### Diesel Engine Driven

**Priming Assisted Centrifugal Pump w/Autostart**

**Model PAH10A60-C18**

**Size 12” x 10”**

#### PUMP SPECIFICATIONS

- **Size:** 12” x 10” (305 mm x 254 mm) Flanged.
- **Casing:** Ductile Iron 65‐45‐12. Maximum Casing Pressure 375 psi (2586 kPa).*
- **Maximum Operating Pressure:** 250 psi (1723 kPa) at Temperatures up to 100°F (37°C) Based on System Component Limitations.*
- **Enclosed Type, Four Vane Impeller:** Ductile Iron 80‐55‐06. Handles 2” (50,8 mm) Diameter Spherical Solids.
- **Impeller Shaft:** Alloy Steel 4150M.
- **Replaceable Wear Ring:** Ductile Iron 65‐45‐12.
- **Bearing Pedestal:** Gray Iron 30.
- **Seal Plate:** Ductile Iron 65‐45‐12.
- **Seal:** Mechanical, SAE 30 Non‐Detergent Oil‐Lubricated. Silicon Carbide Rotating Face and Stationary Seat. Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Stainless Steel 316 Cage and Stainless Steel 18‐8 Spring. Maximum Temperature of Liquid Pumped, 160°F (71°C).*
- **Shaft Sleeve:** Stainless Steel 303/304.
- **Priming Chamber:** Gray Iron 30 Housing w/Stainless Steel Float and Linkage.
- **Discharge Check Valve:** Ductile Iron Housing w/Buna‐N Flapper.
- **Radial Bearing:** Open Single Ball.
- **Thrust Bearing:** Open Double Ball.
- **Bearing Cavity Lubrication:** Lithium EP2 Grease.
- **Suction Spool:** Gray Iron 30.
- **Gaskets:** Resistant Synthetic Rubber, Vegetable Fiber w/Compressed Synthetic Fibers.
- **O‐Rings:** Buna-N.
- **Hardware:** Standard Plated Steel.
- **Seal Cavity Oil Level Sight Gauges.** *Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.
- **Standard Equipment:** Air Compressor. Hoisting Bail. Combination Skid Base w/Fuel Tank. Single Ball Type Float Switch. **
- **Optional Equipment:** Batteries (2 Req’d). Strainer. Heated Priming Chamber Kit. NPT Threaded Flanges. Suction Vacuum and Discharge Pressure Gauge Kit. **50 Ft. (15 m) Standard Length; Dual Switches and Alternate Cable Lengths Available From the Factory.

#### ENGINE SPECIFICATIONS

**Model:** Caterpillar C18 ASCERT ™.

**EPA Tier:** Interim Tier 4.

**Type:** Six Cylinder, Charge‐Air Cooled, Open, Diesel Engine.

**Displacement:** 1105 Cu. In. (18,1 liters).

**Full Load Operating Time:** 6.3 Hrs.

**Starter:** 12V Electric.

**Standard Features:** Muffler w/Weather Cap.

**Engine Control Features:** Padlockable Box with Throttle Control, Tachometer, Coolant Temperature, Oil Pressure, Voltage and Overstart Indicators/Shutdowns. Manual/Stop/Auto Keyswitch. Audible Startup Warning Delay. Fuel Level Display/Alarm/Shutdown.

**CATERPILLAR PUBLISHED PERFORMANCE:**

<table>
<thead>
<tr>
<th>Total Head</th>
<th>Capacity of Pump in U.S. Gallons per Minute (GPM) at Continuous Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>P.S.I.</td>
<td>Feet</td>
</tr>
<tr>
<td>242.8</td>
<td>650</td>
</tr>
<tr>
<td>236.4</td>
<td>550</td>
</tr>
<tr>
<td>219.6</td>
<td>500</td>
</tr>
<tr>
<td>195.1</td>
<td>450</td>
</tr>
</tbody>
</table>
| 173.4      | 400  | 2410| 3390| 4250| 4250|   *
| 151.7      | 350  | 2420| 3400| 4675| 5590|   *
| 130.0      | 300  | 2420| 3400| 4690| 5670| 6100|
| 108.4      | 250  | 2430| 3400| 4700| 5685| 5950|
| 86.7       | 200  | 2450| 3400| 4725| 5700| 6100|
| 65.0       | 150  | 2460| 3400| 4750| 5700| 6200|
| 43.4       | 100  | 2475| 3400| 4780| 5720| 6300|
| 21.7       | 50   | 2495| 3400| 4795| 5740| 6400|

† Suction Lift Based On 1600 RPM Engine Speed.
‡‡ Suction Lift Based On 1400 RPM Engine Speed.
♦ Flow Limitation due to Available Engine Horsepower.

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**WARNING!**

Do not use in explosive atmosphere or for pumping volatile flammable liquids.
**Specification Data**

**APPROXIMATE DIMENSIONS and WEIGHTS**

**NET WEIGHT:**
- 12400 LBS. (5624.5 KG.)

**SHIPPING WEIGHT:**
- 13000 LBS. (5896.7 KG.)

**EXPORT CRATE SIZE:**
- 930 CU. FT. (26.3 CU. M.)

**POWERED BY CATERPILLAR C18 DIESEL ENGINE W/AUX COMPRESSOR**

**Suction:**
- 12.00 NOMINAL WITH 12 HOLES 1.00 in [25.4] DIA EQUALLY SPACED ON A 17.00 in [431.8] DIA BC

**Discharge:**
- 10.00 NOMINAL WITH 12 HOLES 1.00 in [25.4] DIA EQUALLY SPACED ON A 14.25 in [362.0] DIA BC

**Net Weight:**
- 12400 LBS. (5624.5 KG.)

**Shipping Weight:**
- 13000 LBS. (5896.7 KG.)

**Export Crate Size:**
- 930 CU. FT. (26.3 CU. M.)