### Diesel Engine Driven

**Prime Aire Plus**

**Model PAH16A60-B-C18**

**Size 18” x 16”**

### Specification Data

#### Diesel Engine Specifications
- **Model:** Caterpillar C18 ACERT™
- **EPA Tier:** Tier 4 Interim
- **Type:** Six Cylinder, Charge Air Cooled, Open, Diesel Engine
- **Displacement:** 1105 Cu. In. (18,1 liters)
- **Lubrication:** Forced Circulation
- **Air Cleaner:** Dry Type
- **Fuel Tank:** 368 U.S. Gals. (1393 liters)
- **Full Load Operating Time:** 12.1 Hrs.
- **Starter:** 12V Electric
- **Standard Features:** Muffler w/Weather Cap

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

---

#### Pump Specifications

**Size:** 18” x 16” (457 mm x 406 mm) Flanged

**Casing:** Ductile Iron 65-45-12

**Maximum Operating Pressure:** 117 psi (807 kPa) *

**Enclosed Type, Four Vane Impeller:** Ductile Iron 80-55-06

**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 Row Straight Roller.

**Radial/Thrust Bearing:** Open Double Row Tapered Roller.

**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.**

**Standard Equipment:** Air Compressor, 2:1 Gear Reducer, Hoisting Bail, Combination Skid Base w/Fuel Tank, Single Ball Type Float Switch.

**Optional Equipment:** Batteries (2 Req’d), Strainer, Suction Vacuum and Discharge Pressure Gauge Kit.

**50 Ft. (15 m) Standard Length; Dual Switches and Alternate Cable Lengths Available From the Factory.**

---

### Total Head vs Capacity of Pump in U.S. Gallons per Minute (GPM) at Continuous Performance

<table>
<thead>
<tr>
<th>Total Head P.S.I.</th>
<th>Capacity of Pump in GPM at Continuous Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>78.0 180</td>
<td>N/A 5000 5000 5000</td>
</tr>
<tr>
<td>69.4 160</td>
<td>N/A 8300 10400 10400</td>
</tr>
<tr>
<td>60.0 140</td>
<td>N/A 8500 11600 13200</td>
</tr>
<tr>
<td>52.0 120</td>
<td>N/A 8600 12000 13800</td>
</tr>
<tr>
<td>43.4 100</td>
<td>5600 8800 12000 13900</td>
</tr>
<tr>
<td>34.7 80</td>
<td>6000 8900 12100 13900</td>
</tr>
<tr>
<td>26.0 60</td>
<td>6100 9100 12100 13900</td>
</tr>
<tr>
<td>17.3 40</td>
<td>6200 9200 12200 14000</td>
</tr>
<tr>
<td>8.7 20</td>
<td>6500 9400 12300 14000</td>
</tr>
</tbody>
</table>

**Suction Lift:**
- 25’
- 20’
- 15’
- 10’

**PHOTO NOT AVAILABLE AT TIME OF PUBLISHING**
**APPROXIMATE DIMENSIONS and WEIGHTS**

**SECTION, 43 PAGE 805**

- **NET WEIGHT:** 16300 LBS. (7393,6 KG.)
- **SHIPPING WEIGHT:** 17000 LBS. (7711,1 KG.)
- **EXPORT CRATE SIZE:** 1276 CU. FT. (36,1 CU. M.)

**Suction:**
18.00 NOMINAL with 16 HOLES
1.25 [31,8] DIA, EQUALLY SPACED
ON A 22.75 [577,8] DIA B.C.

**Discharge:**
16.00 NOMINAL with 16 HOLES
1.12 [28,6] DIA, EQUALLY SPACED
ON A 21.25 [539,8] DIA B.C.

**Dimensions, INCHES [MILLIMETERS]:**

<table>
<thead>
<tr>
<th>INCHES</th>
<th>MILLIMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.41</td>
<td>594.6</td>
</tr>
<tr>
<td>49/ [17.5] X 2.50/62.5</td>
<td></td>
</tr>
<tr>
<td>SLOT</td>
<td>12 PLACES</td>
</tr>
<tr>
<td>146.50</td>
<td>3721.1</td>
</tr>
<tr>
<td>193.28</td>
<td>4909.2</td>
</tr>
</tbody>
</table>

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

**Performance Curve**

- **Volute:** 38219-502
- **Impeller:** 38614-802

**Specifications Subject to Change Without Notice**

Printed in U.S.A.