

Unit 1, 23 Richland Avenue Coopers Plains Q 4108 PO Box 71 Coopers Plains Q 4108



T: +617 3274 4750 **F:** +617 3274 4736 **W:** www.aquariustech.com.au

Peristaltic Pumps Trouble Shooting

Problem	Possible Causes	Solution	Comments
1. Pump Heats Up	1.a. The pump is overworked	Choose a larger pump,	
		Decrease the pump duty	
2. Pump Stops Working	2.a.Injector is blocked	Check and Clean the Injectors	Monthly for Hypo and biocide pumps Each 3 month for acid and inhibitor pumps
	2.b. The duty of pump is too low	Watch the pump for 2 minutes. If it works for short periods of time, the pump may be OK	Example: If the pump is 1 lit/hr and you want to inject 50 ml/hr then the pump will work only 3sec per each minute.
	2.c. There is no electricity current in the pump	Check the relay: If relay is off, no problem with the pump If the relay is on, it must be a triac problem from controller	To check the triac, swap the pumps' power lead and watch the pump performance. The faulty pump won't work when relay is on. The triac [*] problem can be solved by repairing the panel (X_PAN or new Panel)
	2.d. The Pump is electrically burnt	The burnt pump should be exchanged	This should be confirmed by an electrician
3. Pump Rattles inside	Starting capacitor inside the housing is Loose	This is not a problem	The pump rattles only if it is shaken. Don't shake the pump!
4. Rotor not moving	4.a.Low Pump Duty	See to Solution for 2.b.	
	4.b.Blocked Injector	See to Solution for 2.a.	
	4.c.Stripped Gear	Pumps needs to be exchanged	This problem originates from Blocked Injector which causes back pressures on the pump and relocates the gear shafts
5. The Squeeze tube is damaged frequently	5.a. The squeeze tube is not installed properly or it is relocated	Change the Squeeze tube and make sure it is fitted properly	
	5.b. Roller Block is Damaged	Change the Roller Block	
	5.c. Rollers of the Roller Block are stuck	Add lubricant to rollers.	
6. Pump makes squeaky noise	The roller block contacts the cover	Add some grease or lubricant under the cover	
7. Pump makes grinding noise	 -high back pressure on the shaft -pump over working -relocated gear shaft -not adequate gears Contact 	Give 15-30 minutes rest to the pump. If the problem persists change the pump	
8. Pump's continually running	Pumps is too small	Choose a bigger pump	
	Setting is wrong	Check and adjust the setting (if needed)	
	The triac is damaged (How to check: look at the comments)	Controller panel needs to be repaired to replace the triac	To make sure it is a triac problem, swap the pumps' power lead and compare the pump performances when relay is on/off. The triac problem can be resolved by repairing the panel (X_PAN or new Panel)
9. pump is heating up and emits an electrical buzzing sound despite the relay being off	Partial voltage from the triac into the pump, not sufficient to run the pump but enough to emit a sound and heat the motor	Controller panel needs to be repaired to replace the triac	To make sure it is a triac problem, swap the pumps' power leads and check if the problem persists with the new pump.

* The all traics of Aquarius new Panels and X_PANS have been reinforced and equipped with mode device for double protection. Please report the other problems.