



## INSTALLATION INSTRUCTIONS

### STEP 1: PLUMBING INSTALLATION

Plumber to install a water supply line along the back of the battery charger racks (Figure 1).



Figure 1. Plumbing line with take off points for WaterGenius

Take off points (Figure 2) to be installed along the water supply line at the locations of the WaterGenius units. The Inlet Hose of the WaterGenius will connect to the blue 10mm barb.

Items required (Note: these items are available separately from Battery Technologies and are not included as standard with WaterGenius purchase):

- White Faucet Tee 20mm x 3/4" Female BSP
- Blue 3/4" Male BSP x 10mm barb Nylon Hose Tail



Figure 2a. White Faucet Tee and Blue Hose Tail

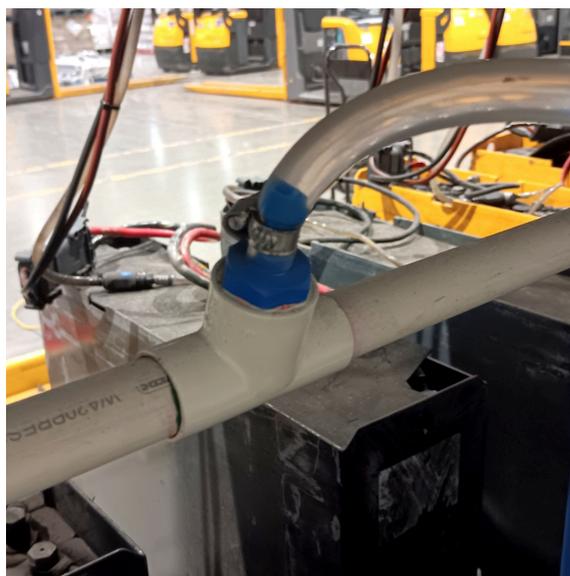


Figure 2b. Position the take off points at the WaterGenius locations

Install a Pressure Reducing Valve and Gauge upstream of the WaterGenius take off points.



**Back the Pressure Reducing Valve adjustment screw all the way off to lower the water pressure to its minimum BEFORE turning the water on as town water pressure is too high for the WaterGenius system**

Later, when water is turned on, set the valve adjustment screw so water pressure supplied to the WaterGenius units shows 15 PSI (100 kPa) on the Gauge.

Items required (Note: these items are available separately from Battery Technologies and are not included as standard with WaterGenius purchase):

- CALEFFI 533555 Inline 3/4" 20mm Pressure Reducing Valve (100 to 600 kPa adjustable)
- Dura Pressure Gauge Dry 63mm BE 800kPa (or similar)

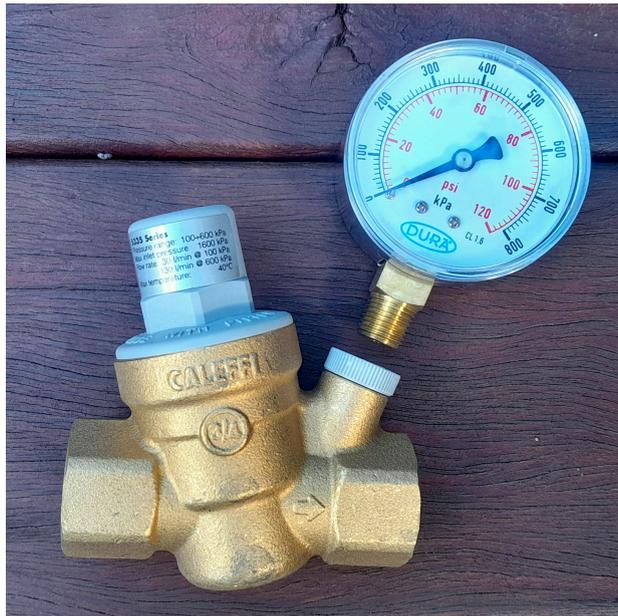


Figure 3. Pressure Reducing Valve and Gauge

## STEP 2: WATERGENIUS CHASSIS MOUNTING

Mount the WaterGenius near the Battery Charger, either on the front face of the Battery Charger itself (Figure 4) or onto the Battery Charger Racking (Figure 5).



Figure 4. WaterGenius mounted to front face of Battery Charger

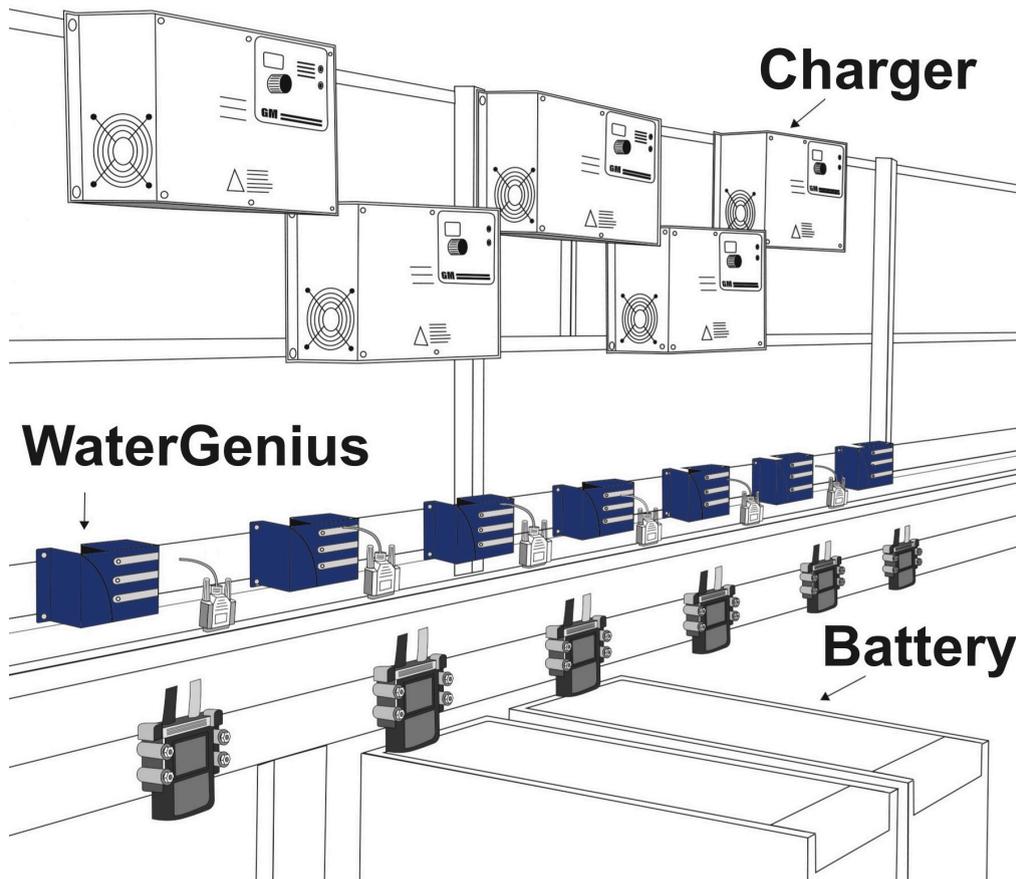


Figure 5. Water Genius mounted to Battery Charger Racking

### STEP 3: WATER INLET & OUTLET CONNECTION

Identify the Water Inlet (includes inline filter) and Water Outlet (includes female coupler).

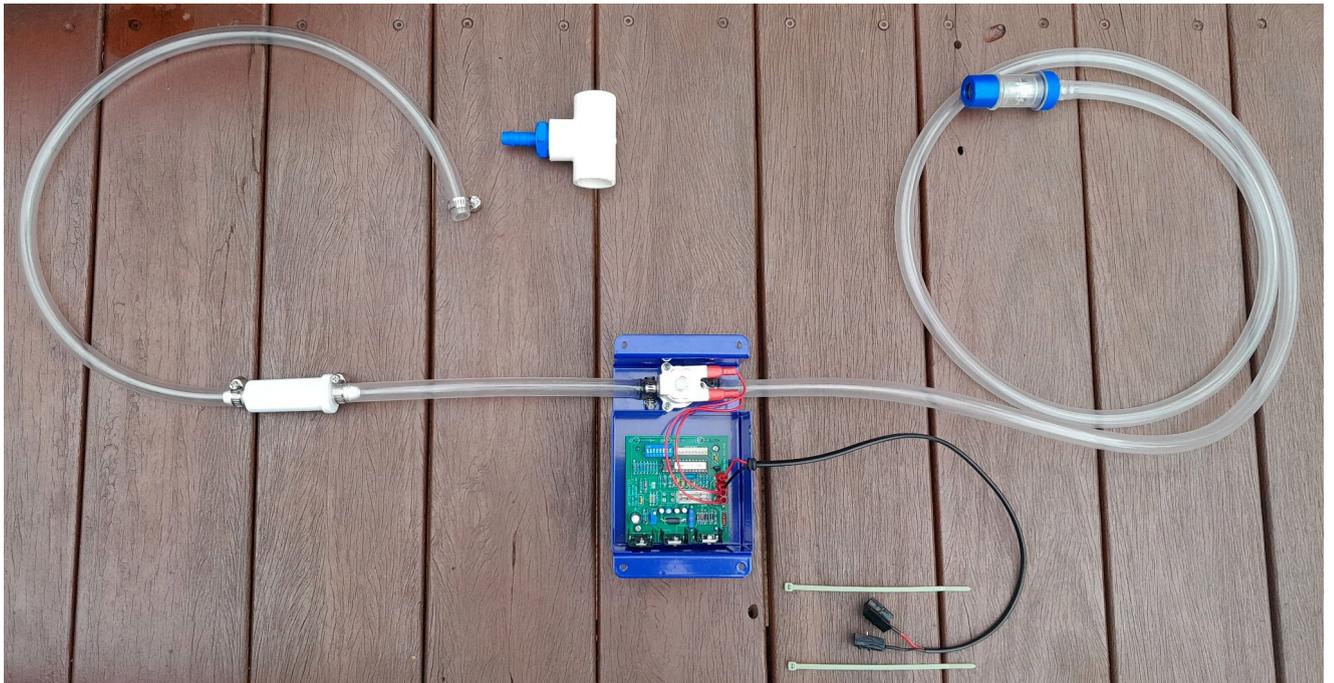


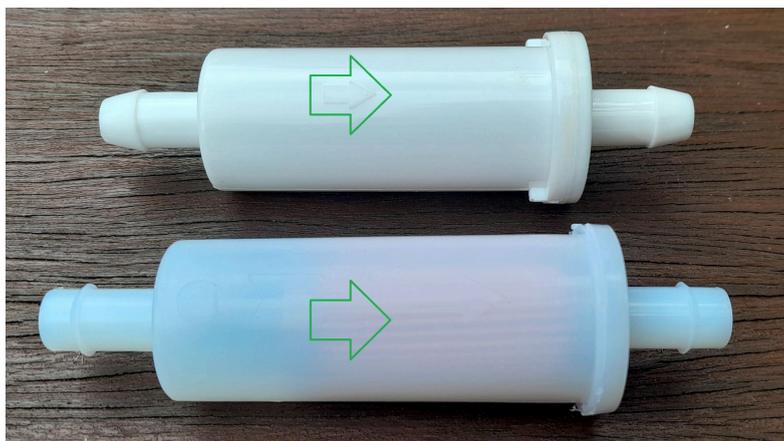
Figure 6. Water Inlet on left hand side and Water Outlet on right hand side



**Figure 7. Water Inlet on left hand side and Water Outlet on right hand side**

Run the Inlet Hose from the T-Piece take off point to the Water Genius inlet Solenoid Valve. Secure both ends with included Stainless Steel Clamps.

Insert the Water Filter along this Inlet Hose to protect the WaterGenius from impurities.



**Figure 8. Either a white or transparent Water Filter will be supplied. Both have moulded arrows on their bodies to indicate flow direction.**

Ensure that the Water Filter is installed with the correct orientation (refer green arrows in Figure 8) and fasten with the included Stainless Steel Clamps (Figure 9).



**Figure 9. Secure Water Filter with included Stainless Steel Clamps.**

Run the Outlet Hose from the Water Genius outlet Solenoid Valve to the included Female Coupler.

Secure both Hoses to the Solenoid Valve with included Stainless Steel Clamps (Figure 10).

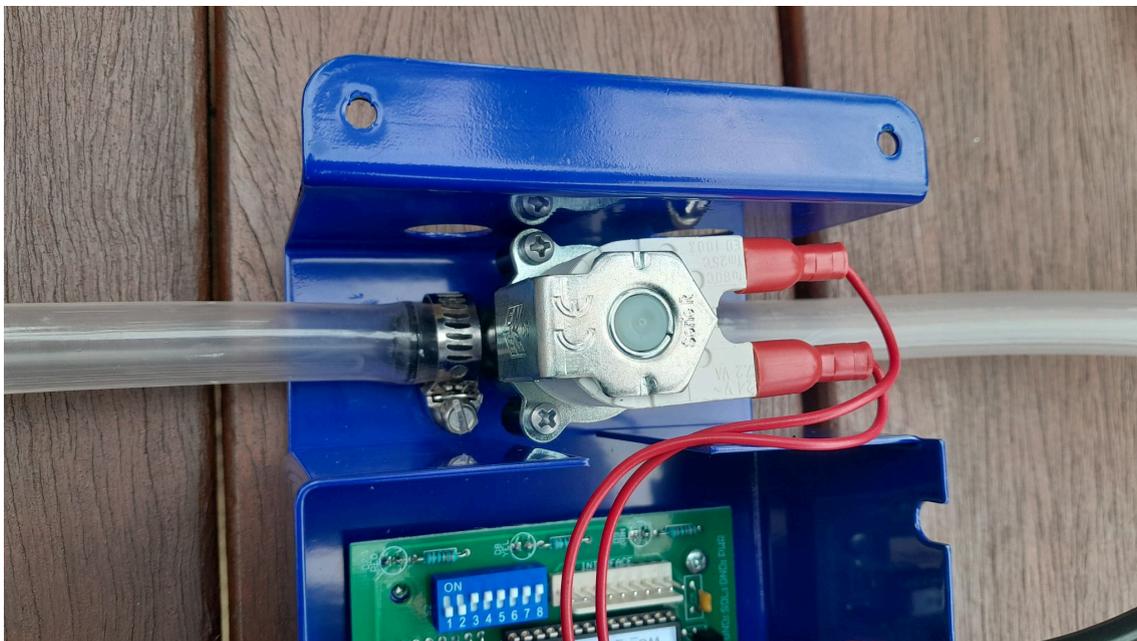


Figure 10. Secure hoses to Solenoid Valve with included Stainless Steel Clamps

#### STEP 4: ELECTRICAL CONNECTION

The WaterGenius is electrically connected to the Battery Charger DC Output Cables via included Insulation Displacement Connectors (IDCs) so that it can monitor the charging status of the battery.

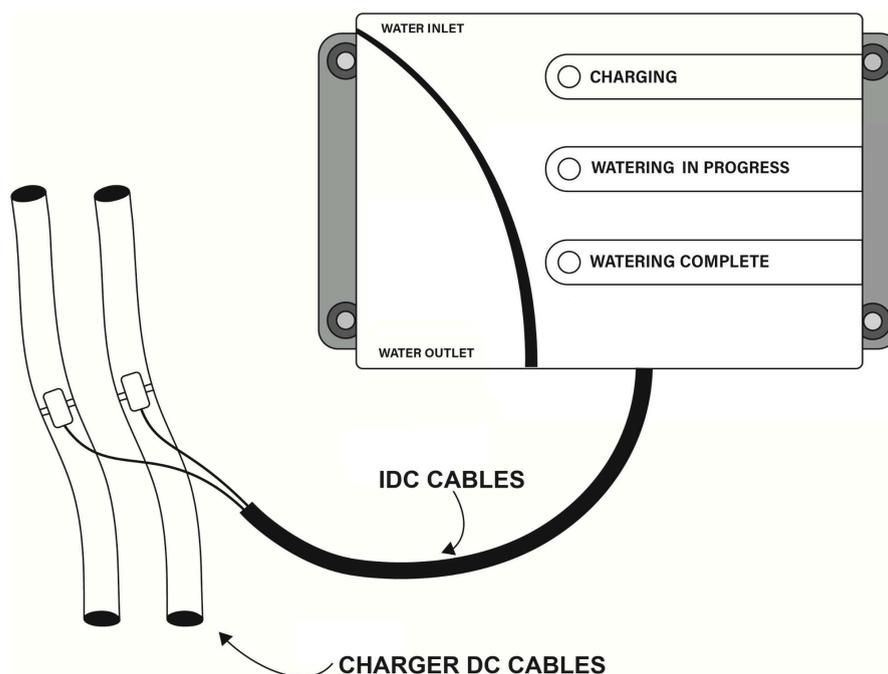


Figure 11. IDC Cables connect the WaterGenius to the Charger DC Cables

Connect the Red and Black wires of the WaterGenius IDC Cables to the copper core of the Battery Charger Output DC Cables (Figure 12). Ensure polarity, i.e.:

- Red WaterGenius IDC Cable connects to Red +ve Charger Cable
- Black WaterGenius IDC Cable connects to Black vVe Charger Cable



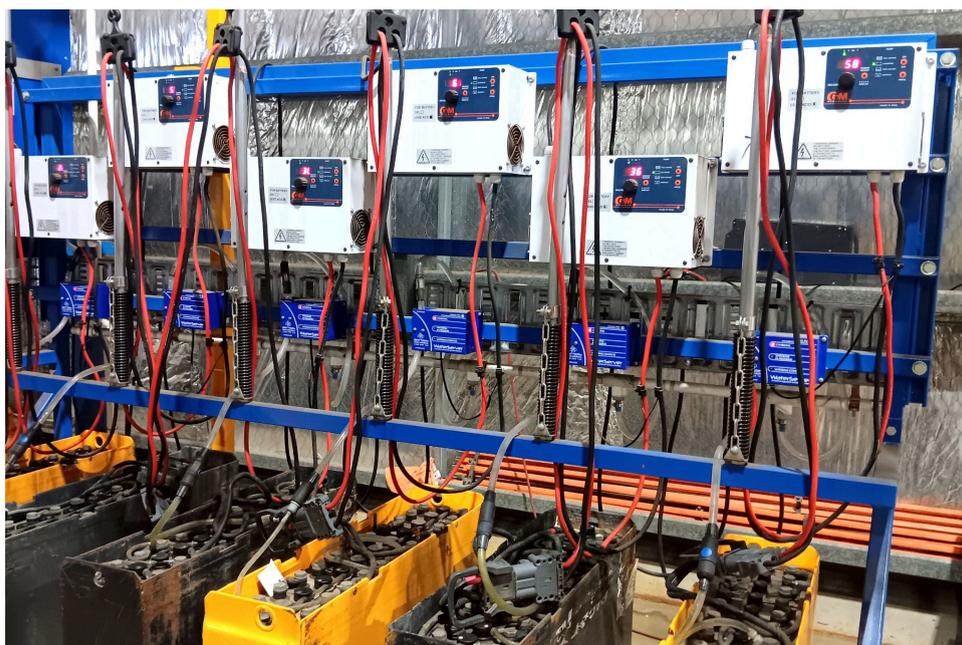
**Figure 12a. Push the IDC into the copper core of the Charger DC Cable**



**Figure 12b. Zip Tie the IDC and the Charger DC Cable together**

#### **STEP 5: ADJUSTMENT**

The WaterGenius installation is now complete. Adjust the Pressure Valve adjustment screw so that the water pressure supplied to the WaterGenius units is 15 PSI (100 kPa).



**Figure 13. Completed WaterGenius installation**