

Low & Medium-volume AC Peristaltic Pump



OPERATING INSTRUCTIONS

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Introduction

This mains (230V AC) Low & Medium-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.

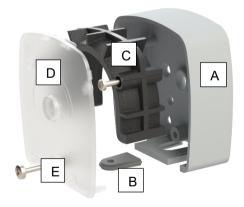
Chemical

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

Pump Block Assembly



- 1. Slide the drain plug (B) into the housing (A).
- 2. Attach the motor to the housing, either directly or through an enclosure, using 4 x M4 counter-sunk screws.
- 3. Press the journal wall (C) down, ensuring that the letter "T" is visible from the top.
- 4. Fit the two self-tapper screws using the M10 torq screwdriver; they should be hand-tightened only.
- 5. Fit the spinner assembly.
- 6. Fit the peristaltic tube; lubricate before fitting.
- 7. Place the cover (D); ensure the two clips are engaged in the pump block cover and then tighten the cover screw (E).
- 8. Mount the pump or enclosure in the vertical position.
 - ➤ The area should be dry (do <u>not</u> use in a wash down area).
 - The unit should be positioned about 1m from the chemical and not positioned above any electrical items/installations.
- 9. Attach the intake line (left side) and delivery line (right side) to the pump and fit hose clamps over both tubes not supplied.
- 10. If required, ensure that there is a filter on the end of the intake line not supplied.
- 11. This unit must be earthed.



Specification

Delivery rate	3.2 Bore tube: 100 ml/minute 4.6 Bore tube: 225 ml/minute 6.3 Bore tube: 350ml/minute	
Motor speed	100RPM	
Voltage	230V 50 Hz	
Power input	35W	
Dimensions	108.8mm x 81mm x 109mm (with mounting plate) 108.8mm x 81mm x 98mm (without mounting plate)	
Weight	1.5Kg	
Material in contact with media	Santoprene	
Hose Material	Polypropylene	

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 screw 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.
- 6. Pinch the centre of tube and push it between the roller and pump housing at the 12 o'clock position.
- 7. Fit the cover and secure using the pozi pan head screw.
- 8. 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.	Check that pump is connected to supply voltage.
	The supply is Switched OFF.	Switch the supply ON.
No output delivery	Pump is not running.	Connect the power to the pump.
	Inlet tube is not connected to the left-hand Spigot.	Connect the inlet (suction) tube to the left-hand spigot.
	Suction tube assembly is not properly inserted into chemical drum.	Insert the suction tube into the drum.
	Stiffener not fitted to the suction tube.	Fit a stiffener tube; this will help with keeping the suction tube to the bottom of the drum.
	Kinks in the suction and/or delivery tube.	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.	Replace the tube with correct material, size bore, spigot and shore hardness.
	Air getting inside the tube.	Check if the suction tube is fitted tight on the spigot and if necessary fit a hose clip.

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.



Parts Listing

The following spare parts are available to order separately:

ALP/101-SA625-ATS Peristaltic Tube	ALP/101-SI635-ATS Peristaltic Tube	
T Official Tubo	T SHOULING TUDS	
ALP/101-SA465-ATS Peristaltic Tube	ALP/101-SA325-ATS Peristaltic Tube	
ALP/100-230-100 AC Motor	ALP/203-C Pump block and cover	
	A TOTAL OIL	
ALP/102 Roller Assembly	ALP/115 Silicone grease	
	AMERICA Silicone Gorgan Gorgan Rowsking Providing Providing Frompliant Frompl	





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