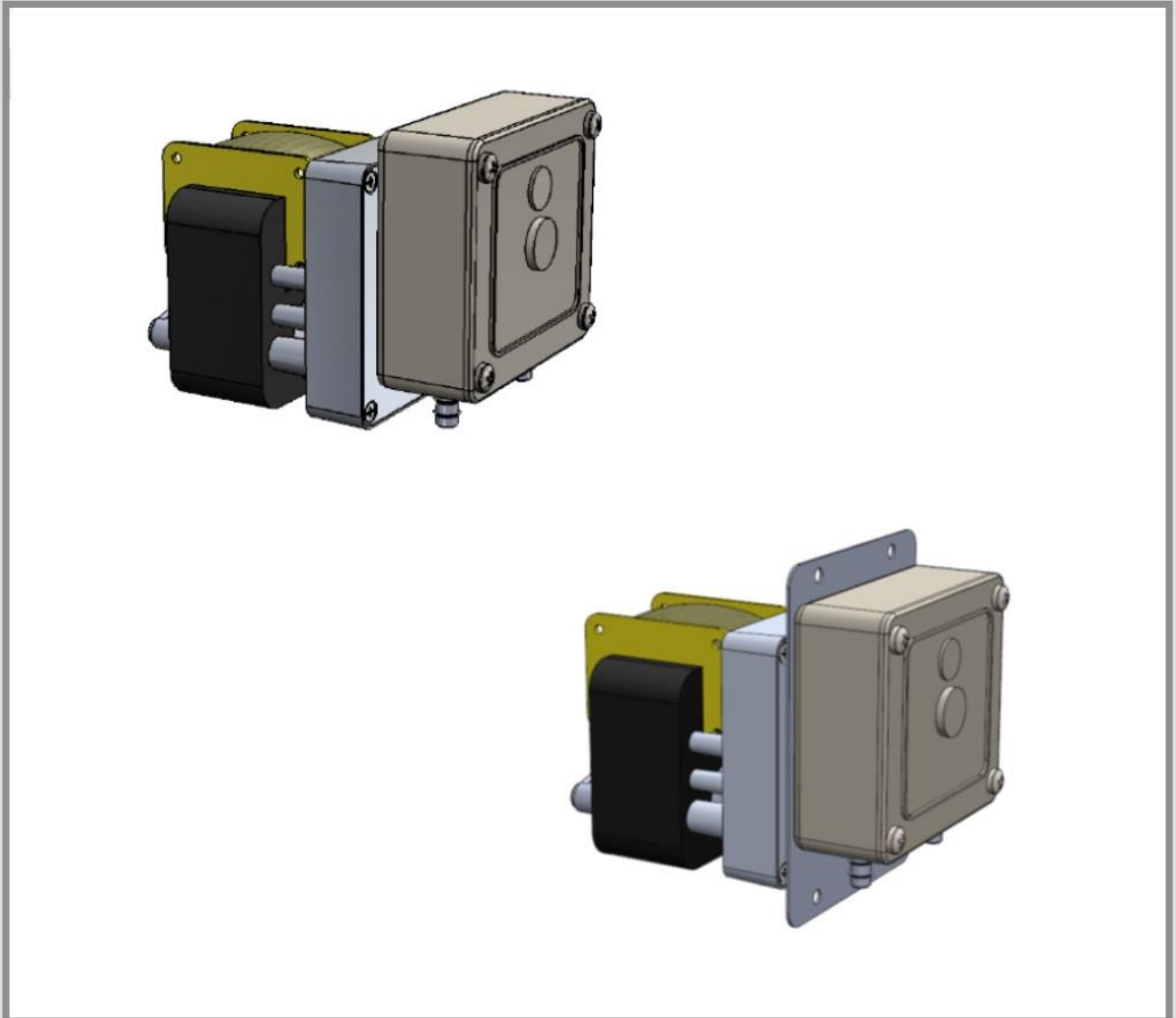


AMBIC[®]

Low Volume AC Peristaltic Pump



OPERATING INSTRUCTIONS

leading best practice in livestock health management

Ambic Equipment Ltd – Low Volume Peristaltic Pump (AC) Operating Notes

Introduction

This mains (230V AC) Low Volume Peristaltic Pump Assembly is a stand-alone pump for use with detergent, rinse aid or acid and alkaline based products. It is supplied either with or without a stainless steel mounting plate. Please check a chemical chart for other chemicals suitable for use with the type of peristaltic tube fitted. This Peristaltic Pump is a positive displacement pump; the pressure of the spinner turning squeezes the pump's tube so that as the spinner rolls along the tube it pushes the medium in the tube in a clockwise direction.

Safety

This unit must be earthed.

Electrical



CAUTION: To avoid severe or fatal shock, always disconnect main power when servicing the unit. Access to LIVE PARTS is possible when the motor is powered.

Chemical



CAUTION: Wear protective clothing and eyewear when dispensing chemicals or any other materials. Observe safety handling instructions (MSDS) of chemical manufacturers.

Switch off the Pump if any chemical leaks are detected coming from the peristaltic tube.

Installation

1. Select a suitable enclosure to fit the pump – not supplied.
2. Mount the enclosure in the vertical position.
 - The area should be dry (do not use in a wash down area).
 - The unit should be positioned about 1m from the chemical and not positioned above any electrical items/installations.
3. Attach the intake line (left side) and delivery line (right side) to the pump and fit hose clamps over both tubes – not supplied.
4. If required, ensure that there is a filter on the end of the intake line – not supplied.
5. This unit must be earthed.

Specification

Delivery rate	340ml/minute
Motor speed	100RPM
Voltage	230V 50 Hz
Power input	35W
Dimensions	120mm x 78mm x 120mm
Weight	1.5Kg
Material in contact with media	Santoprene
Hose Material	Polypropylene

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Operation

After installing the Pump enclosure, the system is now ready to use.

1. Place the intake line into the chemical. Only use a chemical which is compatible with the tube fitted in the pump.
2. Switch the pump ON; the pump can be heard starting to run. The pump is self-priming and as long as there is no restriction on the outlet side the pump will deliver the chemical.
3. The motor will stop when the power to the motor is switched OFF.

Pump Maintenance

The peristaltic pump tube should be checked regularly for wear. It should also be kept clean and lubricated with silicone grease. We also recommend that the tube be changed at regular intervals, depending upon how long the pump has been in use and the type of fluid being pumped through it.

Replacing the peristaltic tube

WARNING: Face mask, gloves & other protective gear must be used for protection from chemical contact.

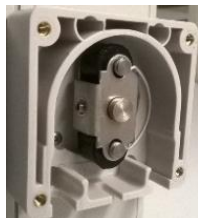
1. If possible, drain the chemical from the Pump Tube and run the pump with clean water to remove the chemical from the tube.
2. Switch the Pump OFF.
3. Remove the inlet (suction) and outlet (delivery) tube / hose. Warm the tube using a heat gun (if required), then twist and slowly pull back. Remove the four screws holding the cover, gently pull the tube from the Pump housing and discard safely.



Warning – A sudden pull on the tube may splash residual chemicals from the tube.



4. Turn the roller assembly so that it is at the 12 o'clock position. Apply a pea sized amount of silicone grease to the new tube before inserting in the pump block.



5. Fit the tube spigots to the pump block so that the spigot ridges are in the correct place. Pinch the centre of tube and push it between the roller and pump housing at the 12 o'clock position.



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6. Fit the cover and secure using the four M4 x 10 screws.
Fit the inlet (suction) and outlet (delivery) tube/ hose. Fit hose clips if required.







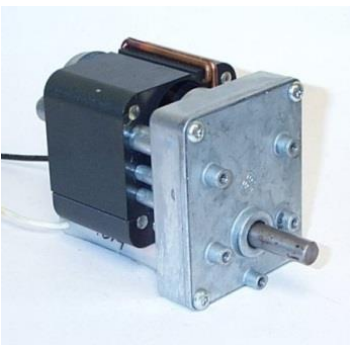
Troubleshooting

Fault	Cause	Remedy
Pump does not work	Pump is not connected to the supply. The supply is Switched OFF.	Check that pump is connected to supply voltage. Switch the supply ON.
No output delivery	Pump is not running. Inlet tube is not connected to the left-hand Spigot. Suction tube assembly is not properly inserted into chemical drum. Stiffener not fitted to the suction tube. Kinks in the suction and/or delivery tube.	Connect the power to the pump. Connect the inlet (suction) tube to the left-hand spigot. Insert the suction tube into the drum. Fit a stiffener tube; this will help with keeping the suction tube to the bottom of the drum. Remove the kink and make sure it does not happen in the same place again.
Pump does not lift the liquid	Peristaltic tube needs replacing.	Replace the tube with tubing of the correct material, size bore, spigot and shore hardness.
Chemical seems to lift and then drop back.	Peristaltic tube needs replacing. Air getting inside the tube.	Replace the tube with correct material, size bore, spigot and shore hardness. Check if the suction tube is fitted tight on the spigot and if necessary fit a hose clip.

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Parts Listing

The following spare parts are available to order separately:

<p>ALP/101-SA625-PP Peristaltic Tube</p>	<p>ALP/102 Roller Assembly</p>
 A long, thin, light-colored peristaltic tube with blue fittings at both ends. A small square label with the Ambic logo is attached to the bottom center.	 A black plastic roller assembly with a metal roller and a metal bracket.
<p>ALP/103 Pump block and cover</p>	<p>ALP/115 Silicone grease</p>
 A white plastic pump block and cover with a circular opening on the front and four screws on the sides.	 A white tube of silicone grease with a blue label that reads "AMBIC Silicone Grease" and other technical specifications.
<p>ALP/100-230-100 AC Motor</p>	
 A black AC motor with a metal housing and a shaft protruding from the side.	

The information in this leaflet is for general information and guidance only. Ambic Equipment Ltd does not provide any warranty on the application of Pumps or Pump Assemblies. It is recommended that customers carry out life tests for their particular application to determine suitability prior to use. The information provided is given in good faith and believed to be current and correct at the time of publication. Ambic Equipment Ltd cannot accept responsibility for any errors or omissions contained in this document.

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Ambic Equipment Limited,
1 Parkside, Avenue Two, Station Lane,
Witney, Oxfordshire, OX28 4YF. England
Tel: +44 (0)1993 776555 Fax: +44 (0)1993 779039
www.ambic.co.uk