

WATERMAID PTY LTD

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INSTRUCTIONS FOR WATERMAID® CELLS

1. INSTALLATION

The WATERMAID® Cell must be installed correctly, as per the model-relevant diagram, which is given in the table below. Incorrect installation may pose a danger, damage the unit and void warranty.

Model	QT300	QT400	QT100	XT300	XT400	EZ300	VTR300
Diagram	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2	3	3

The QT and XT Cells may be installed either horizontally or vertically, so long as a gas trap is incorporated into the pipework (refer to diagrams 1 and 2). The EZ300 and VTR300 Cells must be installed vertically. **Position the 'sensing tang' at the highest point.**

2. CONNECTING THE CELL TO THE POWER SUPPLY

- » Connect the coloured Cell wires inside the black junction box as follows:
- » The brass screws must be screwed tight.
- » Be sure to screw down on the metal terminals, not on the coloured insulation.

RED or BROWN « TO » RED or BROWN
BLACK or BLUE « TO » BLACK or BLUE
WHITE « TO » WHITE

3. CLEANING THE CELL

- i) Turn OFF the power to the WATERMAID® chlorinator and pump.
- ii) Remove the WATERMAID® Cell from the pipe work.
 - » For QT and XT Cells, unscrew the barrel nut at either end. (N.B. The bottom barrel nut will unscrew clockwise while the top will unscrew anti-clockwise). Then block one end using the spare cleaning cap and barrel nut (provided).
 - » For VTR300 Cells, unscrew the barrel nut at the bottom of the Cell.
 - » For EZ300 Cells, if the mesh electrode is clean, then separate the electrodes by pulling the brass plug out of its socket, unscrewing the top barrel nut anticlockwise and lifting the centre electrode out. The deposit on centre electrode may be wiped away with a rag and/or hosed off with a jet of water [proceed to step (iv)]. If both the mesh and centre electrode contain deposit, then remove the entire Cell by unscrewing the barrel nut at the bottom of the Cell. Then turn the EZ300 Cell upside down and rest inside a bucket.

DO NOT ATTEMPT TO CLEAN THE MESH ELECTRODE BY ABRASION OR HIT THE CELL CASING WITH ANY INSTRUMENTS. DAMAGE MAY RESULT AND VOID WARRANTY.

- iii) A dilute acid solution prepared according the following procedure may be used. Alternatively, a phosphate-free pre-mixed Cell-cleaning solution from a pool shop may be used.

In a separate container (i.e. NOT in the Cell), add 8 - 10 parts of warm-to-hot (NOT boiling) water. Then add 1 part hydrochloric acid to the water. About 1000mL of water with 100mL hydrochloric acid should be adequate. Stir the mixture with a stake of wood.

Pour the acid-water solution into the Cell. If there is no cleaning cap and barrel nut for the QT or XT Cells, the whole Cell may be submersed along with a small portion of the grey cord (which is double insulated).

Allow the solution to stand until the effervescing stops (which can take several hours if there is a lot of deposit). If the deposit is stubborn, step (iii) may need to be repeated using a new solution.

- iv) **Check that the small metal tang (located at the top on the inside of the Cell) is clean.** To clean: wipe with a rag.
- v) Rinse the Cell including the electrodes, then return to the pipe work ensuring not to overtighten the barrel unions.

IMPORTANT: It is strongly recommended that 25Kg per year of Magnesium Chloride be added to the pool. It will ensure any build-up remains soft, and thus easily removed. All 25Kgs may be added at the one time, to the deep end of the pool. It may also prolong the time interval between manual cleaning.

AVOID the over use of Hydrochloric Acid for pH balancing. In alkaline surfaced pools, it can contribute to excessive build up on the Cell electrodes (alkaline pool surfaces include Marblesheen, Quartzon, Pebblecrete and Tiled). Use pH Buffer (Sodium Bicarbonate) instead.

DO NOT ADD ANY PRODUCTS CONTAINING CALCIUM TO THE POOL. THIS WILL RESULT IN BUILD UP ON YOUR ELECTRODES AND REQUIRE CLEANING. Products containing Calcium include Granular Chlorine & chemicals for hardness (Calcium Carbonate).

DIAGRAM 1: VERTICAL INSTALLATION FOR QT & XT CELLS

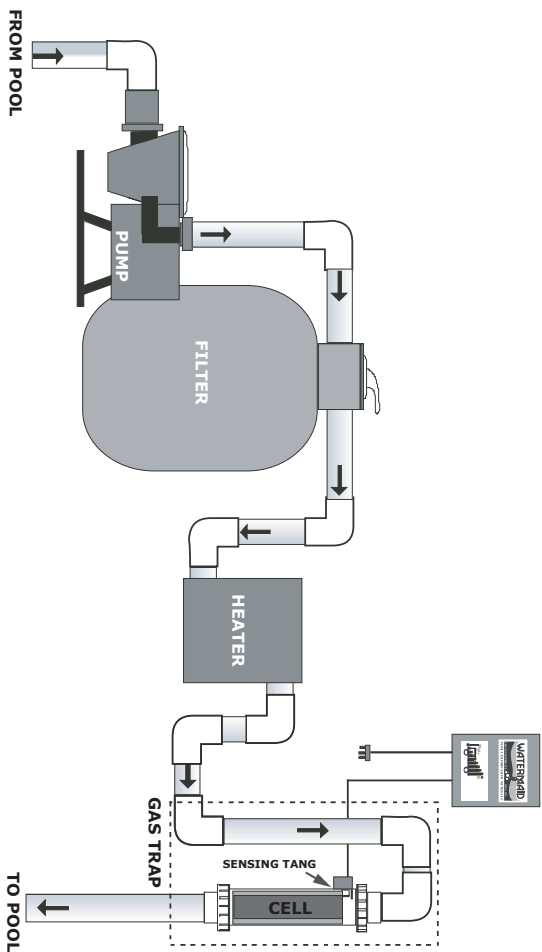


DIAGRAM 2: HORIZONTAL INSTALLATION FOR QT & XT CELLS

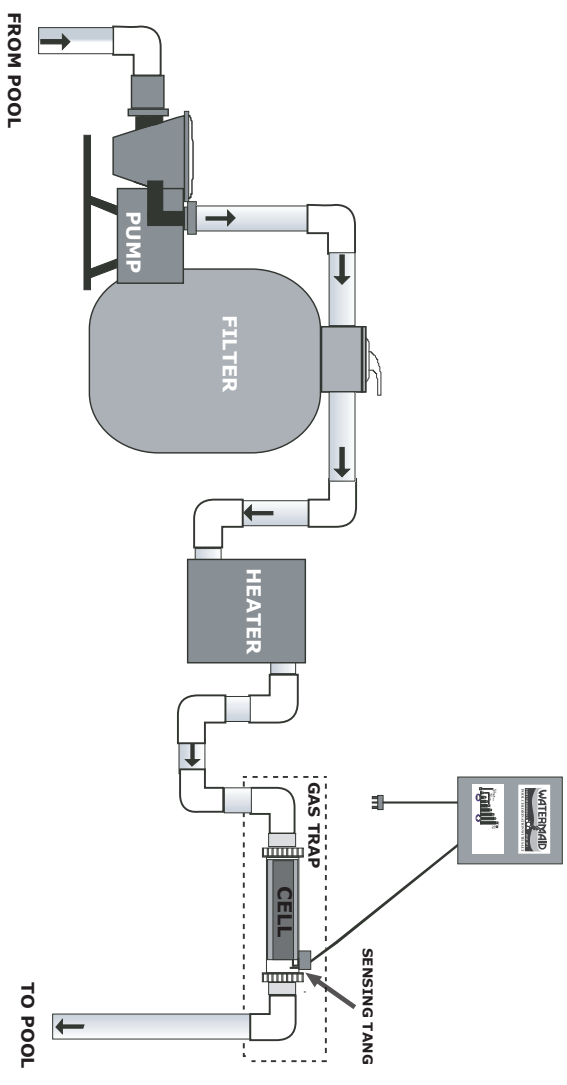
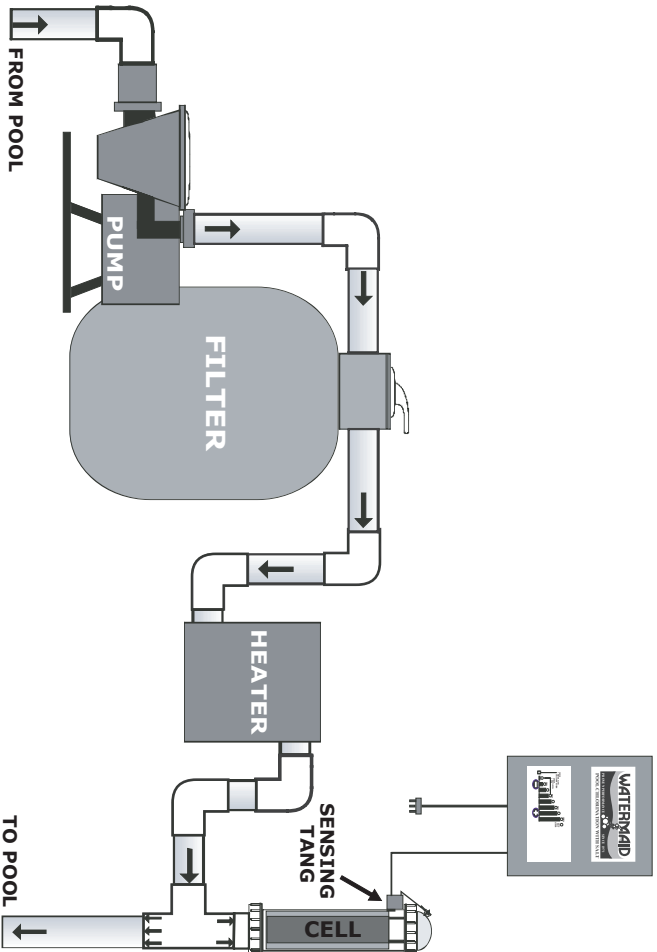


DIAGRAM 3: VERTICAL INSTALLATION FOR EZ & VTR CELLS



IMPORTANT:

* For QT and XT Cells, a GAS TRAP must be installed to prevent the accumulation of hydrogen gas in the filter, if the pump ever fails. EZ300 and VTR300 Cells incorporate their own gas trap in their vertical design.

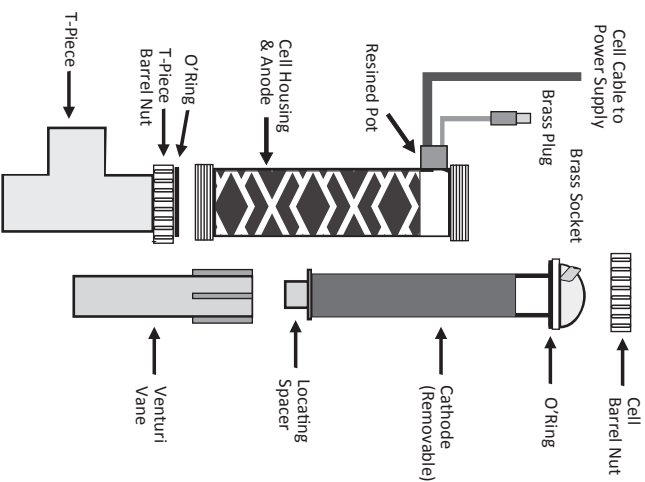
* ALL THE WATER FROM THE FILTER MUST FLOW THROUGH THE CELL before any diversions or breakouts to devices such as dual outlets, spa lines and pressure type cleaners.

* The Cell must be installed AFTER any heater. Do NOT install the Cell too close to the heater or distortion of the Cell casing may occur.

* Use TYPE P PRESSURE SOLVENT CEMENT (glue).

* Ensure the sensing tang is positioned at the HIGHEST POINT.

EZ300 PARTS VIEW



ASSEMBLY:

1. Insert Venturi Vane into T-piece.
2. Align bottom of Cell Housing with top of T-piece and screw Barrel Nut tight (ensure O'Ring is in place).
3. Insert Cathode into Cell Housing and position Locating Spacer into Venturi Vane.
4. Place Cell Barrel Nut over dome top of Cell Cathode. Position Brass Socket above Resined Pot and screw Cell Barrel Nut tight.
5. Insert Brass Plug into Brass Socket.