



# Self-Venting Submersible & In-Line Booster Pumps 12V d.c. & 24V d.c.

Read carefully before installation and use;

## To The Fitter

Ensure all the relevant personnel read the points listed below and that a copy is passed on to the end user.

## To The User

Read the points listed below before installation and use of equipment.

## Application

The Whale Submersible pump is designed to be run fully submerged in water. The Whale In-Line Booster pump is designed to be run in the pipe line between the water supply and the outlet, if they are intended for any other purpose or for use with any liquid other than clean cold water it is the users responsibility to ensure that the materials are fully compatible with the liquids to be used and that a system of safe working practice is applied to installation and use.

## Installation

The pumps are rated for intermittent use only.\* The Standard pump is available as a 12V d.c submersible model. The Whale Premium pump is available in 12V d.c. or 24V d.c. submersible and in-line booster models. The Whale High Flow pump is available as 12V d.c. submersible and in-line booster models.

The Whale Submersible and In-Line Booster pumps have 3/4" (19mm) hose tails. They can be adapted for 1/2" (13mm) hose by pushing on the 1/2" adaptors supplied with the pump (Does not come with Standard Pump available separately as part AK1330).

\* Maximum continuous operation should not exceed 15 minutes.

Note: Ensure that the 1/2" adaptors are pressed on firmly. Once fitted the 1/2" adaptors cannot be removed.

For connection to Whale Semi-Rigid pipe systems. Quick Connect fittings are available separately; Part No. WU12\*\* for 12mm pipe and WX1511B for 15mm pipe.

Installation of the Whale Submersible pump is extremely simple. Fit the required length of hose to the pump and then fully immerse the pump in the water tank. Connect to an appropriate 12 or 24 Volt power supply and switch.

The whale submersible Pumps may be used with a Whale In-Line Pressure Switch, (WU7207) as long as an isolator switch is installed to protect the pump from accidental switch-on when the system is not in use. The pressure switch should be fitted on to the hose, close to the pump before any other fittings (see Fig. B).

The Whale In-line Booster Pump must be installed in the following ways;

1. Below the level of the water tank such that the pump is constantly primed by gravity (fig. 1)  
OR
2. In conjunction with:
  - a) a hand-operated pump (fig. A2)
  - b) a foot operated pump (fig. A3)
  - c) in-line to boost a submersible pump (fig. A4)

### Notes:

- The pump outlet should be higher than the inlet.
- Position the In-Line Booster pump in the suction pipe between the foot pump and the water tank, not between the foot pump and faucet.
- The Whale In-Line Booster pump is light enough to suspend in the pipework.
- The Whale In-Line Booster Pump is a sealed unit and can be submersed in water.
- To avoid entry of air or water leaks it is important that all hose connections (to pump, tank, water heater and taps or faucets) should be securely fastened.

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## Operation

When fully immersed in water the Submersible pump is primed and gives instant delivery of water. Where there is a long run of pipe between the pump and the faucet it is helpful to insert a non return valve (FV1227) in the pipe close to the faucet.

As the Whale In-Line Booster pump is not self-priming, it is necessary to prime the system with either:

- a hand pump (as in fig. A2). Pump until full flow from faucet is seen
- a foot pump (as in fig. A3). Pump until full flow from faucet is seen
- by gravity (as in fig. A1)

Once primed, the valves in the hand or foot pump should maintain prime and enable repeated use of the In-Line Booster pump without further priming. As an additional safeguard, a Whale 1/2" non return valve (FV1227) can be inserted in the suction pipe. (fig. 2) Only when the water supply has been completely drained and the tank refilled should re-priming be necessary. When using a Whale Tiptoe pump, it is preferable to leave the plunger in the "locked down" position whilst operating the In-Line Booster Pump.

## Notes:

- Do not run the pump dry. (without water)
- Do not use the pump in water temperature above 60°C (140°F)
- It is best to stand the submersible pump vertically in the tank.
- Maximum continuous operation should not exceed 15 minutes.

## Maintenance

Pumps fitted with a strainer (not in-line type) should be inspected and cleaned at frequent intervals. Ensuring the water supply is free of debris especially from tanks will reduce the likelihood of pump clog. These pumps are sealed units, so no further maintenance is required.



Winterizing: To protect against damage as a result of freezing, drain the entire water system.

## Helpful Hints

### Helpful Hints:

To obtain efficient running and maximum life note the following points:

- For Submersibles - Before switching on, place the pump in water and shake for a few seconds in a horizontal or inverted position to release trapped air. This will ensure successful priming and should be repeated after refilling the water tank.
- For the Whale In-Line Booster pump - Before switching on check that there is water in the tank and that the system has been primed. There is a full flow of water using the manual or foot pump.)
- Check that all hose connections are secure and airtight. Note: It is possible to have an air leak without having a water leak!
- Check that the power supply is at or is close to 12 or 24 volts depending on the model. Reduced voltage (ie a weak battery) or wire of a thickness of less than AWG #16 will give reduced pump performance.
- Ensure that there is adequate ventilation in the water tank to prevent a vacuum building up, causing restricted water flow. Any cap fitting must have a ventilation hole of at least 3/16" (5mm) diameter.
- For Submersibles - The Whale Tiptoe pump (GP1309) can be fitted in-line and used as a manual back up.
- Check that the polarity is correct i.e. brown to '+' and blue to '-'.

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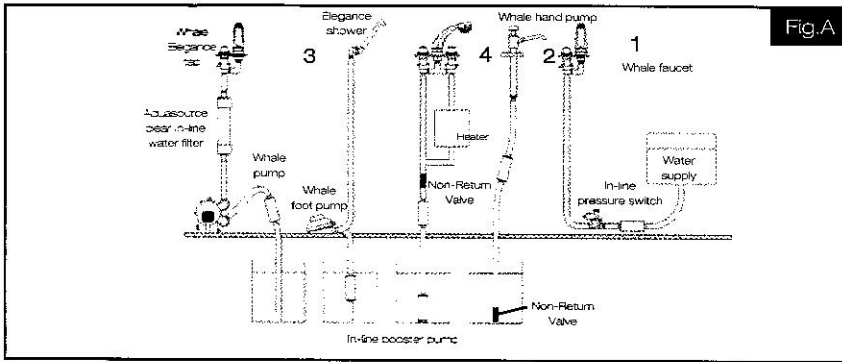


Fig.A

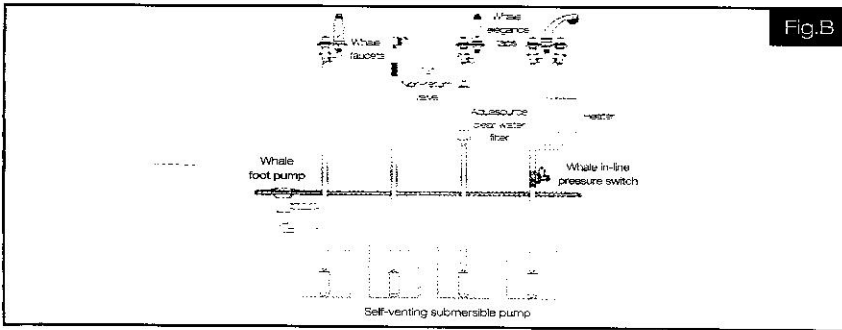


Fig.B

## EC Declaration of Conformity

Description of Equipment: Standard, Premium and High Flow pumps

We hereby declare, under our sole responsibility, that the above equipment complies with the provisions of the following EC Directives. Electromagnetic Compatibility Directive 89/336/EEC, amended by 92/31/EEC and 93/68/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

CE mark affixed: 20/9/06

### Basis on which conformity is declared

The above equipment complies with the protection requirements of the EMC Directive.

### Standards applied

EN60335-1:2002 Safety of household and similar electrical appliances.

EN60335-2-41:2003 Particular requirements for pumps.

EN55014-1:2000 Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Emission

Signed (Authorised person)

David Cresswell 2/10/06

Position : Engineering Director:

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WARRANT

This product is covered by a one year warranty subject to the terms detailed below.

## Statement of limited warranty

The products manufactured by Munster Simms Engineering Limited (Whale Water Systems Inc.) (the "Company"), are warranted to be free from defects in design, workmanship and material under normal use, save that this warranty shall not apply where the defect or fault is attributable to defective materials supplied by third parties where the Buyer's only remedy will be against that third party. This warranty applies only to products that are properly installed and used in accordance with all maintenance and operation instructions provided by the company. Whale products are covered by a 1 year limited warranty (detailed below) from date of purchase, with the following enhancements:

- Manual Bilge Pumps, Manual Freshwater, Manual Toilet Pumps: 5 years from date of purchase (except for Smartball models which are covered for 3 years from date of purchase).
- Electric Freshwater Pumps: 1 year from date of purchase except Universal Pumps which are 2 years from date of purchase.
- Quick Connect Plumbing (fittings and WhaleX tubing only): Whale Quick Connect fittings and WhaleX tubing (only) are covered for 10 years from date of purchase.

The Company reserves the right to repair, replace or issue a spares kit for the defective item subject to examination at Company premises. Adjustment or replacement of defective parts made under this warranty will not extend the original warranty period. The Company is not obligated to bear any costs of removal, installation, transportation, or other charges that may arise in connection with a warranty claim. No claim in respect of defective goods will be valid unless the alleged defective goods are returned at the Purchaser's expense to the Company for inspection with proof of purchase.

Products that have been disassembled or modified (without prior approval of the Company), are not included in the Company's warranty.

Non-stock/ special order items are non-returnable, and warranty does not apply to prototype models.

## Exclusions

Nothing in this clause shall be deemed to exclude or restrict the Company's liability for death or personal injury resulting from its negligence.

The Company shall not be liable for any indirect loss or for any special, incidental, punitive or consequential damages suffered by the Purchaser and/or any other person whether this loss arises from breach of a duty in contract or tort or breach of a statutory duty or in any other way including without limitation loss arising from the negligence, default, breach of duty, non-delivery, delay in delivery or defects or errors in the work undertaken by the Company pursuant to the terms of this statement or in connection with any other claim. In particular the Company shall not be liable (without limitation) for: loss of profits, increased production costs or other economic injury or loss; loss of contracts or opportunity; damage to property of the purchaser or anyone else; personal injury to the purchaser or anyone else except insofar as such injury is attributable to the Company's negligence;

The Company shall under no circumstances be liable for any loss, damage, detention, delay or failure to perform hereunder (other than failure to pay money) resulting from causes beyond its control including but not limited to fires, strikes, lockouts, insurrection or riots, terrorism or civil disorder, embargoes, wrecks or delays in transportation, requirements or regulations of any governmental authority, tempest, earthquake or other natural disaster, flood, bursting or overflowing of water tanks, failure or shortage of power, fuel or other utilities, or loss of data and/or communications due to causes such as those referred to in this clause, outside the Company's control. This statement sets out the Company's entire liability in respect of the products and the Company's liability under this statement shall be in lieu of all other warranties, conditions, terms and liabilities, express or implied, statutory or otherwise howsoever except any implied by law which cannot be excluded.

The above does not affect the statutory rights of the consumer.

The Company shall NOT be liable for any condition, warranty or representation made by a Distributor or other person acting on behalf of the Company unless expressly authorised by the Company to do so. This statement shall be governed and construed in accordance with Northern Irish law and all disputes arising in connection with the statement shall be submitted to the jurisdiction of the Northern Irish Courts.

Ref.No. 181.01

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