



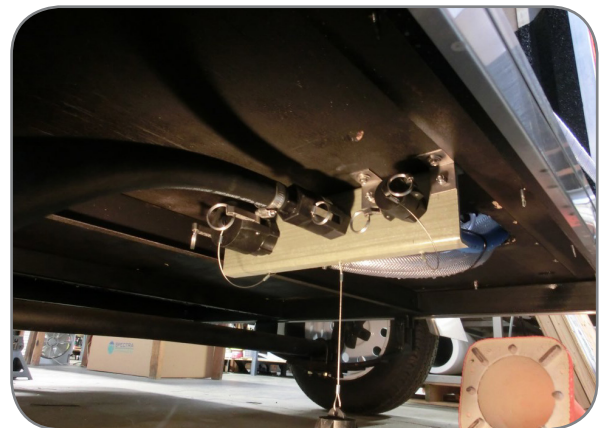
CUSTOM WATERMAKER APPLICATION

SOLAR POWERED WATERMAKER TRAILER FOR NAMENA ISLAND RESORT, FIJI

The Namena Island Resort in Fiji approached Spectra Watermakers in late 2013 in need of a watermaker. After several months of discussion, we decided on a solar-powered mobile solution. This complete system includes the seawater intake to 200+ feet of hose, required to move water from the watermaker to the storage tank on top of the island. This project demonstrates the quality custom work Spectra can engineer and the ideas we can provide for mobile solutions.



We started with a standard 5 ft. x 8 ft enclosed trailer and added additional components. The interior was coated with a heavy duty spray-on urethane (Rhino lining) to waterproof the floor and walls as well as create a drain tray under the watermaker.



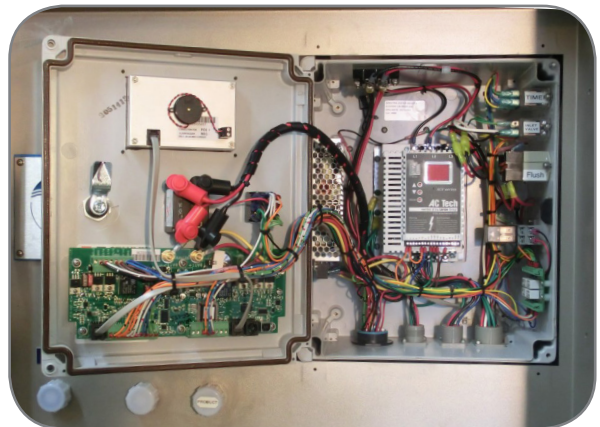
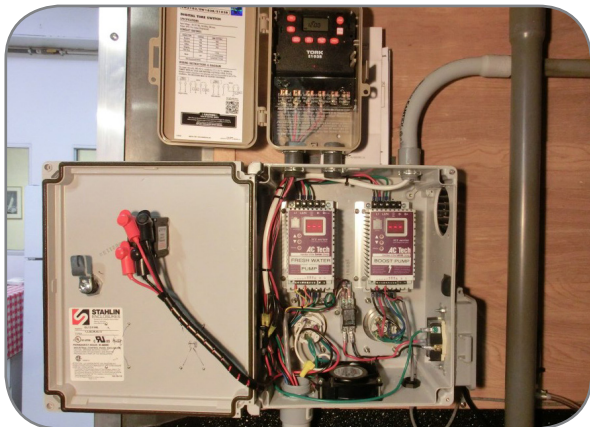
Vents were added to the sides of the trailer, and under the door we added quick disconnect fittings so the unit can move to a safe location during threatening weather.



Included with the system, a remote boost pump (all plastic jet pump) with an inlet screen and quick connects on all hoses. Attached inside the trailer are twin tank media filters with automatic back flushing gauges that measure pressure drop across filters



We installed a 125 gallon product water tank with a boost pump. Chlorine is injected into the product water before it enters the product water tank



The customer had very specific requirements as to how the control system was to operate so the watermaker was designed with a unique control panel. All electrical controls are well marked for reference. In the left picture is the run timer so the watermaker is only running during the parts of the day where the solar panels are producing power. The various control functions are managed by the watermaker control box with MPC automatic controls and relays.