





Safety Precautions

 **Warning:** PRODUCT USE LIMITATION. Not for use in patient connected applications; including but not limited to medical and dental use, nuclear or other high risk applications where failure of the system could reasonably be expected to cause a hazard. Customers are responsible to check suitability of pumped media with the pump. The manufacturer cannot be held responsible for any damage or loss as a result of the use of this pump.

 **Warning:** Tubing breakage may result in fluid being sprayed from the pump. Use appropriate measures to protect operator.

 **Warning:** Turn pump off before opening the pump, moving or installing tubing. Fingers or loose clothing could get caught in the drive.

 **Warning:** If this pump is used in a manner not described, the protection provided by this equipment may be impaired.

Introduction and general description

These pumps are designed to provide fluid transfer for a wide range of dosing and fluid transfer applications.

The tube in a peristaltic pump is a wearing part and is not covered by warranty and the tube life expectancy should be taken into consideration when assessing the pump's suitability for use.

The pump is designed to either be on/off fixed flow operation in manual mode (F option) or variable speed control via the speed controller supplied (V option).

The pump operates on the peristaltic principle, limiting contact of the fluid to the tubing material and connectors.


Pump set up and installation

The peristaltic pump is supplied with tubing fitted ready for installation in your application. The pump is designed to be mounted horizontally with the inlet and outlet connectors pointing downwards, other orientations are not recommended.

The pump should rotate in a clockwise (cw) direction. Connect the suction side to the left tubing spigot and the discharge side to the right (when looking at the pump head face on).

Connect the pump as per the wiring information provided. It is essential you verify the voltage and current specifications are compatible with the power requirements of the pump.

Tubing replacement

 **DANGER: Always** turn the pump off and disconnect from the power source before attempting to change the peristaltic tubing. Remove retaining screws and lift off front cover of the pump head to access the pump tubing. Remove tubing carefully from the pump housing and pull old tube away from connectors (if cutting the tube to free it, ensure that the barbs are not damaged as this could cause leakage when they are re-fitted). To install new tubing fit over connectors making sure the tube bottoms out on the end stop on the connector and ensuring the flats on the connector are lined up so that the tube will not twist when fitted into the pump. Using HT5 lubricant, spread a film of lubricant over the working surfaces of the tube (this will help to refit the new tube and will increase tube life). Locate the connectors into the lower pump body and carefully feed the tube around the rollers, taking extra care to squeeze the tube between the roller and pump body until it is in the centre of the pump track. Then reposition the pump cover and pull down to compress the tube and in to meet the pump housing. take extra care not to nip the tube between the two pump housings as this can cause premature tube failure. Refit the screws and then check pump operation.

Cleaning

Always disconnect the pump from power supply before cleaning.

Pump housing is composed of Nylon. Clean with a damp cloth only. Do not immerse pump in liquid or use excessive liquid.

The Williamson Manufacturing Company Ltd provides no warranty on usage of pumps. We recommend that life tests be carried out prior to use. This information is given in good faith and believed to be correct at the time of publishing. The Williamson Manufacturing Company Ltd cannot accept responsibility for inaccuracy or any errors contained herein. Copyright the Williamson Manufacturing Company Ltd 2008.

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Troubleshooting

PROBLEM	POSSIBLE SOLUTION
Pump does not run	Verify power is turned on at source
	Verify power cord is connected properly
Reduced or complete loss of flow when pump is running	Ensure suction tube is not blocked or restricted
	Ensure tube is securely fitted on suction spigot
	Remove front cover and check peristaltic tube is intact (see tubing replacement section)
Fluid leakage around pump housing	Ensure suction & discharge tubes are securely fitted to inlet/outlet spigots
	Ensure no leaks on suction/discharge tubes
	Remove front cover and check peristaltic tube is intact (see tubing replacement section)

If solutions do not work & for all other problems contact Williamson Manufacturing company Ltd or your local distributor.

Spare parts

Description	Part Number	Description	Part Number
Rotor inc. rollers (fixed) Standard	400-ROTOR	12mm inlet/outlet spigot (singles) 2 req'd per pump	400-SPIGOT-120
Rotor inc. rollers (sprung) Standard	400-ROTOR-S	Sachet of recommended tube lubricant	HT5-5ML

Tube Material	Bore Size	Cut Length Part Number	1 Metre length Part number
Silicone	10mm	400-TUBE-100	400-TUBE-100/1M
	13mm	400-TUBE-130	400-TUBE-130/1M
Santoprene	10mm	401-TUBE-100	401-TUBE-100/1M
	13mm	401-TUBE-130	401-TUBE-130/1M

For pump specifications refer to: 400 series pump with induction motor specification sheet.

Warranty and product returns

Williamson manufacturing Co Ltd warrants to the original purchaser that the product will be free from defects in workmanship for a period of one year. If warranty or adjustment is necessary, please contact us or your local distributor to discuss. We will at our discretion, arrange to either correct the problem, replace the unit at no charge, or refund the original purchase price. Repairs made necessary by customer abuse, or misuse, accident or improper maintenance are not covered by this warranty and all expenses related to those repairs will be invoiced to the customer. The tube is specifically excluded from this warranty.

The aforementioned warranty is exclusive and in lieu of all other warranties express or implied, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

Williamson Manufacturing Company limited will not be liable under any circumstances for any consequential or incidental damages whether such claim is based on warranty or any other legal theory.

No product should be returned without first contacting Williamson Manufacturing Co Ltd or your local distributor to obtain a return authorisation and instructions for the method of return. For your protection, items being returned must be clean and drained of fluid, carefully packaged to prevent damage in shipment and insured against possible damage or loss.

Williamson Manufacturing Co Ltd cannot be held responsible for damage or loss resulting from shipping.

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