽³⁾
» Overall Height:	-	6'-1" (top of lifting bail)
» Overall Width:	-	4'-10" (skid to skid)
» Overall Length:	-	9'-4" (skid end to skid end)

MATERIAL SPECIFICATIONS

» Pump Casing:	-	Gray Iron
» Shaft Sleeve:	-	Chrome Plated 416 SS
» Wear Rings:	-	Impeller – Gray Iron No. 30 Suction Head – Bronze C83600
» Mechanical Seal Faces:	-	Silicon carbide / Tungsten carbide
» Pump Shaft:	-	Stress-proof stainless steel
» O-rings:	-	Viton & Buna-N
» Impeller:	-	Gray Iron No. 30
» Check Valve Body:	-	Gray Iron No. 30
» Check Valve Flapper:	-	Buna-N

DRIVER SPECIFICATIONS

» Electric Motor:	-	Lincoln Electric or equal
» Type:	-	Open Drip Proof
» HP Rating:	-	300
» Speed:	-	1750 RPM
» Voltage:	-	460 Volts
» Control Panel:	-	Cutler-Hammer S801 Soft Starter: ➤ Thermal overload trip ➤ Jam protection ⁽⁴⁾ ➤ Stall detection ⁽⁴⁾ ➤ Phase loss/current unbalance ⁽⁴⁾ ➤ Phase reversal ⁽⁴⁾
» Mounting:	-	Bracket, motor end, opposite side from pump discharge
» Operating Temperature:	-	-40°F - 122°F

Notes:

- ⁽¹⁾ Based on 1.0 specific gravity
⁽²⁾ Decreases with increasing flow rate.
⁽³⁾ Includes weight of skid, pump and electric motor.
⁽⁴⁾ On/off selectable