



AQUAVIC

ABN 23 093 121 076



Installing the *Aqua Soleil* swimming pools ioniser:

In drafting these instructions we have assumed that the installer has a good all round working knowledge of basic electronics, pumps, filters, piping, fountains and water features. This unit is designed for **indoor use** and must be installed in a protected environment by a suitably qualified tradesperson or competent handyman. Where there is no alternative but to install it outdoors, it must be fully enclosed in a weather-proof enclosure. Damage resulting from exposure to the elements will void your warranty.

For ease of programming and monitoring, we recommend that it be mounted 1500 mm from the floor and as near as is practical to the flowcell. Run the electrodes lead from to the control unit to the flowcell and connect to the electrode terminals. In the event that the flowcell is beyond the reach of the standard electrode cable supplied, it may be extended by up to 10 metres by adding a length of twin-core “figure 8” cable of equal or greater cross-sectional area.

Aquavic Flowcell:

To avoid the possibility of air-trapping, this unit must be installed either vertically, or inclined, in the return to pool line. Having decided on a location, 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:

Because an ioniser must not run on “dead water” it is important to ensure that the ioniser runs only when the pump is running. To guarantee the all-important interlock between the two, the ioniser’s power pack should be plugged into the same power outlet as the pump.

If this is not possible, the ioniser’s time-clock must be synchronised with the pump run times. Running the ioniser on “dead water” will cause the electrodes to become fouled and fail well before their usual 3 to 4 years life span.

Getting Started:

It has been assumed that the installer has already programmed the ioniser's start/stop times. (See time clock operating instructions attached.) For a new installation it is suggested that the ioniser's time clock be set run to the following formula: *1.0 hour per 1000 litres per week*. But the absolute arbiter of ioniser run time is the copper levels in the water. It may therefore be necessary to increase or decrease run times to maintain the optimum level @ 0.5 mg/L Cu⁺⁺

Check that all connections are secure and switch on the pump. Allow plenty of time for the system to prime and then check for leaks. Then turn on the ioniser control unit. It may be necessary to use the timer's "manual over-ride" function for this. Assuming that all is in order we now turn our attention to the **LED** display.

Power: The green "**Power**" light confirms that there is power to the unit.

Polarity: The two red "**Polarity**" lights confirm the 12 VDC current supplied to the flowcell. At any given time, there will only be one light on - never will both be on together. The electrodes switch polarity regularly to equalise the "*burn rate*" of both, and the switching rate is usually around 3.0 minutes for each cycle, but it may vary slightly according to the conductivity of the water.

Ionising: The amber "**Ionising**" light is most important as it confirms that both electrodes are "burning" and 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 is mid-yellow.

If the light is very bright, the water is highly conductive indicating that the water has a high TDS. If so, consideration should be given to dumping or diluting the water and refilling with fresh. If at any time, the green "**Power**" light is the only light visible, it's possible that an internal fault has occurred and the LV fuse has blown.

Note that the "PUMP" outlet applies only if used on water features or fountains.

Caution !

There are no user-serviceable parts inside the control module. Access is by removal of the front panel. This must only be undertaken by Aquavic or our accredited agent. Removal by unauthorised personnel will void the manufacturer's warranty.

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TM-6331H--1~4
TM-619--1~4

TM-6331--1~4 **TM-6331AB--1~2**
TM-619H--1~4 **TM-619L--1~4**



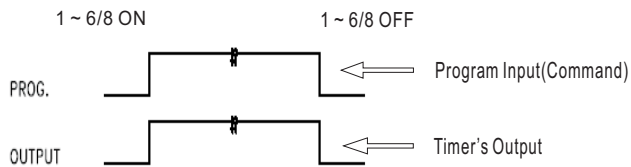
TM-6331



TM-619

Control Logic (Lithium CR 2032 memory backup, replaceable)

This electronic 7-day timer is accurate to the minute, designed with Control-Logic by **6 or 8 ON/OFF(event) per day** Graphic description, as below:



Also, it provides 15-combination of Daily-Programs leads great convenience to users, in use of Timer on programming it to their demands to desired DAYS of WEEK.

1.	MO	TU	WE	TH	FR	SA	SU
2.	MO						
3.		TU					
4.			WE				
5.				TH			
6.					FR		
7.						SA	
8.							SU
9.	MO	TU	WE	TH	FR	SA	SU
11.	MO	TU	WE	TH	FR	SA	
12.	MO	TU	WE				
13.				TH	FR	SA	
14.	MO		WE		FR		
15.		TU		TH		SA	

Start to use Timer – Press **Ⓜ** key to reset Timer before using

A. RUBBER KEY's functional description

- TIMER** : Programs review & setting programs
- MANUAL** : To select "ON,AUTO or OFF"
- CLOCK** : To adjust current DAY and TIME
- Day** : To adjust day of week
- HOUR** : To adjust Hour
- MIN** : To adjust minute
- Ⓜ** : Reset Timer's setting
- LED** : To indicate ON/OFF status

B. To set CLOCK –

Press and hold **CLOCK** key and then press **DAY** key, **HOUR** key, **MIN** key respectively to adjust clock of Timer to current DATE, HOUR, MINUTE.

In 12-Hour-Format, **PM & AM** shall appear on LCD screen. In 24-Hour-Format LCD screen shall indicate 0:00 ~23:59

C. Starts to set programs into TIMER

- Press **TIMER** key. LCD screen shall show **1 ON - : - : -**
- Press **DAY** key to select any of 15-combination of Daily-Programs to your application demand. Continuing to press **DAY** key, LCD shall alternating indicate among 15-combinations.
- Press **HOUR** key, **MIN** key respectively to set desired HOUR and MINUTE for **1^{ON}**
- Press **TIMER** key again, after finished setting of **1^{ON}**, **1 OFF - : - : -** shall appear on LCD screen.
- Press **DAY** key to select any of 15-combination of Daily-Programs to your application demand. Continuing to press **DAY** key, LCD shall alternating indicate among 15-combinations.
- Press **HOUR** key, **MIN** key to set desired HOUR and MINUTE for **1^{OFF}**
- When finished setting **1^{OFF}**, Press **TIMER** key, **2 ON - : - : -** shall appear on LCD screen.
- Repeat procedure stated on 1 ~ 6 to complete rest of ON/OFF program-period(event)
1 ON - : - : - ⇌ **1 OFF - : - : -** ⇌ **2 OFF - : - : -** ○○○○ ○ **8 OFF - : - : -**
or just to the desired number of ON/OFF(event) setting for demand of practicable application.
1 ON - : - : - ⇌ **2 OFF - : - : -** ⇌ ○○○○ ○ **6 OFF - : - : -**
- When finished program-setting(event), press **CLOCK** key, Timer shall start to execute programs.

D. To review programs

Keep to press **TIMER** key, display on LCD screen shall alternating display among each of **6 or 8 ON/OFF**

E. How to use OVERRIDE functions

619-programming-mode Timer is designed 2 Override function, so as to widen its usage upon practicable application. Override function is **effective only** when Timer is running **under AUTO mode**.

Temporary-Override – Follow procedure below:

Condition-1 When Timer's output status is "ON" Pressing **MANUAL** key, to move indicator from "AUTO" to "OFF", Timer output shall turn to "OFF" status, programs overridden. Pressing **MANUAL** again to switch Timer status to "AUTO", Timer's output shall continue maintaining "OFF". Timer shall resume its automatic operation when next program(event) calls for "ON". (With next opposite set point).

Condition-2 When Timer's output status is "OFF" Pressing **MANUAL** key, to move indicator from "AUTO" to "ON", timer output shall turn to "ON" status, programs overridden. Pressing **MANUAL** again to switch Timer status to "AUTO", Timer's output shall continue maintaining "ON". Timer shall resume its automatic operation when next program(event) calls for "OF". (With next opposite set point)

Random-Start-Up Override – Press and hold **DAY** key and then press **MIN** key. There shall be a symbol **Ⓜ** shows on left corner of LCD screen, to indicate this Override in executing. When this Override is being executed, the original programs will be stopped, and once every 10 to 120 minutes Timers shall automatically turn its output to "ON" status. In practicable application which is applied to home-use, this Override function also called Anti-Burglar Override. Once again to press and hold **DAY** key, and then press **MIN** key shall terminate this Override.