



Operating Instructions for D-D Peristaltic Pumps

TECHNICAL

Peristaltic pumps can be a simple and controllable way of metering water within the aquarium and we have developed the two models shown below based on reliability and function rather than to the lowest price.

The two pumps in the range are both non variable. This is due to the fact that variable pumps from almost any manufacturer will have a lifespan of approximately 6-12 months if used continuously due to wearing of the carbon brushes on the DC motor which have a finite life and can not be replaced.

The D-D pumps all use Santoprene tubes for their longevity compared to cheaper silicone tubes which can split during extended operation.

D-D pumps use 3 or 4 roller bearings which will ensure that the tube is always nipped in at least one point. Other lower cost pumps with 2 bearings can easily back siphon if the pump is stopped.*

SPECIFICATIONS

Model - PP1ML Fixed Speed Peristaltic Pump

Flow Rate - approx 1ml/min 60mls/hr / 0.1 drops/sec.

Tube Material – Santoprene

Tube bore – 1.6mm ID

Number of Rollers – 4

Voltage – 230V and 110V models available.

Use - Specifically designed for feeding Nitrate fluid to Nitrate Reactors. Can be used to add trace elements.

Model – PP32ML (PP6ML) Fixed Speed Peristaltic Pump

Flow Rate - approx 32.5ml/min / 2000mls/hr / nominal 4 drops/sec.

Tube Material – Santoprene

Tube bore – 5.0mm ID

Number of Rollers – 3

Voltage – 230V and 110V models available.

Use - Designed for feeding water to Calcium Reactors and Nitrate Reactors. Can be used to add trace elements.

IMPORTANT SAFETY PRECAUTIONS

Please read the following precautions carefully before using this equipment. This unit contains high voltage circuits that may expose you to the danger of electric shock.

- Do not mount the unit to unstable, irregular or non-vertical services.
- Do not place heavy objects on top of the unit.
- Do not attempt to place items (such as screwdrivers) into the moving parts of the pump head.
- Do not power the unit outside of the values stated on the rating label.
- Do not use damaged or frayed cables.
- Do not dismantle or modify this equipment.
- Always take care to avoid kinking of suction or delivery tubes.

This product is designed to deliver a constant dose of liquid. Always minimise the working time of the pump. DO NOT LEAVE RUNNING IF UNNECESSARY. Do not dead head the pump or pump against pressures in excess of 1 bar.

The peristaltic pump is fitted with a flexible tube (please check chemical compatibility prior to use) and is designed to pull water or water based chemicals from a drum or vessel located below the pump (max lift 3 metres) The pump will pump up to 10 metres vertical on the discharge side. *It is recommended that a check valve be fitted after the pump for high vertical runs to prevent flow back.

The pump head is a disposable cartridge. To change the head remove the two screws that hold the pump head to the box and pull the pump head away from the box. When fitting the new pump head carefully line up the female D on the pump head with the flat on the motor shaft and push onto the box. Ensure that the two rubber washers are fitted to the fixing screws between the pump head and the box. IMPORTANT – DO NOT OVERTIGHTEN THE FIXING SCREWS.

The tube is a wearing part, so is not covered by warranty, so it is recommended that the tube or the complete head be routinely changed periodically. The manufacturer accepts no responsibility for damage caused by splitting tube.

For further information visit www.theaquariumsolution.com