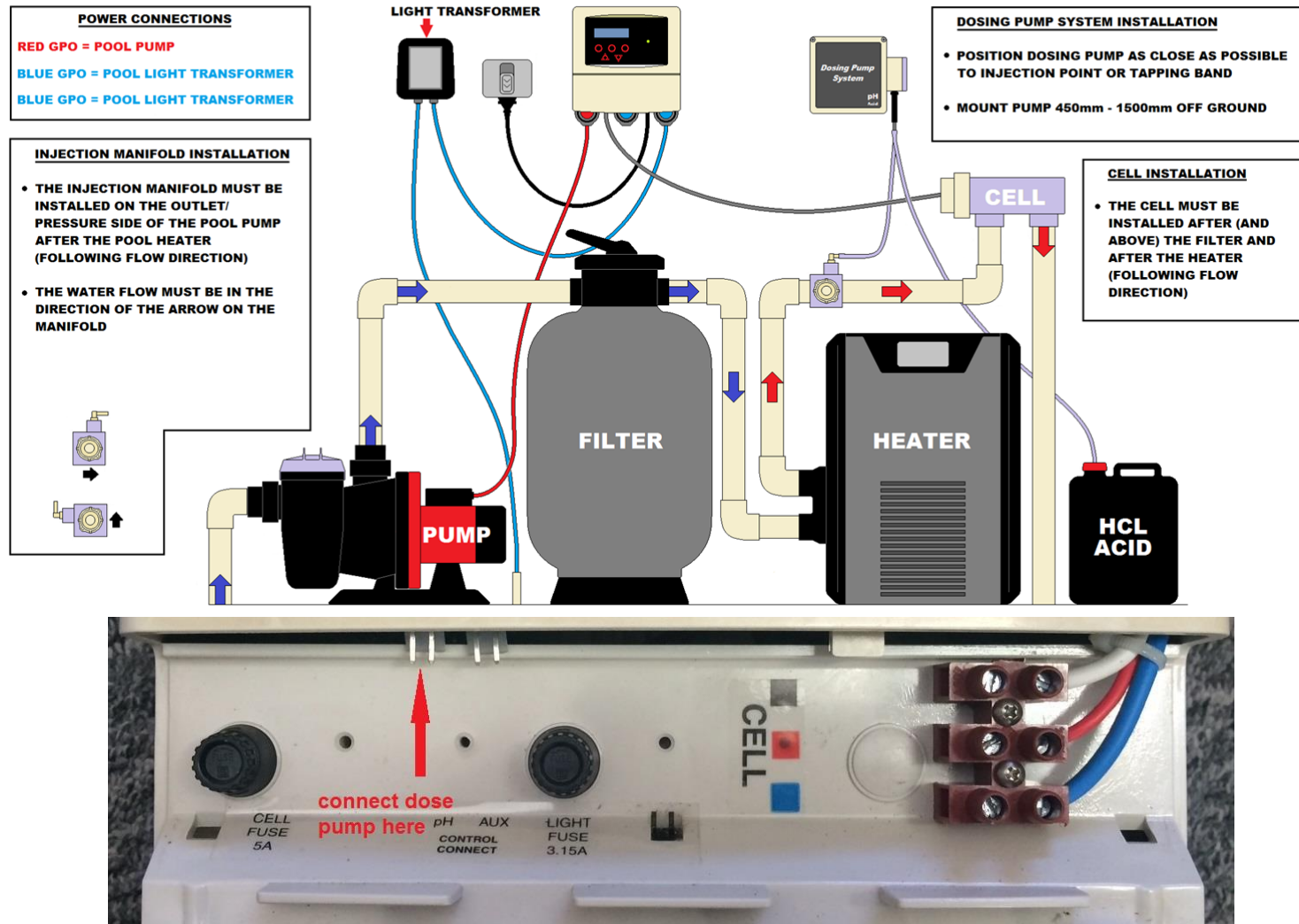


# SG Series pH Upgrade Installation Diagram



## pH Upgrade Kit - Installation

- 1 Determine where the pump will fit and attach it. The pump should not be placed above other equipment or power outlets. It is usually a good idea to keep the pump/acid away from everything else 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.
- 2 Decide where to fit the injection point. Avoid high pressure areas (ie not between pump and filter). It can go prior to the cell if necessary.
- 3 Decide where the acid drum will be (usually close the acid pump).
- 4 Get the acid tubing lengths measured out and fixed – do the pump outlet tube first. Use the flow arrows on the pump face. Once this has been done the SG Unit can be started.
- 5 When you connect the dose pump to the controller the unit will recognise it and may ask a question eg dilute acid? If full strength is to be used just answer no. If you are using dilute acid then obviously yes should be pressed.
- 6 Next step is to add the acid suction. There is a filtered suction point and drum weight. Drill a 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 the drum lid, add the weight and then the suction point. It is good idea to look at how deep the suction point will be in 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 to the dose pump – installation is complete at this point.
- 8 Try the pump to prime the line – go to the ACID Menu and do a manual feed. 100mL is probably enough. The pump may not start if the 2 minute start delay is still active. When running check the pump rotor direction to make sure it is correct otherwise water will be pumped into the acid drum.

## Optional +Acid Menu (for pH models)

As chlorine is produced the pool pH will go up slowly. This can be offset by small doses of acid added to the pool. An algorithm calculates the amount of acid that is needed per dose, and once the system has been adjusted to suit your pool, maintenance should be minimal. However, **it is vital that the system is adjusted to suit your pool and that pool pH is checked regularly.**

### Accessing the +ACID Menu

It is only possible to access the +ACID MENU when a dosing device is attached. Press ENT to access the SG Unit Menu system and use the Y/UP or N/DOWN buttons to scroll through the menu until the LCD Line1 reads “hh:mm +ACID MENU” – press ENT to select.

### Acid Dosing System – Turning it ON and OFF

The default setting is for the acid dosing system to be ON.

To turn the Acid Dosing System OFF, access the +ACID MENU as described above and Line 2 of the LCD will read “ADJUST Man DOSE?”. Press the N/DOWN button to answer “no”.

The LCD will now show “ADJUST AutoDOSE?” Press N/DOWN to answer “no” and the LCD will ask “DOSER OFF ? Y/N”. Press Y/UP if you wish to turn the Acid Dosing System off.

To turn the Acid Dosing System back on, access the +ACID MENU as described above and Line2 of the LCD will read “DOSER ON ? Y/N”. Press Y/UP to answer “yes” and the Acid Dosing System will be enabled.

### Adding Acid Manually – the ADJUST Man DOSE Sub-Menu

When you first ENTER the Acid Dosing System, the LCD will ask “ADJUST Man DOSE?”

This sub-menu allows you to adjust the amount of acid added as a manual (immediate) dose.

Adjustment is from 0mL (OFF) to 750mL in 15mL increments. This function is useful for priming acid lines after an acid drum change, and for adding a large dose of acid after adding buffer.

If you wish to make a manual dose, or adjust settings, press Y/UP to access this sub-menu.

Line1 of the LCD will display: “hh:mm Man DOSE”;

Line2 of the LCD will display: xxx mL”

Use the Y/UP and/or the N/DOWN buttons to adjust the amount of acid to be dosed manually. Press ENT to confirm and return to the Home Screen. Dosing should begin in approximately 5 seconds.

### Automatically Dose Acid – the ADJUST AutoDOSE Sub-MENU

*Note: fibreglass and liner pools are unlikely to need to need adjustment of auto dose amounts.*

This sub-menu allows you to adjust the amount of acid added as an automatic dose. Adjustment from 15mL to 300mL/dose in 15mL increments.

Press Y/UP when Line 2 of the LCD asks “ADJUST Auto DOSE?” to enter this sub-menu.

Line1 of the LCD will display: “hh:mm Man DOSE”;

Line2 of the LCD will display: xxx mL”

Use the Y/UP and/or the N/DOWN buttons to adjust the amount of acid to be dosed automatically The value will be used by the algorithm to determine how much acid and when to add it automatically.

Press ENT to confirm and return to the Home Screen and normal operation.