

# **ELECTRIC BILGE PUMPS**

### **FEATURES**

- Pumpgard Inlet Strainer Supplied With Pump
- Self-Priming
- Diaphragm Design Allows Dry Running
- Built-in Hydraulic Pulsation Dampener
- Corrosion Resistant Materials Throughout for Sea Water Service
- Meets USCG Electrical Regulation 183.410 and ISO 8846 Marine for Ignition Protection.
- N.M.M.A. Type Accepted

#### **SPECIFICATIONS**

Open Flow:	4.5 GPM
Vert. Dry Suction Lift:	7 feet
Ports:	3/4" Slip-on Hose
Weight:	5.5 lb (2,5 kg)

### INSTALLATION

#### MOUNTING

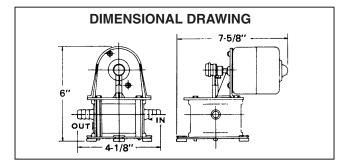
Mount upright in a dry location (above highest bilge water level) on a solid surface. Mounting screws should be tightened only enough to slightly compress grommets. Overtightened screws will reduce cushioning effect of mounts and may cause excessive noise.

#### PLUMBING

For intake and discharge, use 3/4" ID non-collapsible hose. Keep intake and discharge lines free of kinks and restrictions. To protect pump from debris, install the 3/4" in-line strainer (Model 36200-0000) in the intake line from the bilge. Use a 3/4" thru-hull fitting for discharge located well above the waterline at all angles of heel.

#### 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 connections. Use a 10 amp-rated switch (3-way switch Model 44960-0001). After installation, it is recommended that voltage be checked at the motor terminals with motor operating under full load. Be sure measured voltage is not less than 11 volts on a 12 volt system with a fully charged battery.



# Model 37202-Series



Model	Voltage	Nominal Current	Fuse Size
37202-0000	12 Vdc	7.5 AMP	10 AMP
37202-0010	24 Vdc	6.5 AMP	10 AMP

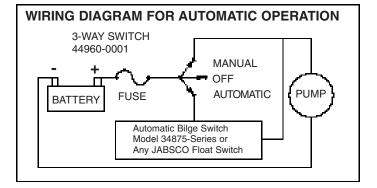
#### MAINTENANCE

**LUBRICATION:** Check connecting rod bearing annually and add chassis lube as needed. No other lubrication of the pump is required.

**WINTER STORAGE:** The pump must be completely drained, hoses removed and pump run until all water is expelled.

#### WIRING TABLE

Wire Length Between Battery and Motor	Wire Gauge
1 - 25 feet	12 AWG
25 - 50 feet	10 AWG



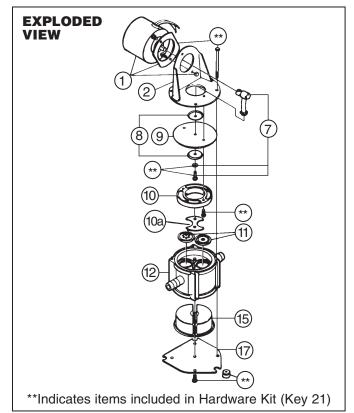
## Jabsco Pumps 37202-0020 www.PumpAgents.com - Click here for Pricing/Ordering for Pumps and Parts

SERVICE

**TROUBLE SHOOTING Problems** 

Loss of suction to pump:

Rough or noisy operation:



#### PARTS LIST 37201/37202-SERIES

KEY	DESCRIPTION	PART NUMBER	QTY.
1	Motor Kit 12 Vdc	30201-0000	1
1	Motor Kit 24 Vdc	30200-0040	1
2	Motor Mount	35797-0000	1
7	Connecting Rod Kit	30040-0000*	1
8	Diaphragm Plate	35688-0000	2
9	Diaphragm	37174-0000*	1
10	Retainer	35788-0000	1
10a	Valve Retaining Plate	35816-0000	1
11	Valve Set (Inlet & Outlet)	30005-0000*	1 Set
12	Base	35795-0000	1
15	Pulsation Dampener	37179-0000*	1
17	Bottom Plate	35798-0000	1
21	Hardware Kit	37168-0000	1 Set
	Service Kit	37182-0000	

\* Indicates Parts Contained in Service Kit.

NOTE 1 - For Model 37201-0000 Use Replacement Motor Number 30202-0000 (12 Volt only).

NOTE 2 - For Model 37201-0000 Use 2 Each 35983-0000 Diaphragm Plates.

### Jabsco



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- Causes
- Air leak in suction line.
- Bilge pickup not submerged.
  - Intake hose kinked or plugged.
  - Fouled intake or discharge valve.
- Ruptured diaphragm.
- Intake or discharge hose kinked or plugged.
- Pump not mounted firmly.
- Loosened eccentric set screw or worn connecting rod bearing.
- Ruptured or collapsed pulsation dampener.

#### VALVE REPLACEMENT

- 1. Turn off power to pump. Remove four tie down bolts.
- 2. Expose valves by lifting motor mount and the attached diaphragm assembly from pump base.
- 3. Remove and clean or replace valves.
- 4. Install valves, making sure rubber flapper is UP on intake and DOWN on discharge. Replace valve retaining plate.
- 5. 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 bolt onto new connecting rod assembly.
- 6. Slide connecting rod on shaft. Ensure that eccentric is firmly seated on motor shaft and tighten set screw firmly against flat side of shaft.
- 7. Loosely reassemble diaphragm, diaphragm plates, washer and diaphragm bolt onto connecting rod. 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. Remove four tie down bolts.
- 2. Remove bottom plate screw and the bottom plate. Pull out and replace pulsation dampener; position the 3-ribbed cavity on discharge side.
- 3. Replace bottom plate and screw. Tighten evenly to base with the four tie down bolts.
- 4. Reinstall pump and reconnect power leads.

#### PUMPGARD REPLACEMENT PARTS

Part Description	Part Number
Screen Replacement	36139-000
O-Ring Seal	36403-0000

THE PRODUCTS DESCRIBED HEREIN ARE SUBJECT TO THE JABSCO ONE YEAR LIMITED WARRANTY. WHICH IS AVAILABLE FOR YOUR INSPECTION UPON REQUEST.

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