Diesel Powered Dewatering Pump Sets
Auto Prime Vac Assist

..Setting the standard in performance and reliability

pioneerpump.com.au

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Sizes: 3” (80mm) to 18” (450mm) port diameters. 30” (760mm) currently being designed.

Heavy duty construction for Australian Conditions: Ductile Iron Casing / CA6NM Hard Stainless Steel Impeller / 17-4 Stainless Steel Shaft / Silicon Carbide Vs Tungsten Carbide hard faced Mechanical Seal with Stainless Steel hard ware and Viton Elastomers Run Dry type.

Optional Materials: Pumps available in 316 SS & CD4MCU (DUPLEX) SS Construction.

Heads: to 220m

Volumes: to 2500 LPS.

Air Evacuation for Auto priming: 50 SCFM Mechanical air diaphragm Pump.

Heavy Duty Check Valve: Valmatic flap type.

SAE Housing & fly wheel coupling: SAE 5 to SAE 0 fitted with REICH Heavy duty couplings.

**Patented Priming System:** Pioneer Pump has designed and developed the most reliable priming equipment available today. By using innovative designs and modern materials, Pioneer has all but eliminated the problems associated with other manufacturer’s pumps. All key priming equipment such as the valve and float ball are manufactured in 316 Stainless Steel offering superior resistance to corrosion. Fitted with PosiValve stainless steel positive sealing priming valve.

**Advanced Impeller Designs:** By studying other industries we have combined aerodynamics and hydrodynamics to develop the most advanced impeller designs capable of large flows or high heads and efficiencies of close to 90%. The Pioneer Prime non-clog impellers can pass solids up to 100mm and have very high resistance to wear and shock loads. Materials of construction include 316 and CD4MCu Stainless Steels, CA6NM and Ductile Iron. Low NPSHr impeller designs for exceptional suction lifts.

**Designed to last:** All Pioneer Prime pumps come with a 2 year warranty meaning peace of mind is delivered hand in hand with your pump. The heavy duty design combined with quality materials of construction provides excellent performance on the toughest of applications.

**Bearings:** Oversized shafts and bearings for exceptional reliability in demanding conditions.

**How does a Pioneer Prime work?**

The Pioneer Prime pump is in fact two pumps. The primary pump is the high efficiency end suction standard centrifugal pump, which like any centrifugal pump is not capable of priming on its own. Therefore the pump needs to be primed using some form of assistance.

Pioneer designed and built its own diaphragm pump for the job of priming the centrifugal pump. This liquid tolerant diaphragm pump is directly driven via a toothed belt from the main shaft of the centrifugal pump. As such the diaphragm pump is always operating when the engine or motor is turned on. This secondary pump is connected via a hose to the Pioneer designed air/liquid separation chamber. This chamber is mounted on an extended suction spool that is bolted to the front of the centrifugal pump. It is specifically designed to allow the diaphragm pump to suck the air out of the suction line causing the fluid to rise up the suction line until it reaches the centrifugal pump. Inside the air/liquid separation chamber is a Pioneer designed air valve that sits in the head of the chamber. This air valve is connected to a float ball that hangs down into the chamber through a series of cantilevered arms.

All parts of the mechanism are made in stainless steel to ensure continued high performance. During priming, there is no liquid in the suction hose or the separation chamber which causes the float ball to drop down. As the ball lowers, it opens the small air valve allowing the diaphragm pump to suck the air from the air/liquid separation chamber and the suction line. This is done at a flow rate of approx 1.4 m³/minute (85m³/hr). During priming all the air is sucked out of the air/liquid separation chamber and suction line. This causes a lower pressure zone inside the suction line which allows atmospheric pressure (1 bar) to push the pumpage up the suction line until it reaches the suction entrance of the centrifugal pump.

When there is sufficient fluid in the suction line and in the centrifugal pump for the pump to become dynamic or stable, the pump can start to carry out its pumping duty. At the same time, there is sufficient fluid in the air/liquid separation chamber to float the ball upwards closing the air valve and stopping any air or fluid to pass through the air hose and into the diaphragm pump. Whilst the valve is closed, the diaphragm pump continues to operate, although no actual air is being pumped and as such the vacuum pump is consuming very little power.

Should the centrifugal pump ever lose its prime and liquid fails to flow up the suction pipe, the float ball in the air/liquid separation tank drops opening the valve at the top of the chamber automatically. This allows air once again to be sucked to the diaphragm pump and discharged, thus re-priming the centrifugal pump completely automatically. This process is fully automatic and can happen at any time as long as the pump is operating.

In order for no seal damage to occur during the priming stage or dry running period, Pioneer has incorporated an integrated seal chamber which houses 2-3 litres of oil which automatically lubricates the seal. This allows for indefinite running without seal damage even when no fluid enters the centrifugal pump.
BUILD OPTIONS  CUSTOM BUILDS
TO SITE & CUSTOMER REQUIREMENTS

PIONEER // MINE SPEC SKIDS

PIioneer // STANDARD SKIDS

PIioneer // MINE SPEC TRAILERS

PIioneer // ROAD REGISTERED TRAILERS

PIioneer // ACOUSTIC CANOPY SILENT PACKAGES
SKID & BOLT ON TRAILER.

PIioneer // PONTOONS
**BUILD OPTIONS - ACCESSORIES.**

- Arcoplate hardened Wear Strip welded only.
- 48 Hour Fuel Tank
- Single Point Lift
- Bull Bar LWV
- Bull Bar HY
- Engine Canopy (roof)
- Full Canopy (roof) Drop Discharge
- Dual Drop Discharge C/W Valves
- Rear Discharge
- Dual Rear Discharge C/W Valves
- Bauer Couplings
- Boom & Winch 3m
- Boom & Winch 4.5m
- Boom & Winch 6m
- Electric Winch
- TOW CHAINS - costing for 1 set of tow chains to 1 end of the skid only.
- Web Forge Decking
- Night Work Lights
- Yellow operational beacon
- Geared Butterfly Valve
- Fire Extinguisher
- Vacuum Gauge
- Wiggins Fuel quick fill system
- Bunding to 110% retention of engine operational liquids
- Exhaust Lagging
- Turbo Heat Shield
- Battery Isolation Switch
- Dual Battery Isolation
- Built to MDG 15 Spec to the guide lines.
- Quantity of 3 complete ring folder manuals indexed, with Engine, pump & panel manual
- Automatically adjustable stationary stabiliser, quantity
- Simple 4 wheel trolley with handle
- Heavy duty adjustable stationary stabilizer, quantity

**FLOW CAPTOR AND 5m LEAD LOW FLOW SHUTDOWN**

- Murphy low coolant level switch gauge
- Fuel Sender with low level shutdown
- Mechanical fuel gauge
- Local Stop/Start buttons for auto mode
- Linear actuator (auto throttle control)
- Remote Start 433MHz 2 Channel (300mtrs) incl 2 remotes
- Extra Hand held Clicker Remotes
- Remote Start 434MHz 2 Channel (1-2Klms) bi-directional requires 12V supply inc 2 remotes transceivers
- Extra Hand held Transceiver
- Remote start Next G modem (Text Message)
- Radio Telemetry System, able to monitor all information displayed by K45 control panel 2km line of site
- Web site Monitoring (does not include sim or monthly fee)
- Jump Start Recepticle
- Modbus Plug
- Solar trickle feed battery system
- Engine Temperature Sender

**TRAILERS**

- Integral Single Axle Site Trailer - 2000kg
- Integral Dual Axle Site Trailer - 2000kg
- Single Axle Bolt On Site Trailer - 2000kg
- Dual Axle Bolt On Site Trailer - 2000kg
- Integral Single Axle - 4000kg
- Bolt on Site Trailer 4000kg
- Folding Draw Bar – Site units only.
- Integral Single Axle Trailer - 6000kg
- Dual Axle Galv Road Reg w Racks and L/Light Storage and Electric Brakes - 4000kg capacity
- Single/Dual Axle Bolt on Road Registerable Trailer up to 2000kg
- Single/Dual Axle Bolt on Galv Reg Trailer w Electric Brakes 2000kg to 4000kg NA
- Hose Racks for trailers up to 4000kg 1 side only 4 x 3.5m max length suction hose storage.
- Simple 4 wheel trolley with handle
- Heavy duty adjustable stationary stabilizer, quantity

**PAINTING**

- All pump ends and builds can be painted to the paint specification as required by customers. Paint specifications need to be given at the time of enquiry and will need to be offered as a part of the quotation. Note: special paint requirements incur extra costs will be and delivery periods for supply will be extended.

**ACOUSTIC CANOPIES**

- Special purpose built steel canopies to customers and noise level requirements.
**CONSTRUCTION & OPTIONS**

- **Builds**: Skid / Trailer / Silent / Pontoon
- **Pump Product Number**: PP44S8L71-E475
- **Fuel Capacity**: 180L / 24hour / 36 hour run
- **Impeller**: Shrouded, CA6NM - S.S.
- **Fuel Tank**: Single skin / Bunded - 5mm plate used for both
- **Anti Vibration**: Isolation mounts fitted - sub to main frames
- **Impeller diameter**: 210mm
- **Skid types**: Contractor or Mining
- **Pump Shaft**: 17 - 4 PH S.S.
- **Trailer types**: Single & dual axle – on & off road
- **Mechanical Seal**: Run Dry – Sic Vs Tung Faced
- **Suction booms**: Available on all open air units.
- **Operating speed range**: 900 – 2200 rpm
- **Nudge Bar**: Available on all open air skid units.
- **Priming System**: 50SCFM Diaphragm Vac Pump
- **Flanges**: To customers requirements for size & type.
- **Coupling**: SAE Mount Direct.
- **Control Panel**: On a fabricated panel stand located centrally
- **Bearings & lubrication**: Ball, Grease & Oil options
- **Emergency Stop**: Fitted both sides of units – large mushroom
- **Casing Material**: Ductile Iron
- **Optional Extras**: Literally 100’s of accessories available.
- **Recommended Engine**: CAT C2.2/ Kubota V3300 SAE

**PUMP DETAILS**

- **Build**: Skid / Trailer / Silent / Pontoon
- **Pump Product Number**: PP44S8L71-E475
- **Fuel Capacity**: 180L / 24hour / 36 hour run
- **Impeller**: Shrouded, CA6NM - S.S.
- **Fuel Tank**: Single skin / Bunded - 5mm plate used for both
- **Anti Vibration**: Isolation mounts fitted - sub to main frames
- **Impeller diameter**: 254 mm
- **Skid types**: Contractor or Mining
- **Pump Shaft**: 17 - 4 PH S.S.
- **Trailer types**: Single & dual axle – on & off road
- **Mechanical Seal**: Run Dry – Sic Vs Tung Faced
- **Suction booms**: Available on all open air units.
- **Operating speed range**: 1200 – 2000 rpm
- **Nudge Bar**: Available on all open air skid units.
- **Priming System**: 50SCFM Diaphragm Vac Pump
- **Flanges**: To customers requirements for size & type.
- **Coupling**: SAE Mount Direct.
- **Control Panel**: On a fabricated panel stand located centrally
- **Bearings & lubrication**: Ball, Grease & Oil options
- **Emergency Stop**: Fitted both sides of units – large mushroom
- **Casing Material**: Ductile Iron
- **Optional Extras**: Literally 100’s of accessories available.
- **Recommended Engine**: CAT C2.2/ Kubota V3300 SAE
**CONSTRUCTION & OPTIONS**

- **Builds**
  - Skid / Trailer / Silent / Pontoon

- **Fuel Capacity**
  - 180L / 24hr / 36 hour run

- **Fuel Tank**
  - Single skin / Bunded - 5mm plate used for both

- **Anti Vibration**
  - Isolation mounts fitted - sub to main frames

- **Impeller diameter**
  - 355 mm

- **Skid types**
  - Contractor or Mining

- **Trailer types**
  - Single & dual axle – on & off road

- **Suction booms**
  - Available on all open air units.

- **Operating speed range**
  - 1400 – 2000 rpm

- **Nudge Bar**
  - Available on all open air skid units.

- **Priming System**
  - 50SCFM Diaphragm Vac Pump

- **Flanges**
  - To customers requirements for size & type.

- **Casing Material**
  - Ductile Iron

- **Optional Extras**
  - Literally 100’s of accessories available.

**Recommended Engine**
- CAT 3056NA/ Cummins QSB 4.5

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**PP53C14 5” X 3” PUMP**

**Pump Product Number**
- PP53C14L71-E310

**Performance Guide**
- 30 LPS / 90 M

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**PP64S12 6” X 4” PUMP**

**Pump Product Number**
- PP64512L71-E310

**Performance Guide**
- 90 LPS / 60 M
### Builds
- Skid / Trailer / Silent / Pontoon

### Fuel Capacity
- 180L / 24 hour / 36 hour run

### Impeller
- Shrouded, CA6NM - S.S.

### Fuel Tank
- Single skin / Bunded - 5mm plate used for both

### Solids Handling
- 76 mm

### Anti Vibration
- Isolation mounts fitted - sub to main frames

### Impeller diameter
- 254 mm

### Skid types
- Contractor or Mining

### Pump Shaft
- 17 - 4 PH S.S.

### Trailer types
- Single & dual axle – on & off road

### Mechanical Seal
- Run Dry – Sic Vs Tung Faced

### Suction booms
- Available on all open air units.

### Operating speed range
- 1400 – 2000 rpm

### Nudge Bar
- Available on all open air skid units.

### Priming System
- 50SCFM Diaphragm Vac Pump

### Flanges
- To customers requirements for size & type.

### Coupling
- SAE Mount Direct.

### Control Panel
- On a fabricated panel stand located centrally

### Bearings & lubrication
- Ball, Grease & Oil options

### Emergency Stop
- Fitted both sides of units – large mushroom

### Casing Material
- Ductile Iron

### Optional Extras
- Literally 100’s of accessories available.

### Recommended Engine
- CAT 3056T/Cummins QSB 4.5
**CONSTRUCTION & OPTIONS**

**Builds**
- Skid / Trailer / Silent / Pontoon

**Fuel Capacity**
- 180L / 24 hour / 36 hour run

**Fuel Tank**
- Single skin / Bunded - 5mm plate used for both

**Solids Handling**
- 76 mm

**Anti Vibration**
- Isolation mounts fitted - sub to main frames

**Skid types**
- Contractor or Mining

**Trailer types**
- Single & dual axle - on & off road

**Suction booms**
- Available on all open air units.

**Nudge Bar**
- Available on all open air skid units.

**Flanges**
- To customers requirements for size & type.

**Control Panel**
- On a fabricated panel stand located centrally

**Emergency Stop**
- Fitted both sides of units – large mushroom

**Optional Extras**
- Literally 100’s of accessories available.

**Recommended Engine**
- CAT 3056 TA / Cummins QSB 4.5

**PUMP DETAILS**

**Pump Product Number**
- PP66S14L71-E311

**Impeller**
- Shrouded, CA6NM - S.S.

**Solids Handling**
- 76 mm

**Impeller diameter**
- 355 mm

**Skid types**
- Contractor or Mining

**Pump Shaft**
- 17 - 4 PH S.S.

**Trailer types**
- Single & dual axle - on & off road

**Mechanical Seal**
- Run Dry – Sic Vs Tung Faced

**Suction booms**
- Available on all open air units.

**Nudge Bar**
- Available on all open air skid units.

**Flanges**
- To customers requirements for size & type.

**Control Panel**
- On a fabricated panel stand located centrally

**Bearings & lubrication**
- Ball, Grease & Oil options

**Casing Material**
- Ductile Iron

**Recommended Engine**
- CAT C6.6 151/ Cummins QSB 6.7
### MODEL PP1010C14 10” X 10” PUMP

**PERFORMANCE GUIDE**

- **Pump Product Number**: PP1010C14L71-HG
- **Fuel Capacity**: 24 hour / 36 hour run
- **Impeller**: Shrouded, CA6NM - S.S.
- **Fuel Tank**: Single skin / Bunded - 5mm plate used for both
- **Impeller Diameter**: 355 mm
- **Anti Vibration**: Isolation mounts fitted - sub to main frames
- **Skid Types**: Contractor or Mining
- **Pump Shaft**: 17 - 4 PH S.S.
- **Trailer Types**: N/A
- **Suction Booms**: Available on all open air units.
- **Nudge Bar**: Available on all open air skid units.
- **Flanges**: To customers requirements for size & type.
- **Control Panel**: On a fabricated panel stand located centrally
- **Emergency Stop**: Fitted both sides of units – large mushroom
- **Optional Extras**: Literally 100’s of accessories available.
- **Recommended Engine**: CAT C11/ Cummins QSM11

### MODEL PP1212S17 12” X 12” PUMP

**PERFORMANCE GUIDE**

- **Pump Product Number**: PP1212S17L71-E114
- **Fuel Capacity**: 24 hour / 36 hour run
- **Impeller**: Shrouded, CA6NM - S.S.
- **Fuel Tank**: Single skin / Bunded - 5mm plate used for both
- **Impeller Diameter**: 355mm
- **Anti Vibration**: Isolation mounts fitted - sub to main frames
- **Skid Types**: Contractor or Mining
- **Pump Shaft**: 17 - 4 PH S.S.
- **Trailer Types**: N/A
- **Suction Booms**: Available on all open air units.
- **Nudge Bar**: Available on all open air skid units.
- **Flanges**: To customers requirements for size & type.
- **Control Panel**: On a fabricated panel stand located centrally
- **Emergency Stop**: Fitted both sides of units – large mushroom
- **Optional Extras**: Literally 100’s of accessories available.
- **Recommended Engine**: Engine CAT C13/ Cummins QSM11

### PERFORMANCE DATA

**Flow Rate vs Head**

- Graph showing Flow Rate vs Head for both models.

**Flow Rate vs Efficiency**

- Graph showing Flow Rate vs Efficiency for both models.

**Flow Rate vs Total Power**

- Graph showing Flow Rate vs Total Power for both models.
## CONSTRUCTION & OPTIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>18&quot; X 18&quot; Pump</th>
<th>30&quot; X 30&quot; Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Builds</strong></td>
<td>Skid / Pontoon Pump</td>
<td>Skid / Pontoon Pump</td>
</tr>
<tr>
<td><strong>Fuel Capacity</strong></td>
<td>24hour / 36 hour run</td>
<td>24hour / 36 hour run</td>
</tr>
<tr>
<td><strong>Fuel Tank</strong></td>
<td>Single skin / Bunded - 5mm plate used for both</td>
<td>Single skin / Bunded - 5mm plate used for both</td>
</tr>
<tr>
<td><strong>Anti Vibration</strong></td>
<td>Isolation mounts fitted - sub to main frames</td>
<td>Isolation mounts fitted - sub to main frames</td>
</tr>
<tr>
<td><strong>Skid types</strong></td>
<td>Contractor or Mining</td>
<td>Contractor or Mining</td>
</tr>
<tr>
<td><strong>Trailer types</strong></td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Suction booms</strong></td>
<td>Available on all open air units.</td>
<td>Available on all open air units.</td>
</tr>
<tr>
<td><strong>Nudge Bar</strong></td>
<td>Available on all open air skid units.</td>
<td>Available on all open air skid units.</td>
</tr>
<tr>
<td><strong>Flanges</strong></td>
<td>To customers requirements for size &amp; type.</td>
<td>To customers requirements for size &amp; type.</td>
</tr>
<tr>
<td><strong>Control Panel</strong></td>
<td>On a fabricated panel stand located centrally</td>
<td>On a fabricated panel stand located centrally</td>
</tr>
<tr>
<td><strong>Emergency Stop</strong></td>
<td>Fitted both sides of units - large mushroom</td>
<td>Fitted both sides of units - large mushroom</td>
</tr>
<tr>
<td><strong>Optional Extras</strong></td>
<td>Literally 100’s of accessories available.</td>
<td>Literally 100’s of accessories available.</td>
</tr>
</tbody>
</table>

## PERFORMANCE GUIDE

<table>
<thead>
<tr>
<th>Model</th>
<th>Flowrate U.S. Gallons per minute</th>
<th>Flowrate Cubic Meters per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PP1818S22</strong></td>
<td>940 LPS / 30 M</td>
<td></td>
</tr>
<tr>
<td><strong>PP3030S34</strong></td>
<td>1800 LPS / 20 M</td>
<td></td>
</tr>
</tbody>
</table>
**Pump Product Number**: PP64C17L71-E311

**Pump Capacity**: 80 LPS / 130 M

**Fuel Capacity**: 180L / 24 hour / 36 hour run

**Impeller**: Shrouded, CA6NM - S.S.

**Fuel Tank**: Single skin / Bunded - 5mm plate used for both

**Impeller Diameter**: 430 mm

**Skid Types**: Contractor or Mining

**Pump Shaft**: 17 - 4 PH S.S.

**Trailer Types**: Single & dual axle – on & off road

**Mechanical Seal**: Run Dry – Sic Vs Tung Faced

**Suction Booms**: Available on all open air units.

**Operating Speed Range**: 1400 – 2000 rpm

**Nudge Bar**: Available on all open air skid units.

**Priming System**: 50SCFM Diaphragm Vac Pump

**Flanges**: To customers requirements for size & type.

**Coupling**: SAE Mount Direct.

**Control Panel**: On a fabricated panel stand located centrally

**Bearings & Lubrication**: Ball, Grease & Oil options

**Casing Material**: Ductile Iron

**Recommended Engine**: CAT C6.6 168/ Cummins QSB6.7

**Optional Extras**: Literally 100’s of accessories available.
### CONSTRUCTION & OPTIONS

<table>
<thead>
<tr>
<th>Builds</th>
<th>Skid / Trailer / Silent / Pontoon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Capacity</td>
<td>180L (24 hour / 36 hour run)</td>
</tr>
<tr>
<td>Fuel Tank</td>
<td>Single skin / Bunded - 6mm plate used for both</td>
</tr>
<tr>
<td>Anti Vibration</td>
<td>Isolation mounts fitted - sub to main frames</td>
</tr>
<tr>
<td>Impeller diameter</td>
<td>430 mm</td>
</tr>
<tr>
<td>Skid types</td>
<td>Contractor or Mining</td>
</tr>
<tr>
<td>Pump Shaft</td>
<td>17 - 4 PH S.S.</td>
</tr>
<tr>
<td>Suction booms</td>
<td>Available on all open air units.</td>
</tr>
<tr>
<td>Nudge Bar</td>
<td>Available on all open air skid units.</td>
</tr>
<tr>
<td>Flanges</td>
<td>To customers requirements for size &amp; type.</td>
</tr>
<tr>
<td>Control Panel</td>
<td>On a fabricated panel stand located centrally</td>
</tr>
<tr>
<td>Emergency Stop</td>
<td>Fitted both sides of units – large mushroom</td>
</tr>
<tr>
<td>Optional Extras</td>
<td>Literally 100's of accessories available.</td>
</tr>
</tbody>
</table>

### PUMP DETAILS

<table>
<thead>
<tr>
<th>Pump Product Number</th>
<th>PP86C17B-L71-E311</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Capacity</td>
<td>180L / 24 hour / 36 hour run</td>
</tr>
<tr>
<td>Impeller</td>
<td>Shrouded - S.S.</td>
</tr>
<tr>
<td>Solids Handling</td>
<td>25mm</td>
</tr>
<tr>
<td>Anti Vibration</td>
<td>Isolation mounts fitted - sub to main frames</td>
</tr>
<tr>
<td>Impeller diameter</td>
<td>430 mm</td>
</tr>
<tr>
<td>Skid types</td>
<td>Contractor or Mining</td>
</tr>
<tr>
<td>Pump Shaft</td>
<td>17 - 4 PH S.S.</td>
</tr>
<tr>
<td>Mechanical Seal</td>
<td>Run Dry - Sic Vs Tung Faced</td>
</tr>
<tr>
<td>Operating speed range</td>
<td>1400 – 2000 rpm</td>
</tr>
<tr>
<td>Priming System</td>
<td>50SCFm Diaphragm Vac Pump</td>
</tr>
<tr>
<td>Casing Material</td>
<td>Ductile Iron</td>
</tr>
<tr>
<td>Recommended Engine</td>
<td>CAT C11/ Cummins QSX15-300 TO 1800</td>
</tr>
</tbody>
</table>

### PERFORMANCE GUIDE

**PP86C17B 8” X 6” PUMP 140 LPS / 130 M**

**PP86C17 8” X 6” PUMP 200 LPS / 130 M**
**MODEL**
PP86S17 8” X 8” PUMP

**PERFORMANCE GUIDE**
250 LPS / 60 M

**CONSTRUCTION & OPTIONS**
- **Builds**
  - Skid / Pontoon

**PUMP DETAILS**
- **Pump Product Number**
  - PP86S17L71-HG
- **Fuel Capacity**
  - 24hour / 36 hour run
- **Fuel Tank**
  - Single skin / Bunded - 5mm plate used for both
- **Anti Vibration**
  - Isolation mounts fitted - sub to main frames
- **Impeller**
  - Shrouded, CA6NM - S.S.
- **Fuel Tank**
  - Single skin / Bunded - 5mm plate used for both
- **Anti Vibration**
  - Isolation mounts fitted - sub to main frames
- **Impeller diameter**
  - 508 mm
- **Skid types**
  - Contractor or Mining
- **Pump Shaft**
  - 17 - 4 PH S.S.
- **Trailer types**
  - N/A
- **Mechanical Seal**
  - Run Dry – Sic Vs Tung Faced
- **Suction booms**
  - Available on all open air units.
- **Operating speed range**
  - 1400 – 2000 rpm
- **Priming System**
  - 50SCFM Diaphragm Vac Pump
- **Flanges**
  - To customers requirements for size & type.
- **Coupling**
  - SAE Mount Direct.
- **Control Panel**
  - On a fabricated panel stand located centrally
- **Bearings & lubrication**
  - Ball, Grease & Oil options
- **Emergency Stop**
  - Fitted both sides of units – large mushroom
- **Casing Material**
  - Ductile Iron / 27% Chrome Option
- **Optional Extras**
  - Literally 100’s of accessories available.
- **Recommended Engine**
  - CAT C11/ Cummins QSL9

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**MODEL**
PP108S17 10” X 8” PUMP

**PERFORMANCE GUIDE**
300 LPS / 80 M

**CONSTRUCTION & OPTIONS**
- **Builds**
  - Skid / Silent / Pontoon

**PUMP DETAILS**
- **Pump Product Number**
  - PP108S17L71-E114
- **Fuel Capacity**
  - 24hour / 36 hour run
- **Fuel Tank**
  - Single skin / Bunded - 5mm plate used for both
- **Anti Vibration**
  - Isolation mounts fitted - sub to main frames
- **Impeller diameter**
  - 344 mm
- **Skid types**
  - Contractor or Mining
- **Pump Shaft**
  - 17 - 4 PH S.S.
- **Trailer types**
  - N/A
- **Mechanical Seal**
  - Run Dry – Sic Vs Tung Faced
- **Suction booms**
  - Available on all open air units.
- **Operating speed range**
  - 1400 – 2000 rpm
- **Priming System**
  - 50SCFM Diaphragm Vac Pump
- **Flanges**
  - To customers requirements for size & type.
- **Coupling**
  - SAE Mount Direct.
- **Control Panel**
  - On a fabricated panel stand located centrally
- **Bearings & lubrication**
  - Ball, Grease & Oil options
- **Emergency Stop**
  - Fitted both sides of units – large mushroom
- **Casing Material**
  - Ductile Iron
- **Optional Extras**
  - Literally 100’s of accessories available.
- **Recommended Engine**
  - CAT C15/ Cummins QSX15-530 TO 1800
### CONSTRUCTION & OPTIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>PP1212C17 12&quot; X 12&quot; PUMP</th>
<th>PP43C21 4&quot; X 3&quot; PUMP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Builds</strong></td>
<td>Skid / Silent / Pontoon</td>
<td>Skid / Trailer / Silent / Pontoon</td>
</tr>
<tr>
<td><strong>Fuel Capacity</strong></td>
<td>24hour / 36 hour run</td>
<td>180L / 24hour / 36 hour run</td>
</tr>
<tr>
<td><strong>Fuel Tank</strong></td>
<td>Single skin / Bunded - 5mm plate used for both</td>
<td>Single skin / Bunded - 5mm plate used for both</td>
</tr>
<tr>
<td><strong>Anti Vibration</strong></td>
<td>Isolation mounts fitted - sub to main frames</td>
<td>Isolation mounts fitted - sub to main frames</td>
</tr>
<tr>
<td><strong>Skid types</strong></td>
<td>Contractor or Mining</td>
<td>Contractor or Mining</td>
</tr>
<tr>
<td><strong>Trailer types</strong></td>
<td>N/A</td>
<td>Dual axle – on &amp; off road</td>
</tr>
<tr>
<td><strong>Suction booms</strong></td>
<td>Available on all open air units.</td>
<td>Available on all open air skid units.</td>
</tr>
<tr>
<td><strong>Nudge Bar</strong></td>
<td>Available on all open air skid units.</td>
<td>Available on all open air skid units.</td>
</tr>
<tr>
<td><strong>Flanges</strong></td>
<td>To customers requirements for size &amp; type.</td>
<td>To customers requirements for size &amp; type.</td>
</tr>
<tr>
<td><strong>Control Panel</strong></td>
<td>On a fabricated panel stand located centrally</td>
<td>On a fabricated panel stand located centrally</td>
</tr>
<tr>
<td><strong>Emergency Stop</strong></td>
<td>Fitted both sides of units – large mushroom</td>
<td>Fitted both sides of units – large mushroom</td>
</tr>
<tr>
<td><strong>Optional Extras</strong></td>
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### PUMP DETAILS

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<th>PP43C21 4&quot; X 3&quot; PUMP</th>
</tr>
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<tbody>
<tr>
<td><strong>Pump Product Number</strong></td>
<td>PP1212C17L71-E14.</td>
<td>PP43C21L71-E311</td>
</tr>
<tr>
<td><strong>Impeller</strong></td>
<td>Shrouded, CA6NM - S.S.</td>
<td>Run Dry – Sic Vs Tung Faced</td>
</tr>
<tr>
<td><strong>Impeller diameter</strong></td>
<td>374mm</td>
<td>353 mm</td>
</tr>
<tr>
<td><strong>Pump Shaft</strong></td>
<td>17 - 4 PH S.S.</td>
<td>17 - 4 PH S.S.</td>
</tr>
<tr>
<td><strong>Mechanical Seal</strong></td>
<td>Mechanical Seal</td>
<td>Mechanical Seal</td>
</tr>
<tr>
<td><strong>Operating speed range</strong></td>
<td>1400 – 2000 rpm</td>
<td>1500 – 2100 rpm</td>
</tr>
<tr>
<td><strong>Casing Material</strong></td>
<td>Ductile Iron</td>
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</tr>
</tbody>
</table>

### PERFORMANCE GUIDE

![Performance Graph](image_url)
### CONSTRUCTION & OPTIONS

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<th>Builds</th>
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<tr>
<td>Fuel Capacity</td>
<td>180L / 24 hour / 36 hour run</td>
</tr>
<tr>
<td>Impeller</td>
<td>Shrouded, CA6NM - S.S.</td>
</tr>
<tr>
<td>Solids Handling</td>
<td>5mm plate used for both</td>
</tr>
<tr>
<td>Anti Vibration</td>
<td>Isolation mounts fitted - sub to main frames</td>
</tr>
<tr>
<td>Impeller diameter</td>
<td>533 mm</td>
</tr>
<tr>
<td>Skid types</td>
<td>Contractor or Mining</td>
</tr>
<tr>
<td>Pump Shaft</td>
<td>17 - 4 PH S.S.</td>
</tr>
<tr>
<td>Mechanical Seal</td>
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<tr>
<td>Suction booms</td>
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<tr>
<td>Operating speed range</td>
<td>1500 – 2000 rpm</td>
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<tr>
<td>Nudge Bar</td>
<td>Available on all open air skid units.</td>
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<tr>
<td>Priming System</td>
<td>50SCFM Diaphragm Vac Pump</td>
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<tr>
<td>Flanges</td>
<td>To customers requirements for size &amp; type.</td>
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<tr>
<td>Coupling</td>
<td>SAE Mount Direct.</td>
</tr>
<tr>
<td>Control Panel</td>
<td>On a fabricated panel stand located centrally</td>
</tr>
<tr>
<td>Bearings &amp; lubrication</td>
<td>Ball, Grease &amp; Oil options</td>
</tr>
<tr>
<td>Emergency Stop</td>
<td>Fitted both sides of units – large mushroom</td>
</tr>
<tr>
<td>Casing Material</td>
<td>Ductile Iron</td>
</tr>
<tr>
<td>Optional Extras</td>
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</tr>
<tr>
<td>Recommended Engine</td>
<td>CAT C11/ Cummins QSL9 to 1800</td>
</tr>
</tbody>
</table>

### PERFORMANCE GUIDE

<table>
<thead>
<tr>
<th>Build Size</th>
<th>6” X 4” PUMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate</td>
<td>70 LPS / 180 M</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Build Size</th>
<th>8” X 6” PUMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rate</td>
<td>200 LPS / 155 M</td>
</tr>
</tbody>
</table>
PP108C24 10" X 8" PUMP

CONSTRUCTION & OPTIONS

Builds
- Skid / Silent / Pontoon Pump

Fuel Capacity
- 24 hour / 36 hour run

Fuel Tank
- Single skin / Bunded - 5mm plate used for both

Anti Vibration
- Isolation mounts fitted - sub main frames

Impeller diameter
- 610 mm

Skid types
- Contractor or Mining

Pump Shaft
- 17 - 4 PH S.S.

Trailer types
- N/A

Suction booms
- Available on all open air units.

Operating speed range
- 800 – 1800 rpm

Nudge Bar
- Available on all open air skid units.

Priming System
- 50SCFM Diaphragm Vac Pump

Control Panel
- On a fabricated panel stand located centrally

Bearings & lubrication
- Ball, Grease & Oil options

Emergency Stop
- Fitted both sides of units – large mushroom

Casing Material
- Ductile Iron

Optional Extras
- Literally 100’s of accessories available.

Recommended Engine
- CAT C27/ Cummins QSK23-950

PERFORMANCE GUIDE

200 LPS / 180 M

MODEL

Continuous kW @ Max Pump RPM

ENGINE COOLING

CAT

C1.1
12KW @ 2200 RPM
WATER

C1.5
17KW @ 2200 RPM
WATER

C2.2
28KW @ 2200 RPM
WATER

C2.2T
35KW @ 2200 RPM
WATER

C2.2TA
41KW @ 2200 RPM
WATER

3054CNA
51KW @ 2200 RPM
WATER

3054CT
63KW @ 2200 RPM
WATER

C4.4T
51KW @ 2200 RPM
WATER

C4.4A CERT
80KW @ 2200 RPM
WATER

3056NA
67KW @ 2200 RPM
WATER

3056T
88KW @ 2200 RPM
WATER

3056TA
108KW @ 2200 RPM
WATER

C6.6-130
111KW @ 2200 RPM
WATER

C6.6-151
128KW @ 2200 RPM
WATER

C6.6-168
143KW @ 2200 RPM
WATER

C7 ACERT
168KW @ 2200 RPM
WATER

C9 ACERT
224KW @ 2200 RPM
WATER

C11 ACERT
261KW @ 2100 RPM
WATER

C13 ACERT
310KW @ 2100 RPM
WATER

3406
328KW @ 2200 RPM
WATER

C15 ACERT
354KW @ 2100 RPM
WATER

C18 ACERT
448KW @ 2100 RPM
WATER

C27 ACERT
653KW @ 2100 RPM
WATER

C32 ACERT
895KW @ 1800 RPM
WATER

3512B
954KW @ 1800 RPM
WATER

B3.3TAA
51KW @ 2200 RPM
WATER

QS83.3
63KW @ 2200 RPM
WATER

QS84.5
97KW @ 2200 RPM
WATER

QS86.7
151KW @ 2200 RPM
WATER

QSC8.3
183KW @ 2000 RPM
WATER

QSL9
224KW @ 1800 RPM
WATER

M11 - 300
204KW @ 1800 RPM
WATER

M11 - 350
234KW @ 1800 RPM
WATER

QSM11
268KW @ 1800 RPM
WATER

GSX15 -530
395KW @ 1800 RPM
WATER

GSX15 -600
425KW @ 1800 RPM
WATER

GSX19 -760
506KW @ 1800 RPM
WATER

GSX23 -950
598KW @ 1800 RPM
WATER

QSM11
268KW @ 1800 RPM
WATER

S3512B
954KW @ 1800 RPM
WATER

M11 -350
234KW @ 1800 RPM
WATER

QSL9
224KW @ 1800 RPM
WATER

M11 - 300
204KW @ 1800 RPM
WATER

QSM11
268KW @ 1800 RPM
WATER

GSX15 -530
395KW @ 1800 RPM
WATER

GSX15 -600
425KW @ 1800 RPM
WATER

GSX19 -760
506KW @ 1800 RPM
WATER

GSX23 -950
598KW @ 1800 RPM
WATER

ENGINE COOLING

WATER

WATER

WATER

WATER

WATER

WATER

WATER

WATER

WATER

WATER

WATER

WATER

WATER

WATER

WATER

WATER