



AQUAVIC

ABN 23 093 121 076



Installing & Running your ION-01 or “New Millennium Series 1” Ioniser

This product is not intended to be installed in classified zones which require IP ratings. It is not intended for use by people including children with reduced physical sensory or mental capabilities or lack of experience or knowledge unless they have been given supervision or instruction concerning its use by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance. If the supply cord is damaged it must be replaced by the manufacturer its service agent, or a similarly qualified person.

Foreword:

In drafting these instructions we have assumed that the installer has a good all round working knowledge of pumps, filters and piping systems, and is comfortable with the use of PVC adhesives and basic hand tools.

Installing the control module:

This unit is rated for **indoor use only** and must be installed in a plant room, garage, workshop, or similarly protected environment by a licensed electrician or suitably qualified tradesperson. Where there is no alternative but to install it outdoors, it must be fully enclosed in a weatherproof electrical enclosure. Contact **Aquavic** for details of prices and availability of approved products.

For ease of monitoring, we recommend that it be mounted on a vertical surface 1500 mm from the floor and in close proximity to a timer-controlled double 230 VAC 10 Amp GPO. In the event that the flowcell is beyond the reach of the standard ELV (electrode) cable, it may be extended by up to 10 metres by adding a length of twin-core conductor cable of equal or greater cross-sectional area. A miniature junction box or similar is ideal for this purpose and a little attention to tidying up loose cabling with cable ties will finish the job nicely.

For Aquavic C- 40M & C-50M Universal Flowcells

These units can be installed in the “return to pool” line (preferred) the pump’s suction line, or between the pump and the filter. Note though, that the latter is the highest-pressure leg in the system and should only be selected if the other two are not suitable.

Ideally, the Flowcell should be located in a **vertical** or **inclined** section of pipework as this will ensure total flooding of the electrode chamber at all times. If this is not possible, care should be taken to position the Flowcell so that both electrodes are completely submerged when the pump is running. Having decided on a location, carefully measure and remove a suitable length of pipework, deburr, and install the Flowcell using plumber’s PVC primer and “P” rated solvent cement. Allow 24 hours to cure before running the pump.

And finally:

It is also important that both the pump and the ioniser run together. If the system is run via a single GPO (see note above) it may be necessary to use a double adaptor. Now run the LV lead to the flowcell and connect to the electrode terminals. It doesn’t matter which lead goes on which terminal.

* ***Under no circumstances should the 240 VAC power lead be extended. Avoid the use of extension leads.***

Important note: For best results, an ionised pool requires the assistance of a “**Starter.**” This is a 250 mL bottle of a copper-based algaecide. Measure out **85 mL** for every **10,000 litres**, mix in a bucket of water and add directly to all areas of the swimming pool or spa. For example, a pool of 20,000 litres requires 170 mL of starter” (ie $2 \times 85 = 170$ mL). If your pool is greater than 30,000 litres, add the whole contents of the bottle to the pool.

Getting Started:

Having checked that all connections are secure, switch on the pump. Allow plenty of time for the system to prime and then check for leaks. Assuming that all is in order, we now turn our attention to the **LED** display.

The green “**Power**” light simply indicates that there is a 240 VAC supply to the ioniser. It will be “ON”.

The two red “**Polarity**” lights confirm that the 12 VDC current supplied to both electrodes is switching polarity regularly to equalise the “*burn rate*” of both. At any given time, there will only be one red light on - never will both be on together. Switching rate is around 2 - 3 minutes for each cycle, but it may vary slightly according to the conductivity of the water.

The amber “**Ionising**” light is most important as it confirms that both electrodes are “burning.” Depending on the conductivity of the water, this light may not be on at all, or it may be very bright, or somewhere in between. Somewhere in between is perfect. If it is not on (conductivity too low) add several kilos of ordinary pool salt to the water, allow an hour or so for it to dissolve completely and check the light again. Repeat the process until the light begins to glow. For spas and water features, allow an hour. And for swimming pools, it may take a day or so.

If the light is very bright, the water is highly conductive indicating that the water has a high mineral content. If so, consideration should be given to dumping the water and refilling with fresh as there is the possibility of a blown fuse. If the water is over five years old (swimming pools) we recommend dumping and refilling anyway. If at any time, the green “**Power**” light is the only light visible, it’s possible that a short circuit condition has occurred and the internal fuse which protects the low voltage (LV) circuit has blown. The most probable causes are highly conductive water (see above) or the two terminal leads have touched whilst the power was on.

Caution !

There are no user-serviceable parts inside the control module. Access is by removal of the front panel but as this may expose a potentially lethal voltage, this should only be undertaken by suitably qualified personnel.

To do otherwise will also void the manufacturer’s warranty.

And now for the Water Chemistry:

Refer here to the water chemistry instructions enclosed.

The old saying: “***If in doubt – don’t***” certainly holds true for water chemistry.

If unsure about what to do with your chemistry at any time, contact **AQUAVIC**.

Phone / Fax: +61 3 9723 4223 www.aquavic.com.au email: aquavic@optusnet.com.au
