Spec. 41 JULY 2019

Diesel Engine Driven

Primed Assisted Centrifugal Pump w/Autostart

Model VPA4A60C-3CH1 FT4

Size 4” x 4”

<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></td>
<td>P.S.I.</td>
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<tr>
<td>49.0</td>
<td>113</td>
</tr>
<tr>
<td>43.4</td>
<td>100</td>
</tr>
<tr>
<td>34.7</td>
<td>80</td>
</tr>
<tr>
<td>26.0</td>
<td>60</td>
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<tr>
<td>17.3</td>
<td>40</td>
</tr>
<tr>
<td>8.7</td>
<td>20</td>
</tr>
</tbody>
</table>

**Suction Lift**: 25’, 20’, 15’, 10’, 5’

**PUMP SPECIFICATIONS**

**Size**: 4” x 4” (102 mm x 102 mm) Flanged.

**Casing**: Gray Iron 30.

Maximum Operating Pressure 74 psi (510 kPa).

Maximum Temperature of Liquid Pumped 160° F (71°C).

**Semi-Open Type, Single Vane Impeller**: Ductile Iron 65-45-12.

Handles 3” (76.2 mm) Diameter Spherical Solids.

**Impeller Shaft**: Alloy Steel 4150.

**Replaceable Wear Plate**: Carbon Steel ASTM A36.

**Bearing Housing**: Gray Iron 30.

**Seal Plate**: Gray Iron 30.


**Shaft Sleeve**: Alloy Steel 4130.

**Priming Chamber**: Gray Iron 30 Housing w/Stainless Steel Float and Linkage.

**Discharge Check Valve**: Ductile Iron Housing w/Buna-N Flapper.

**Bearings**: Permanently Lubricated Single Row Ball.

**Seal Cavity Lubrication**: SAE 30 Non-Detergent Oil.

**Gaskets**: Red Rubber.

**O-Rings**: Buna-N.

**Hardware**: Standard Plated Steel.

*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.*

**Standard Equipment**: Belt-Driven Air Compressor. Hoisting Bail. Combination Skid Base w/Fuel Tank. Strainer. Standard Auto-start Control Panel. Single Ball Type Float Switch.**


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

**ENGINE SPECIFICATIONS**

**Model**: Isuzu 3CH1.

**EPA Tier**: Final Tier 4.

**Type**: Three Cylinder, Diesel Engine.

**Displacement**: 97.6 Cu. In. (1.6 Liters).

**Lubrication**: Forced Circulation.

**Governor**: Mechanical.

**Air Cleaner**: Dry Type.

**Fuel Tank**: 34 U.S. Gals. (128.7 Liters).

**Full Load Operating Time**: 21.9 Hrs.

**Starter**: 12V Electric.


**ISUZU PUBLISHED PERFORMANCE**: Maximum Gross Continuous BHP 23.9 (17.8 kW) @ 3000 RPM

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**Specification Data**

**SKID BASE**

**NET WEIGHT:** 1335 LBS. (605.5 KG.)

**SHIPPING WEIGHT:** 1335 LBS. (605.5 KG.)

**EXPORT CRATE SIZE:** 133.6 CU. FT. (3.8 CU. M.)

**APPROXIMATE DIMENSIONS and WEIGHTS**

**SKID BASE**

**NET WEIGHT:** 1335 LBS. (605.5 KG.)

**SHIPPING WEIGHT:** 1335 LBS. (605.5 KG.)

**EXPORT CRATE SIZE:** 133.6 CU. FT. (3.8 CU. M.)

**DIMENSIONS and WEIGHTS**

**DISCHARGE:**
- 4.00 Nominal with 8 holes .75/ [19.0] Dia equally spaced on a 7.50/ [190.5] Dia B C

**SUCTION:**
- 4.00 Nominal with 6 holes .75/ [19.0] Dia

**POWERED BY:** ISUZU 3CH1 Diesel Engine

**DIESEL ENGINE SPECIFICATIONS**

- **DIMENSIONS:**
  - INCHES
  - MILLIMETERS

**PERFORMANCE CURVE**

- **TOTAL HEAD:**
  - M
  - PSI
  - FT

- **VOLUME:**
- **VACUUM:**
- **SPEED:** 1800 RPM

**PERFORMANCE SHOWN DOES NOT INCLUDE DISCHARGE CHECK VALVE LOSSES**

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