

Model 36960-2 Series

ELECTRIC BILGE PUMPS

FEATURES

- · Self-Priming
- · Diaphragm Design Allows Dry Running
- · Built-in Hydraulic Pulsation Dampener
- Pumpgard® Strainer Included with Pump
- Corrosion Resistant Materials Throughout for Sea Water Service
- Meets USCG Regulation 183.410 and ISO 8846 MARINE for Ignition Protection

PRODUCT SPECIFICATIONS

| Open Flow | 4.0 GPM |
|---------------------------|-------------------|
| Vertical Dry Suction Lift | 7 Feet (2.1 m) |
| Ports | 3/4" Slip-on Hose |
| Weight | 7 lb. (3.2 kg) |

INSTALLATION

MOUNTING

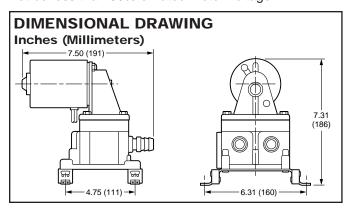
Mount upright in a dry location (above highest bilge water level) on a solid surface. Selection of a dry, cool, ventilated location will generally extend pump life. Locate Pumpgard strainer in accessible spot in suction hose.

PLUMBING

For intake and discharge use 3/4" ID non-collapsible hose. Keep intake and discharge line free of kinks and restrictions. To protect pump from debris, use the 3/4" in-line strainer, Model 36200-0000 in the intake line from the bilge.

WIRING

Wire pump in a circuit independent of all other electrical fixtures. Use stranded copper wire. Install fuse in positive circuit. See table for recommended wire and fuse size. See diagram for wiring instructions. Use a 10 amprated switch (44960-Series). After installation, it is recommended that voltage be checked at the motor terminals with motor operating under full load. Voltage should not be less than 90% of rated motor voitage.





STANDARD MODELS

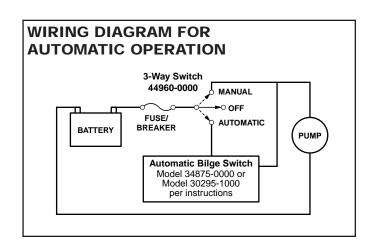
| Model | Voltage | Current | Fuse Size | |
|------------|---------|---------|-----------|--|
| 36960-2000 | 12 Vdc | 6 Amp | 8 Amp | |
| 36960-2010 | 24 Vdc | 5 Amp | 7 Amp | |

WINTER STORAGE

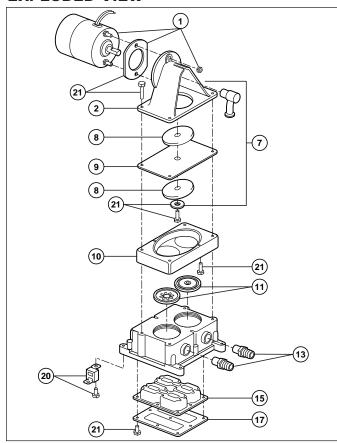
When possible it is preferred that the complete pump be removed and stored in a warm dry place. If this is not possible the pump must be completely drained, hoses removed and pump run until all water is expelled.

WIRE SIZE TABLE

| | Model | Model | |
|---------------------------------------|-----------------------|-----------------------|--|
| Wire Length Between Battery and Motor | 36960-2000 12 Volt | 36960-2010 24 Volt | |
| 1-25 ft. | 12 AWG | 14 AWG | |
| 26-50 ft. | 10 AWG | 14 AWG | |



EXPLODED VIEW



| Key | Part No. | Description | Qty |
|-----|------------|-------------------------------|-------|
| 1 | 30202-0000 | Motor Kit 12 Vdc | 1 |
| 1 | 30201-0010 | Motor Kit 24 Vdc | 1 |
| 2 | 35487-0000 | Motor Mount | 1 |
| 7 | 30040-0000 | Connecting Rod Assembly* | 1 |
| 8 | 35688-0000 | Diaphragm Plate | 2 |
| 9 | 30015-0000 | Diaphragm* | 1 |
| 10 | 35455-0000 | Retainer | 1 |
| 11 | 30003-0000 | Valve Set (Inlet & Outlet)* ‡ | 1 Set |
| 12 | 44114-1000 | Base Assembly ‡ | 1 |
| 13 | 37175-0000 | Ports (Inlet & Outlet) Barb ‡ | 1 Set |
| 14 | 44127-1000 | Pulsation Dampener* | 1 |
| 15 | 35686-0000 | Bottom Plate ‡ | 1 |
| 20 | 44990-0058 | Vibration Pad Kit | 1 Set |
| 21 | 43990-0060 | Hardware Kit | 1 Set |
| | 43990-0063 | Service Kit* | |

* Indicates parts contained in Service Kit

‡ Indicates parts supplied with Base Assembly

Jabsco



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TROUBLESHOOTING

Problems Causas

Loss of suction to pump

- Air leak in suction lineBilge pickup not submerged
- Intake hose kinked or plugged
- Fouled intake or discharge valve
- Ruptured diaphragm

Rough or noisy operation

- Intake or discharge hose kinked or plugged
- Pump not mounted firmly
- Loosened eccentric set screw or worn connecting rod assembly
- Ruptured or collapsed pulsation dampener.

VALVE REPLACEMENT

- 1. Turn off power to pump. Remove four motor mount tie down bolts.
- 2. Expose valves by lifting motor mount and the attached diaphragm assembly from pump base.
- 3. Remove valve retaining plate. Remove and clear or replace valves.
- 4. Install valves, making sure rubber flapper is UP on intake and DOWN on discharge. Replace valve retaining plate.
- Replace motor-mount-diaphragm assembly and fasten evenly to base with the four tie down bolts.

DIAPHRAGM AND CONNECTING ROD REPLACEMENT

- 1. Turn off power to pump. Remove four motor mount tie down bolts.
- 2. Lift motor mount and the attached diaphragm assembly from pump base.
- 3. Remove two diaphragm retainer screws and the diaphragm retainer.
- 4. Pull connecting rod assembly and diaphragm from motor mount, then, unscrew bolt to separate diaphragm plates.
- 5. Loosely reassemble new diaphragm, diaphragm plates, washer and diaphragm boft onto new connecting rod assembly.
- Slide connecting rod on shaft. Ensure that eccentric is firmly seated on motor shaft and set screw firmly against flat side of shaft.
- Tighten connecting rod bolt while maintaining alignment of rod bearing eccentric. NOTICE. Avoid misalignment or twisting of rod on eccentric shaft or excessive bearing wear will result.

PULSATION DAMPENER REPLACEMENT

- 1. Disconnect power leads from pump and remove from mount.
- 2. Remove nine bottom plate screws and the bottom plate. Pull out and replace pulsation dampener
- 3. Replace bottom plate and screws. Tighten evenly to ensure an air and water seal.

THE PRODUCTS DESCRIBED HEREIN ARE SUBJECT TO THE

JABSCO ONE YEAR LIMITED WARRANTY. WHICH IS AVAILABLE

Form: 43000-0532

4. Reinstall pump and reconnect power leads.

MARINE SWITCH PANELS







Unlighted SPST