



pHMate™

Installation Manual & Quick Guide



pHMate™

Premium pH Maintenance Solution

Congratulations! You are now the proud owner of the most advanced pH pool water control system available. Please read all information in this Manual carefully before installing or operating your pH Mate controller.

Packing information

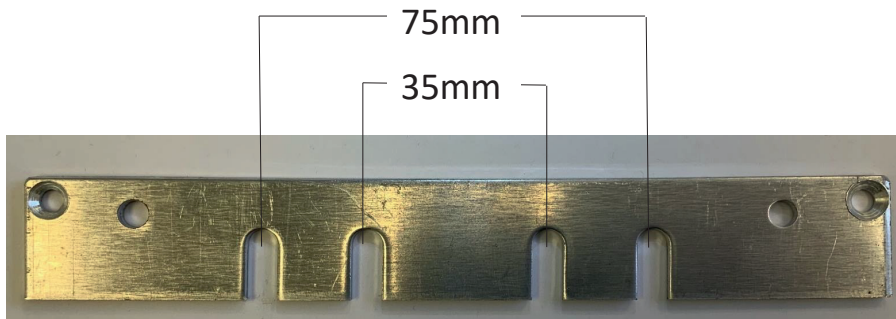
Included in the carton: Injector housing, Probe Housing, pH probe, pressure switch, drum filter and weight, clear PVC tubing, AC power adaptor, pH Mate Control System, screws and wall plugs.

Installation Instructions

1. Select a suitable location for the pH Mate. Avoid installing the unit over Power Points or other Equipment. It is usually a good idea to keep the pH Mate and acid as far away from other equipment as possible due to corrosive fumes. Corrosive atmospheres can be minimised by allowing only a very small breather area for the acid drum. If in an enclosed space the drum should be vented to the outside. Mount screws for hanging bracket of control unit on wall or post paying attention to correct spacing's as per illustration provided.
2. Refer Installation diagram for manifold location. Avoid high pressure areas (i.e. not between pump and filter). The Flow Switch /Injection Manifold can go prior to the cell if necessary.
3. Do Not Locate the Acid Drum Directly under the unit.
4. The pH Mate is designed to operate with full strength acid. It is advisable to dilute the acid. Please note if diluting it should "Always Be Acid to Water". We recommend 5 litres of acid to 15 litres of water.
5. Filtered suction point and drum weight. Drill a 10mm hole for the tube in the acid drum lid. If it is tight the drum lid should be left slightly loose to allow the drum to breathe. Measure the suction tubing, push it through disc label and then the drum lid, add the weight and then the filtered suction point. It is good idea to look at how deep the suction point will be to reach the base of the drum and make a mark on the tube just above the lid. Now put the suction point into the acid drum and put the lid on.
7. Now connect the other end of the tube measuring the appropriate length to the left hand input side of dose pump.
8. Connect new piece of tubing from right hand output side of dose pump to the injection manifold.
9. Operate the peristaltic pump to prime the line – go to the Menu Button and press till Manual Feed is displayed. Press OK to do a manual feed. Once feed line from acid drum to injection point is full, Press OK until you return to Main Screen. Installation is complete.

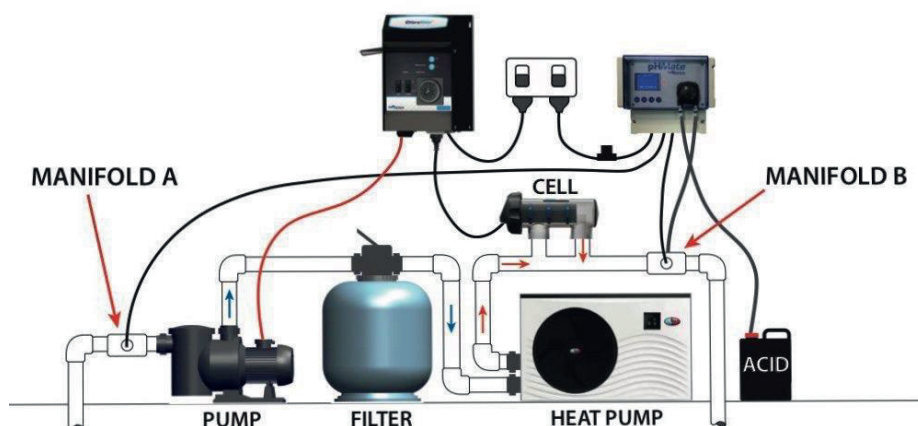
General Operation

Your swimming pools pH level should be maintained according to your desired pool professionals recommendations. Generally the pH level should be maintained between 6.8 and 7.2ppm for fibreglass surface types and 7.4 to 7.8ppm for concrete/plaster. Your pool water should be maintained according to industry standards with regards to chlorine, stabiliser and Total Alkalinity levels. Speak with your desired pool professional for further information.



*Picture not to scale. Use as a guide only. Measurements are accurate to centre of slots where screw heads should be positioned and mounted using the appropriate hardware for the wall surface type.

pH Mate™ Installation Diagram



Manifold A – Probe

NOTE: MUST BE FITTED SO PROBE IS IN HORIZONTAL POSITION

Manifold B – Flow Switch & Injection Point

NOTE: MUST BE FITTED SO FLOW SWITCH IS IN CORRECT DIRECTION OF WATER FLOW.

pH Mate Control Unit

Connect PVC clear tubing from acid drum to peristaltic pump inlet, connect another piece of clear tubing from peristaltic pump outlet to injection point. Connect Transformer into 2 pin socket (any way), connect probe into 6 pin socket, connect pressure switch into 4 pin socket. Plug Transformer into wall power outlet.

Please note: ACID INJECTION POINT MUST BE AFTER THE HEAT PUMP AND CHLORINATOR CELL

WHAT'S IN THE BOX:

- ☐ 1 x pHMate unit
- ☐ 1 x Power Transformer
- ☐ 1 x Calibrated Probe
- ☐ 1 x Flow Switch
- ☐ 1 x Manifold for Flow switch / Injection point
- ☐ 1 x Manifold for Probe
- ☐ 1 x Drum Filter
- ☐ 1 x Hose Weight
- ☐ 1 x Wall Plug Kit (2 x screws / wall plugs)
- ☐ 1 x 3m Commercial Grade Tubing
- ☐ 1 x Acid Label / Disc

QUICK CONTROL & OPERATION GUIDE



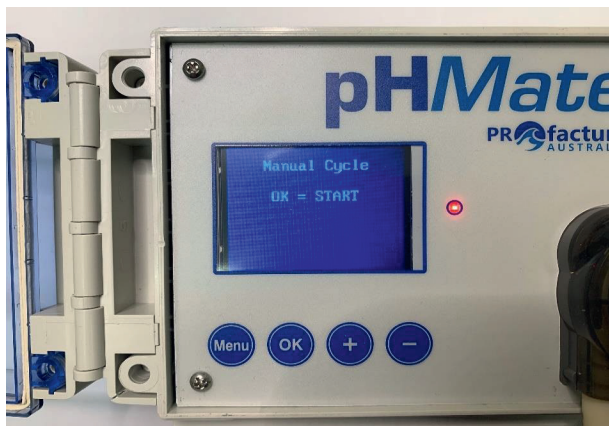
1. MAIN SCREEN

The main screen displays the current pH of the pool as well as the set point and next dose amount display. The "+" and "-" key are used to change the set point for the pool pH level to be maintained at and can be set in a range from 6.8 to 8.2. Once a new set point is finalized press "OK" to save that value. The "Menu" key will take you to next menu which is "Buffer Added".



2. BUFFER ADDED SCREEN

When buffer is added to the pool it is desirable for the system to sleep so it does not try to feed acid until the buffer solution has had time to absorb. The default sleep is 6 hours but you can use "+" and "-" keys to change. Pressing "OK" will start the sleep count down which if pressed again while in sleep mode will cancel the sleep mode as per prompt on screen. The "Menu" key will take you to next menu which is manual cycle.



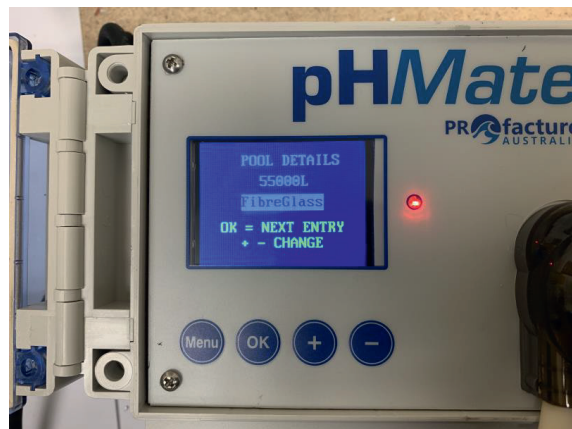
3. MANUAL CYCLE SCREEN

The manual cycle screen is used to manually run the peristaltic pump by pressing the "OK" button. It is most used when a new acid drum is installed and you need to prime the tube. Once running the mode is exited by again pressing "OK" as per the cancel message on screen. The "Menu" key will take you to next menu which is "Time set".



4. TIME SET SCREEN

The time set screen is used to set the time and date. Pressing "OK" will move you through each entry as will be indicated by the colour inverting on the entry being changed. The "+" and "-" key will change the entry that has the inverted colour. Once set pressing "OK" will move you to next entry. After the year input being the last entry setting it will return back to normal mode. The "Menu" key will take you to next menu which is "Pool Size".



5. POOL SIZE SCREEN

The pool size can be set from 10,000L to 120,000L by using the "+" and "-" keys. The pool size will scale changes in the maximum dose limits and dose size per 5 minute cycle. This screen also allows you to select the type of pool surface but also allows the choice of Normal, Medium or High acid demand. Once selected the system will set its limits according to selection. Pressing OK will save any change. The "Menu" key will take you to next menu which is "TECH SETUP".



6. TECH SETUP SCREEN

This screen is used for fine calibration of the system of the last decimal place on the pH readout. It is not expected that users will use this screen unless directed to do so by a technician or for fault diagnosis. The "Menu" key will take you to next menu which is "Dose History".



7. DOSE HISTORY SCREEN

This is a display only screen with no editable features. It will display the complete unit dose history, the dose of acid in the last 24 hours and the dose of acid in the last hour. The "Menu" key will take you to next menu which is "Dose Limits".



8. DOSE LIMITS SCREEN

This is a display only screen with no editable features. It will display the dose limits your unit has. It will scale with the pool size selected and displayed so you know the maximum limits for your pool settings. The “Menu” key will take you to next menu which is “Tube Change”.



9. TUBE MAINTENANCE and CHANGE SCREEN

Every 3 Months there will be a Service Reminder refer the following link on YouTube <https://youtu.be/62gUfK-kfkMA> or Profacture.com.au for greasing instructions. Every 12 months you will be prompted on screen to change the tube. You can clear the warning by pressing ok but it will reappear each week unless the change is confirmed on this screen. So when you change the tube you simply move to this screen and press the “+” key which will record the date and start the 12 month cycle again. The “Menu” key will take you to next menu which is back to the “MAIN SCREEN”.

WARRANTY INFORMATION:

pH Mate Control System – 2 years

pH Mate Sensor Probe – 5 year pro-rata warranty (12 Months Full cover + 4 Years Pro-rata)

During the warranty period, when an authorised technician is requested to service your unit outside company premises, **a call - out fee will be charged to cover time travelling to and from the site and the cost of operating the vehicle.** This fee will not apply if the Unit is returned to the Distributor in your State for repairs.

If an authorised technician is required to service your Unit and it is found that such services are not covered by warranty, labour charges will apply.

Profacture Australia strives to reduce or eliminate any unnecessary expense by producing this Manual. We strongly suggest that the owner **read and absorb all information thoroughly.**

This warranty does not apply to commercial or semi-commercial installations, i.e. where the system runs more than an average of 8 hours per day over the year.

IMPORTANT: ALWAYS INSIST ON GENUINE PROFACTURE REPLACEMENT PARTS. If it is necessary to replace the sensor probe or peristaltic pump tubing beware of “look alikes”. Only Genuine Profacture parts are designed and warranted to operate with the pH Mate Control Unit.

SERIOUS DAMAGE MAY RESULT TO THE ELECTRONICS INSIDE THE UNIT IF NON GENUINE PARTS ARE USED AND WILL VOID WARRANTY.



