Thank you for purchasing this Whale® product. For over 40 years, Whale has led the way in the design and manufacture of freshwater and waste systems including: pumps, plumbing faucets, showers for low voltage applications. The company and its products have built a reputation for quality, reliability and innovation backed up by excellent customer service.

To the Installer
Check that the product is suitable for the intended application, follow these installation instructions and ensure all relevant personnel read the points listed below. Also ensure that these operating instructions are passed on to the end user.

To the User
Read the following instructions carefully.

Application
The Gulper® Grouper has been designed to pump water and small solids from a fish box overboard. Output capacity depends on installation and operating conditions.

Warnings
Note: If the Gulper® Grouper is intended for use for any other purpose or with any other liquid, it is the user’s responsibility to ensure that the pump is suitable for the intended use, and in particular, the materials are fully compatible with the liquids to be used. With all applications, it is important that a system of safe working practice is applied to the installation, use and maintenance.

Installation
Choose a position to mount the pump that is dry and away from standing water. The pump may be mounted on a horizontal or vertical surface. When mounted vertically ensure that the pump head is lower most (see Fig 1).

The Whale® Gulper® Grouper pump must be installed at or below the level of the fish box drain. When mounting, position the pump on the intended surface then mark the 4 holes position using the pump feet.
• The pump head maybe rotated to suit the hose connections; this is done by loosening the two screws which hold the clamping rings and rotating the pump head. (Fig 2)
• Once you have marked the position for the four mounting feet, drill four pilot holes of 3.2mm(1/8"). Use the four No.8 self-tappers and washers to secure the pump.
• Inspect and ensure that the tricuspid valves are seated on both inlet and outlet ports (NOTE: both valves must “point” in the same direction)
• Install ports to the pump head (see Fig 3)
• Connect 1 ½" ID (non-collapsible vacuum rated) hose to the inlet side and 1" ID reinforced hose to the outlet side.

Fig 3 - Gulper® Grouper dimensional diagram

**Electrical Connections**

- The polarity is indicated by coloured cable (Positive -red, Negative - black). The pump can be protected against reverse polarity connection, either with a diode or with the Deutsch connector as supplied. Minimum wire size is to be 1.5mm² or 16 AWG.

  **Note:** Undersized wire reduces voltage under load at the pump, thus giving poor performance and potential motor failure.

- To control the pump, an in-line switch should be fitted between the positive live terminal on the battery and the positive lead on the pump. If using an automatic switch (such as a float switch) an isolator switch should be fitted.

**Circuit Breaker / In-Line Fuse Assembly:**
The purpose of this is to protect the pump from serious damage in the event of system blockages and must be installed on the positive side of the pump.

1. If the circuit breaker trips, or the fuse blows check:
   a) All system valves / stop cocks are open (if installed).
   b) The inlet and outlet ports are not blocked.
   c) The remainder of the system is not blocked in anyway.
2. For 12V d.c. models, use a 7.5 Amp automotive fuse. For 24V d.c. models, use a 5 Amp automotive fuse.
This Whale® Gulper® Grouper is designed to only require minimal maintenance.

**WARNING**: Before servicing pump, turn off pump and drain water from system. Ensure that the pump is disconnected from electrics and plumbing during maintenance.

**Optimal Performance**
- Ensure this product is clear of debris
- Flush with water after each use.
- Check wire connections once per season.
- Check / retighten hose clamps on elbow connections once per season

**Annual checks** - Whale advise that the boat’s plumbing system is checked annually for leaks and obstructions. Also a pump electrics check is advisable.

**To inspect or replace the diaphragm**, the user must firstly remove the pump head clamping rings; this is done by unscrewing the two clamping screws. This will release the pump head, and allow easy access to the diaphragm.
- If diaphragm shows signs of wear, damage or cracks it should be replaced (using Service Kit AK1557). If the diaphragm needs replaced, undo the nut in the centre of the diaphragm and remove the diaphragm plate and diaphragm.

**Note**: The centre pin may be in one of several positions; (this will not affect replacement of the diaphragm).
- When replacing, the diaphragm can be fitted either cup up or down.
- Refit the clamping plate making sure the rounded outside edge faces the diaphragm, also ensure that the outer sealing edge of the diaphragm is located securely in the grooves between the body and gear housing (failure to do this will cause the pump NOT to prime).
- Refit clamping rings and tighten screws.
To inspect or replace the tricuspid valve(s), unscrew either or both housings to expose the valve(s). If a valve shows signs of wear or damage, replace and re-assemble housings.

**Troubleshooting**

**Electric motor runs but doesn’t pump**
- Disconnect pump and turn off all power.
- Disconnect hoses and unscrew housings.
- Check entire hose system for blockage.
- Inspect tricuspid valves for blockage or inverted valve(s).
- If valve(s) are blocked, remove the blockage, re-assemble the pump and continue use.
- If a tricuspid valve is inverted, replace with a new tricuspid valve, reassemble the pump and continue use.

**If the electric motor will not operate, check that:**
- The isolator switch is on.
- There is 12 volts at the battery terminals.
- The In-line fuse / circuit breaker are operational.

If the fuse / circuit breaker has blown, check for debris in pump head and clean out if necessary. Replace the fuse or re-set circuit breaker and run the pump.

**Winterizing**

**NOTE** - When winterizing, fully drain system. Whale® does not cover damage, caused by the system not being not fully drained for winterizing.

**Service Support Details**
Spare Kit Part No: AK1557 - Diaphragms & Valves.

**Warranty**
Whale® Gulper® pumps are guaranteed for one year from date of purchase. Please see the enclosed document for details of our statement of limited warranty.

**Declaration of Conformity**

We herewith declare that the Gulper® Grouper (12V and 24V) models conform to the requirements of EMC directive 2004/108/EC including amendments, and to the following other relevant Directives, and has used the following harmonised standards, European and national standards in the confirming assessment.

Standards - EN5501, EN55022, EN28846

Stanley McFarland - Engineering Director

Old Belfast Road, Bangor,
N. Ireland BT19 1LT
Tel: +44 (0)28 9127 0531
Fax: +44 (0)28 9146 6421
Email: info@whalepumps.com

PO Box 1788, 91 Manchester Valley Road
Manchester Centre, VT 05255
USA Tel: +1 802 367 1091
USA Fax: +1 802 367 1095
Email: usasales@whalepumps.com

www.whalepumps.com