WATER AIR
Wyckomar
UV PURIFICATION SYSTEMS

CAUTION
Please read and understand all instructions prior to attempting to assemble the Solar Tote

INSTALLATION INSTRUCTIONS

SY250-Solar Powered Tote

Congratulations on your purchase of the Solar Tote from Wyckomar Canada Inc.

Unpack the box in upright position.
Filp open the lid, or, cut the box along the edges with a sharp knife



Remove the slim package inside – this contains the solar panels so handle with care.



Put aside at a safe spot.



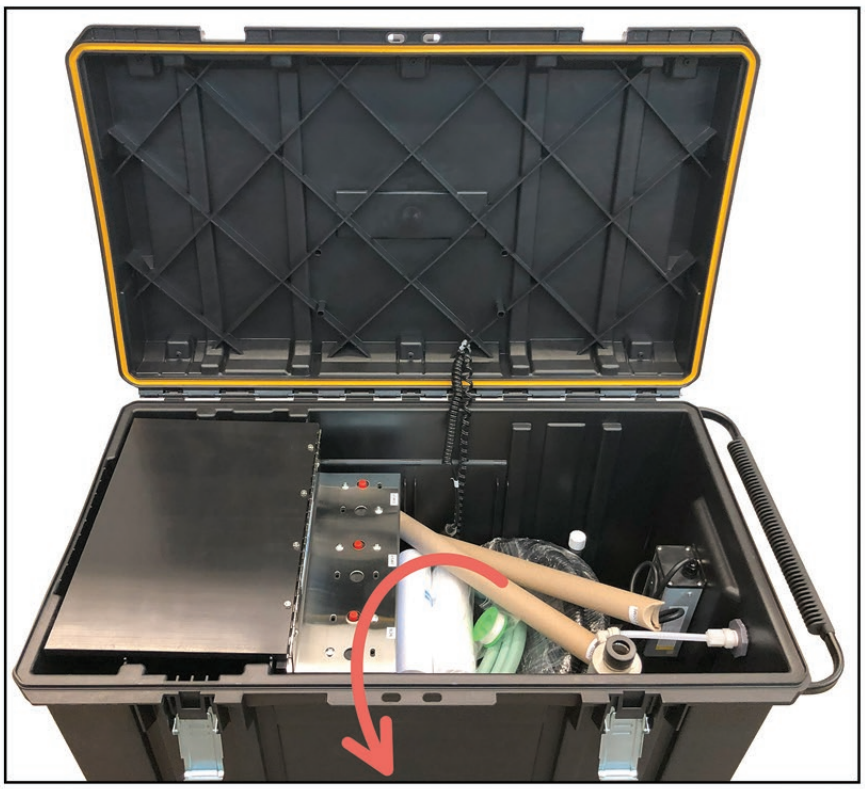
Remove the Solar Tote unit from the box – again handle this with care. The box is heavy and may have to be lifted by two people.



Flip the closing latches to lift the lid of the Solar Tote.



Inside the Tote you will notice several components.
Remove all components including 1 UV Lamp and 1 Dome (check labels on brown tubes) plus the two Hoses, 3 Filters, a Black Ballast Cable, Black Filter wrench and a roll of T-Tape.

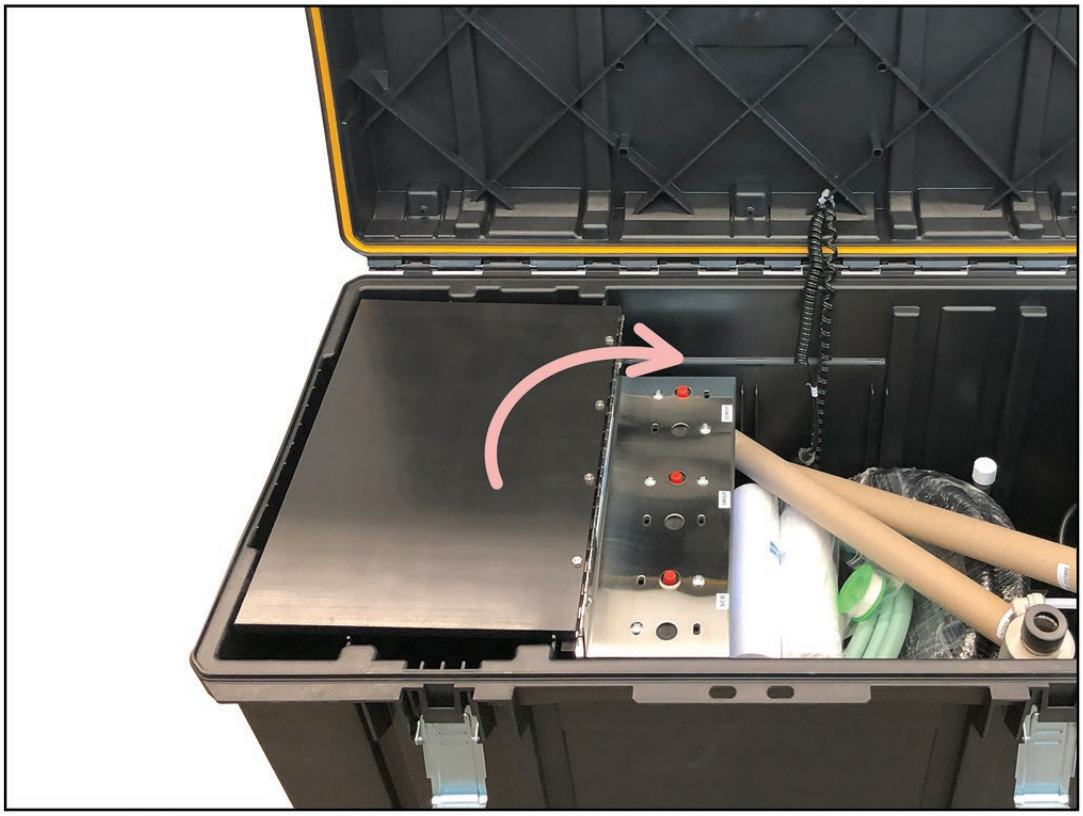


Also included is a 120/240V Transformer with Cable, and a Vehicle Socket Cable

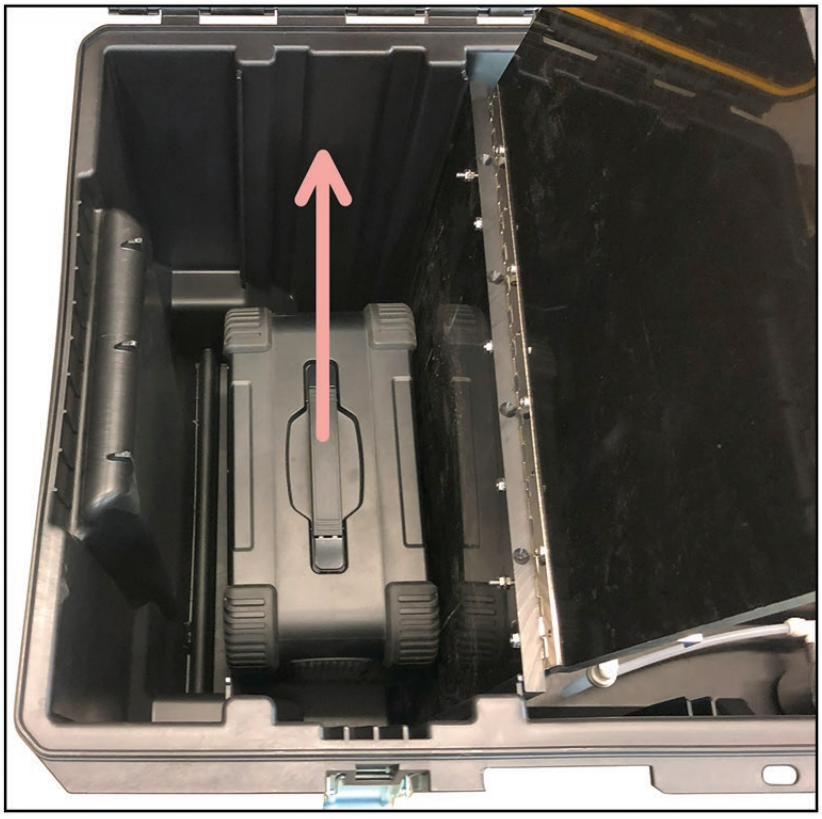
Put these items to the side for now.



Lift the black panel to reveal the power centre unit.



Lift the power center unit, close the panel.



Set the power center unit on top of the closed panel

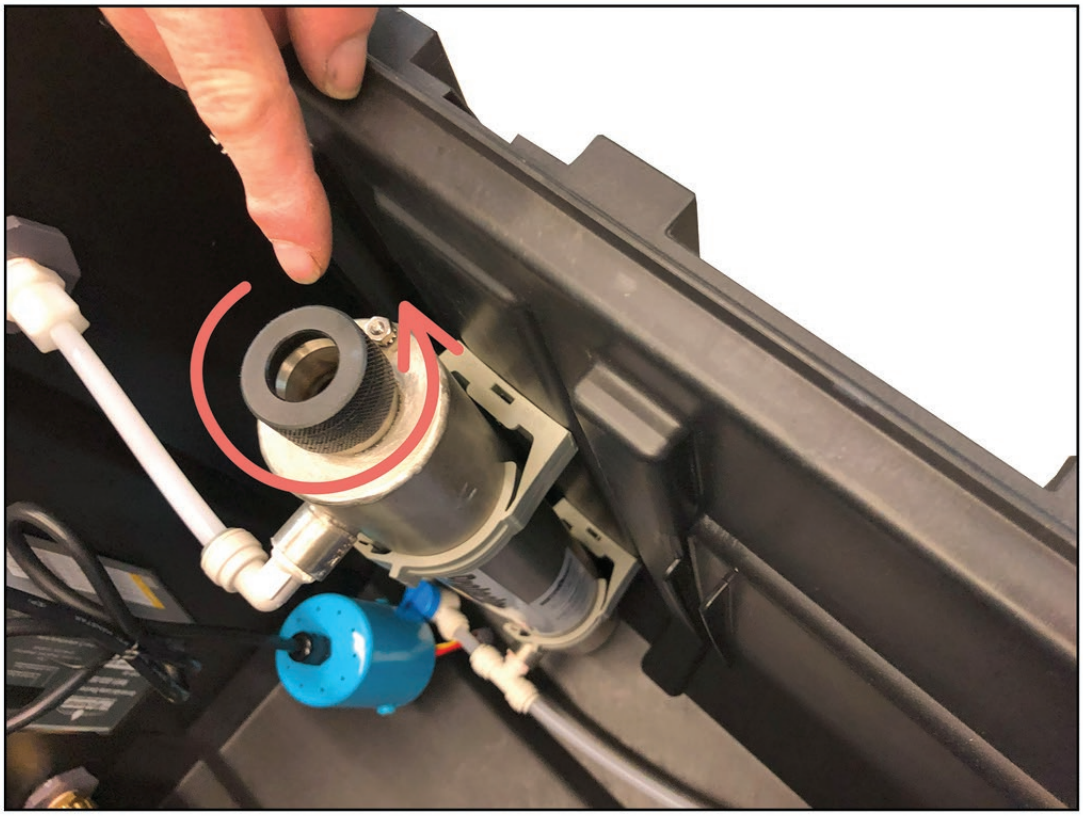


NOTE: The Power Center should be fully charged before initial use and can be charged in 3 different ways:

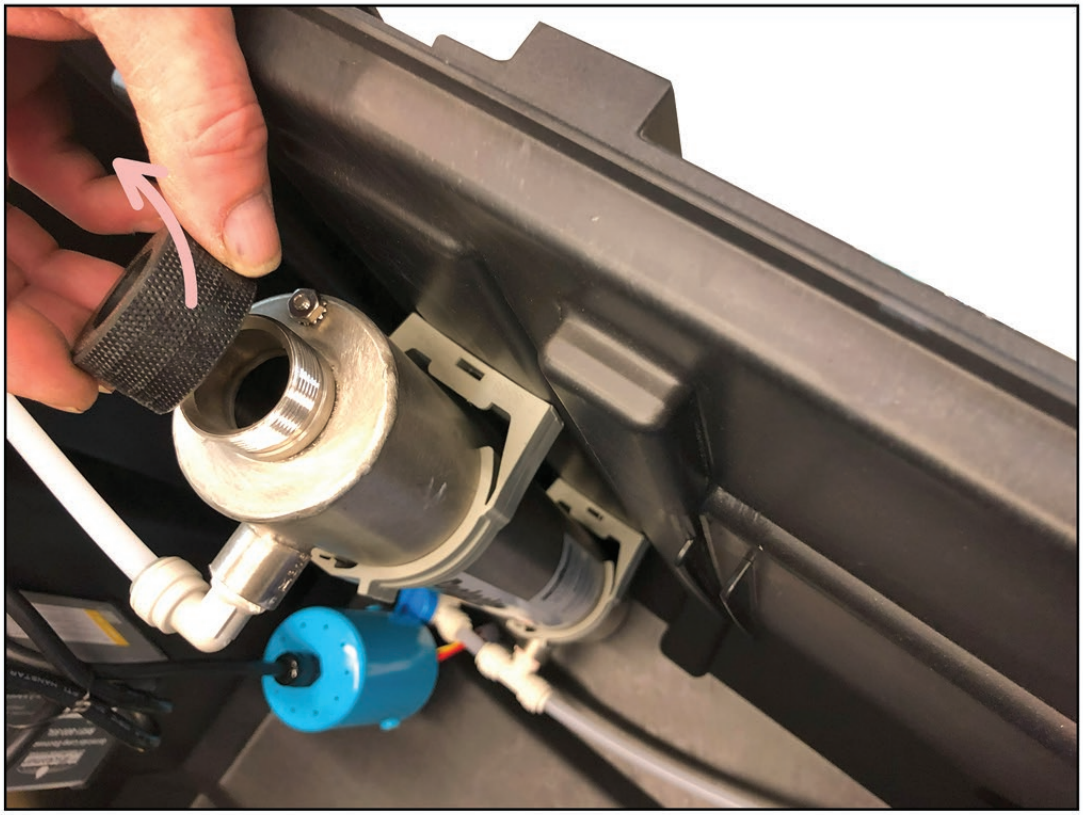
-Solar Panels,
- Wall Plug or
- 12V Vehicle Plug.

See Included User Manual for more information.

Locate the UV chamber inside the Tote – it's made of stainless steel.
On the top there is a Black Compression Nut, this needs to be unscrewed to insert the quartz dome.



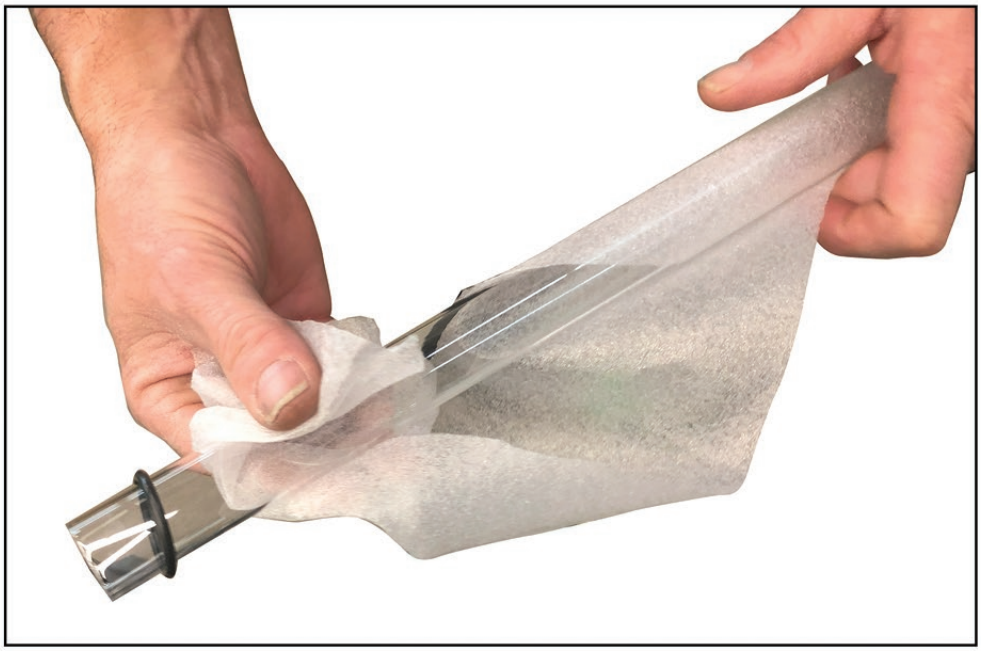
Remove and put aside.



Locate the UV Quartz Dome in one of the brown tubes – check the label.
Remove the Dome from the packaging.

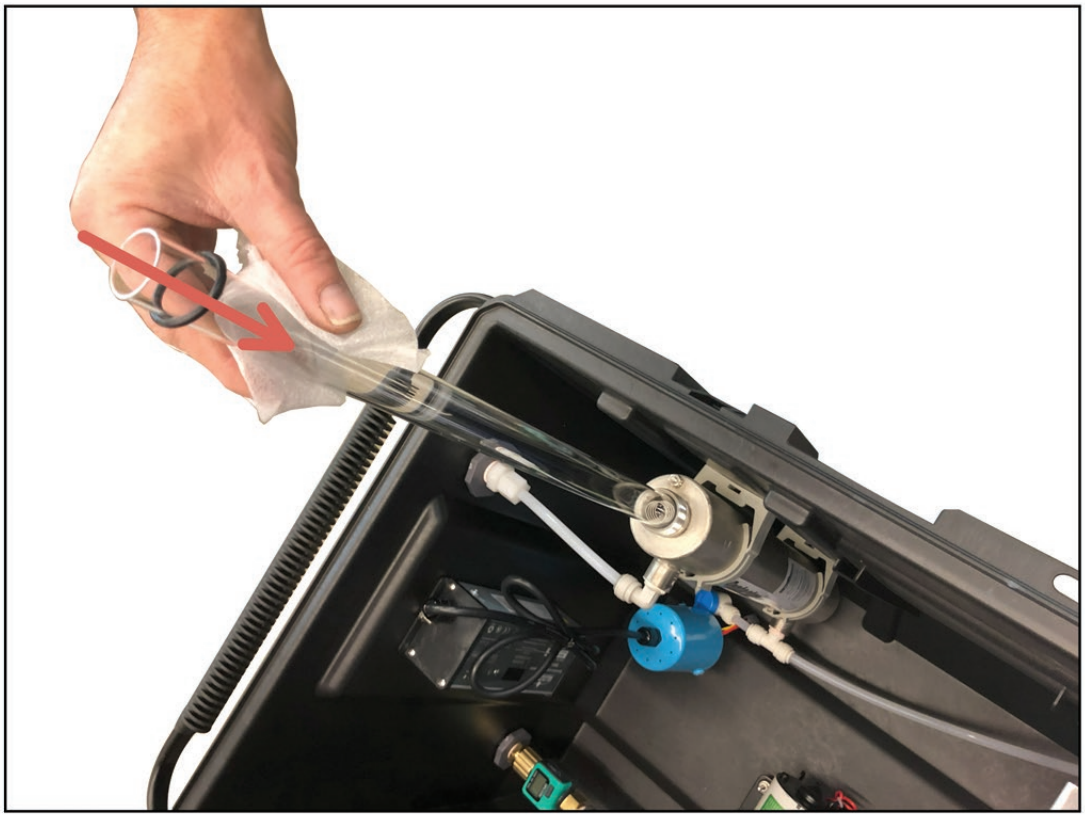


Be sure to handle the Dome with gloves or a soft clean cloth to avoid getting fingerprints on the surface.
You can also use a piece of the packaging to handle the Dome.



There is a small spring in the Dome, be careful not to misplace it – it stays in the Dome to act as a cushion for the UV Lamp.

Carefully and slowly insert the Dome straight into the UV Chamber. Be sure the Black O-Ring is at the top of the UV Chamber.



Seat the Black O-Ring at the top of the UV Chamber so the O-Ring sits gently in the bevel of the UV Chamber. Be sure O-Ring is not twisted in any way.



There should be approx. 1/2 inch of the Dome sticking up out of the UV Chamber.

Re-Install the Black Compression Nut over the Dome and onto the UV Chamber.

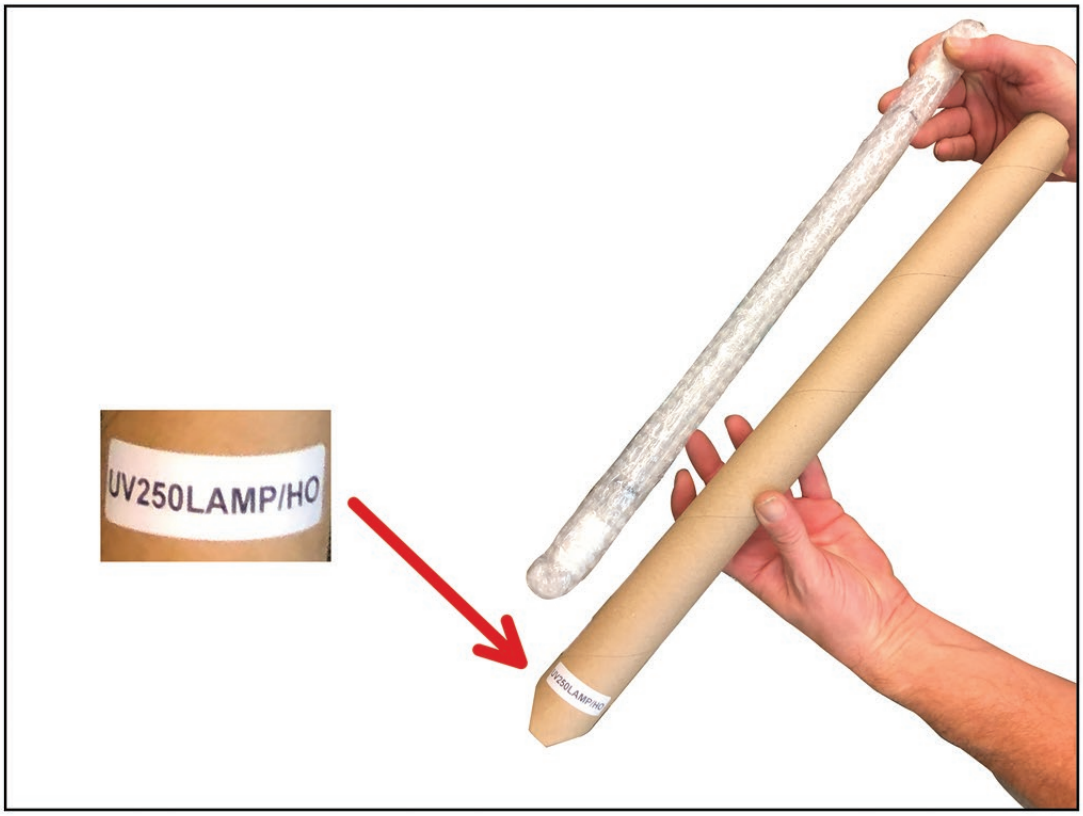


Slowly tighten the Compression Nut and be sure not to cross-thread it. Gently tighten the Compression Nut. **CAUTION: FINGER TIGHT ONLY.**



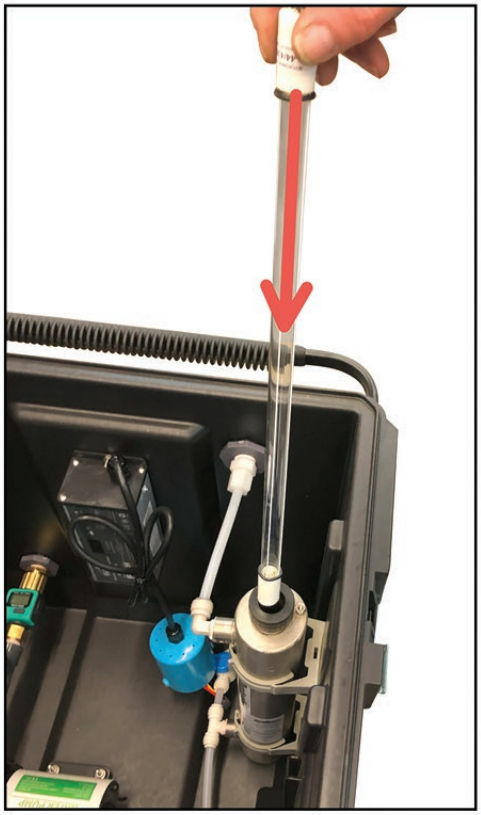
CAUTION – over-tightening the Black Compression Nut can damage or break the Dome. Damage due to improper installation is not covered by warranty.

Locate the UV Lamp in the other brown tube by checking the label.
Unpack the UV Lamp carefully and handle the Lamp with the same care you used with the Dome.



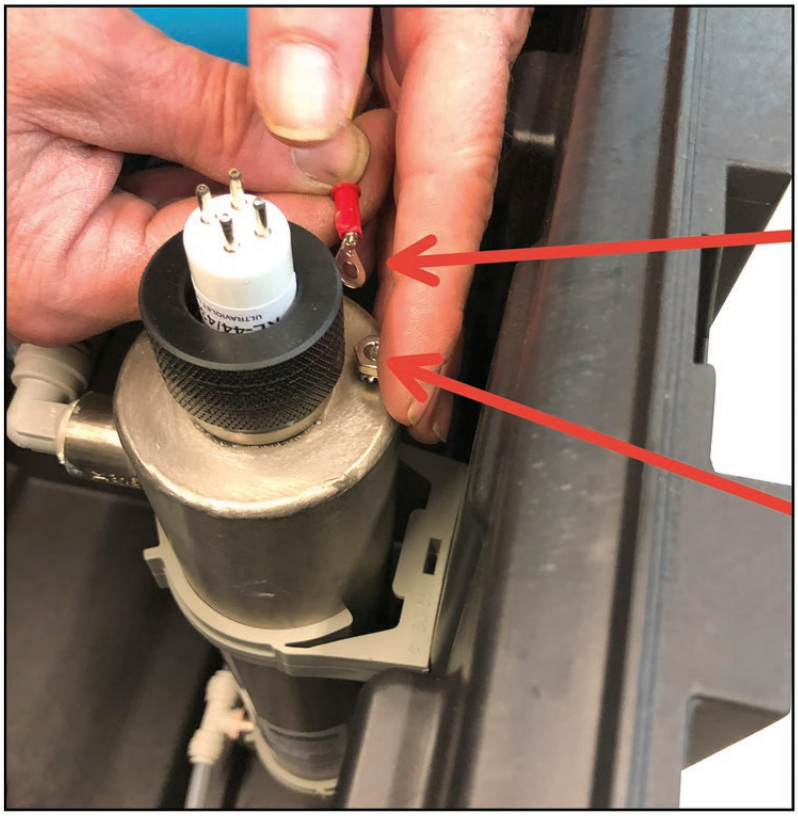
Handle the UV Lamp using the white lamp ends only – do not touch the glass to avoid fingerprints.

Gently and slowly insert the UV Lamp straight into the Dome. You will insert the Lamp through the hole in the Black Compression Nut and the UV Lamp will settle on the Spring in the bottom of the Chamber.

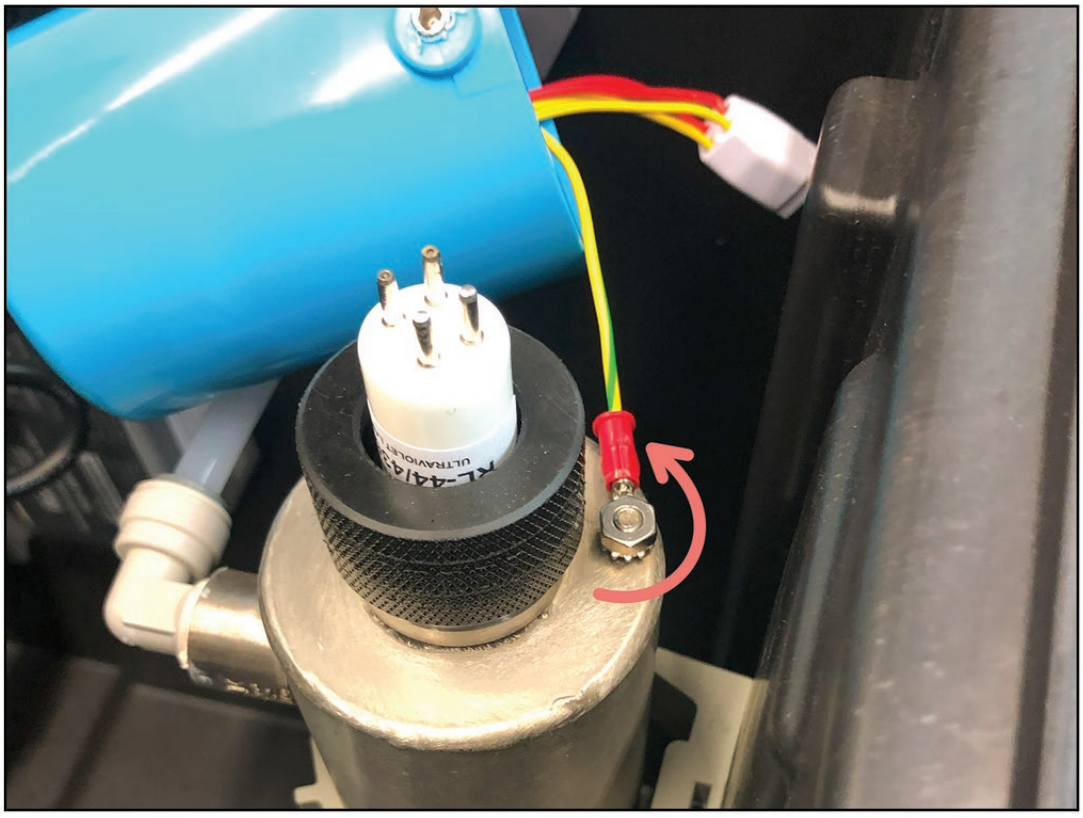


Install the UV Lamp with the 4 pins at the top, this is where the ballast connects to the Lamp.

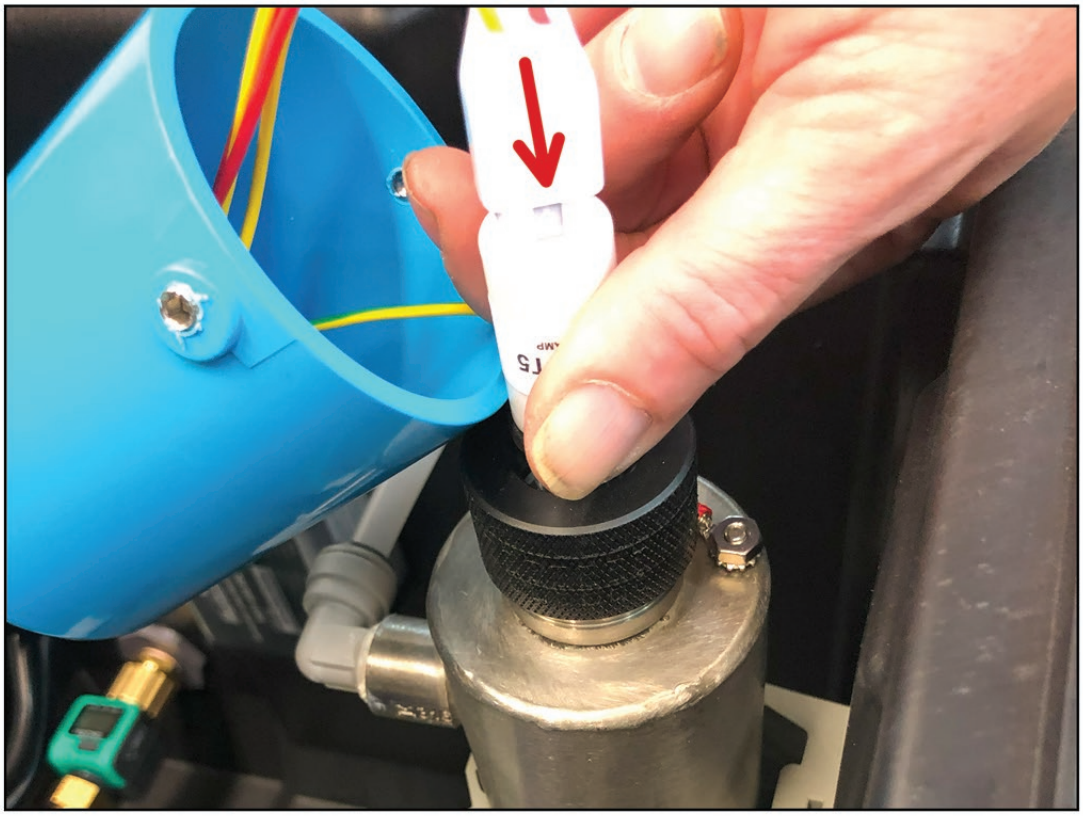
Locate the Blue Cap and position it beside the UV Chamber. Remove the small nut from the Ground Screw located on the UV Chamber. Select the Ground Wire from the Blue Cap (the one with the round Lug Connector on it) and attach the round Lug Connector to the Ground Screw on the UV Chamber



Tighten the nut to secure the Lug Connector to the Ground Screw.



Next, while holding the white ceramic end of the UV Lamp with one hand, gently push the square Lamp Pin Connector from inside the Blue Cap over the 4 Pins on the UV Lamp.



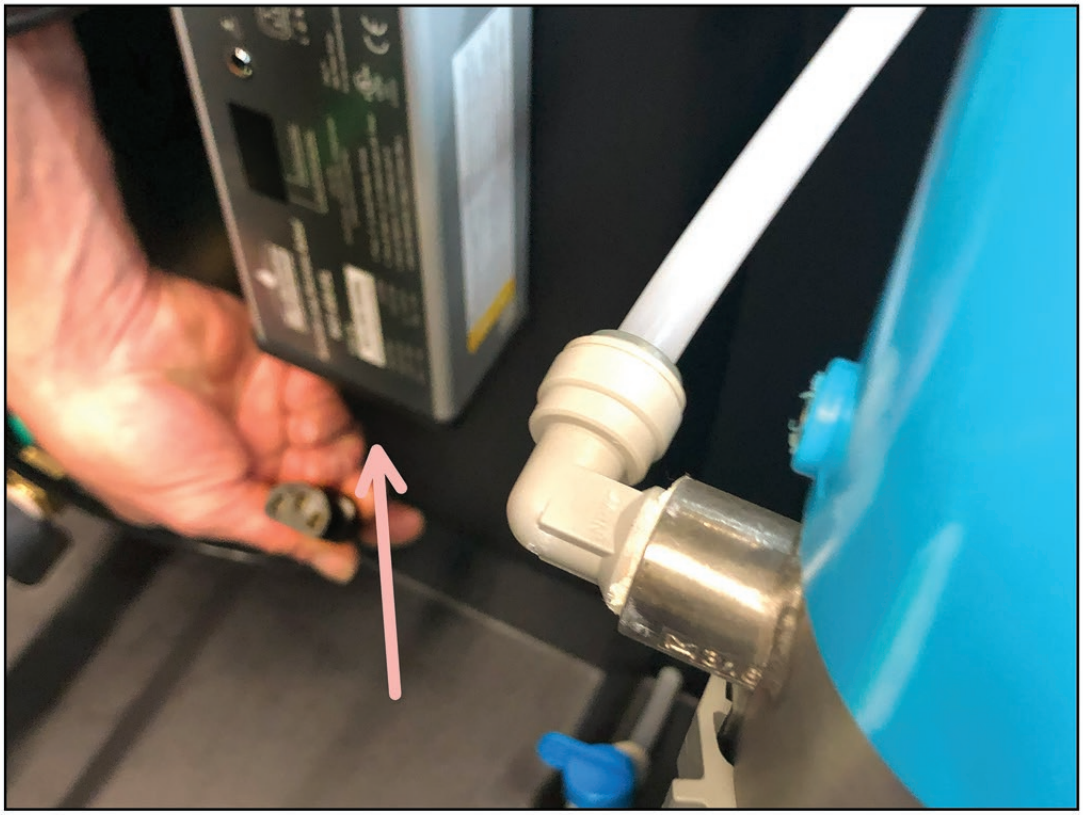
Gently continue to push the Lamp Pin Connector onto the 4 Pins until secure.
Then install the blue cap onto the UV Chamber.



Wiggle the Blue Cap onto the UV Chamber and gently secure with Allen Screws (do not overtighten)..



Retrieve the Black Ballast Cable from the included components and plug in the female end to the bottom of the electronic ballast as shown.



Plug in the ballast power cable as shown..



NOTE: Be sure the Power Center is OFF (there is no display visible in the Display Panel).
Plug in the male end of the Black Ballast Cable to the Power Center.



Use either of the plugs in the center of the Power center – they are marked as Pure Sine Wave 530W

Locate the Black Cable attached to the inside of the Tote. One end is already connected to the Pump and the other end has a 12V vehicle-style plug on it.



Connect the 12V vehicle-style plug into the Power Center at the location marked as 12V 10A as shown.

This image shows the Black Ballast Cable and the 12V vehicle-style Pump plug connected while Power Center is OFF.



Locate the Black Inlet Hose as shown.



Note the quick-connect attachment on the inlet hose.



To connect the Inlet Hose to the Inlet Port on the Solar Tote, first unlock the connector by pressing the button while pulling the ring outwards to open the connector (do this with the ring on both sides).

Push the connector onto the inlet fitting on the Solar Tote and while applying gentle pressure,, pull both rings down to lock the connector in place on the Inlet Port of the Tote.



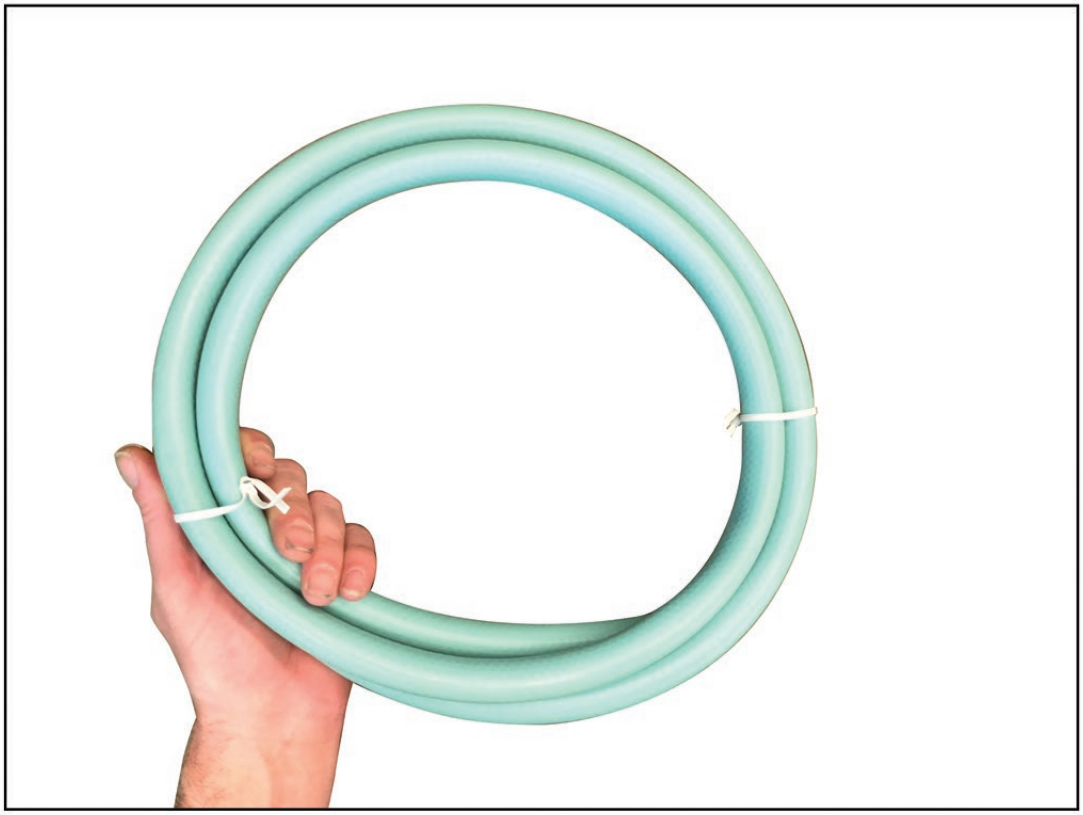
Inlet Hose connected to the Inlet Port of the Tote.



The other end of the Inlet Hose has a strainer and a check valve as part of the end fitting. the fitting. Submerge the Inlet Hose into the source water supply prior to activating the pump.



Locate the Outlet Hose from the included Components.



Attach to the Outlet Hose to the Outlet Port on the Solar Tote.



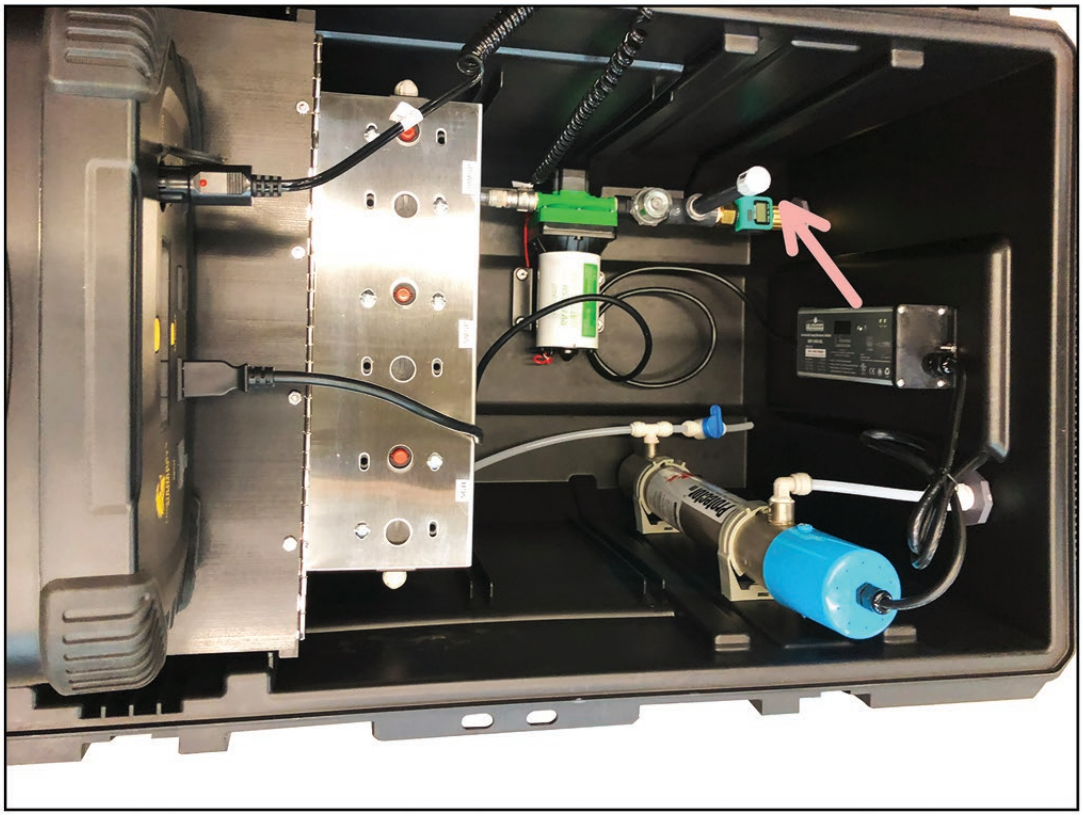
This is a simple garden-hose style connection..



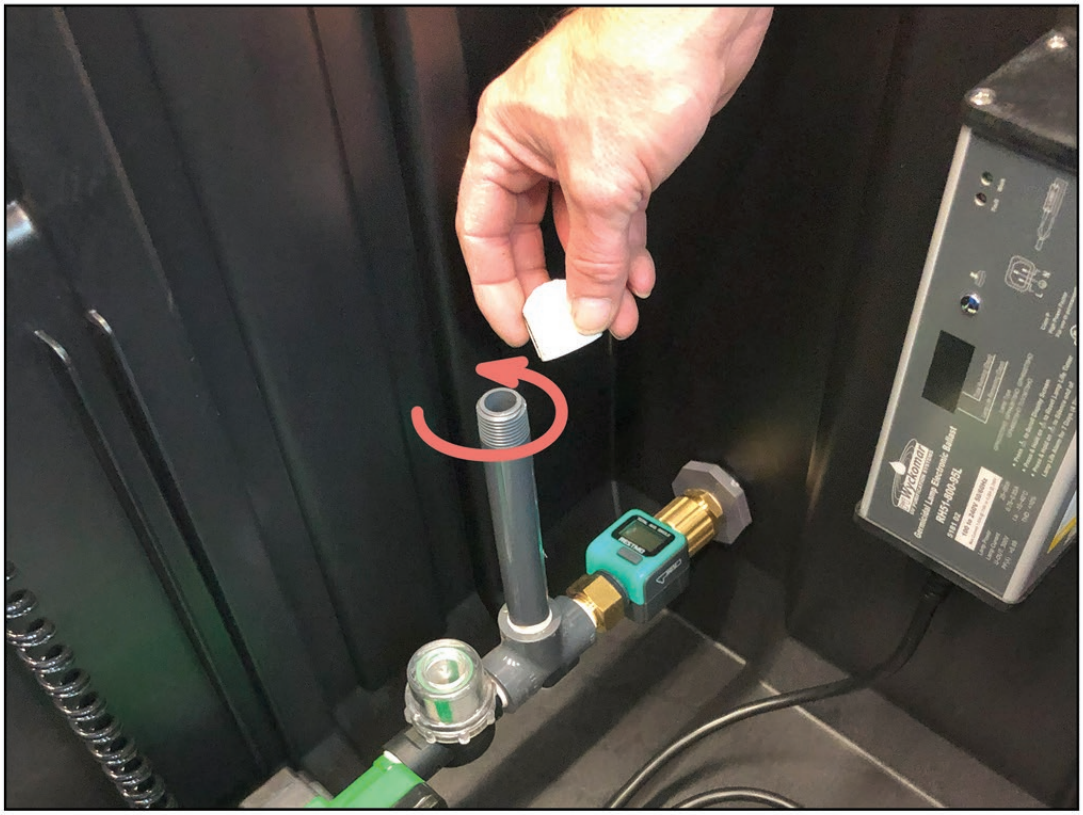
The Outlet Hose is used to fill your containers with treated water.



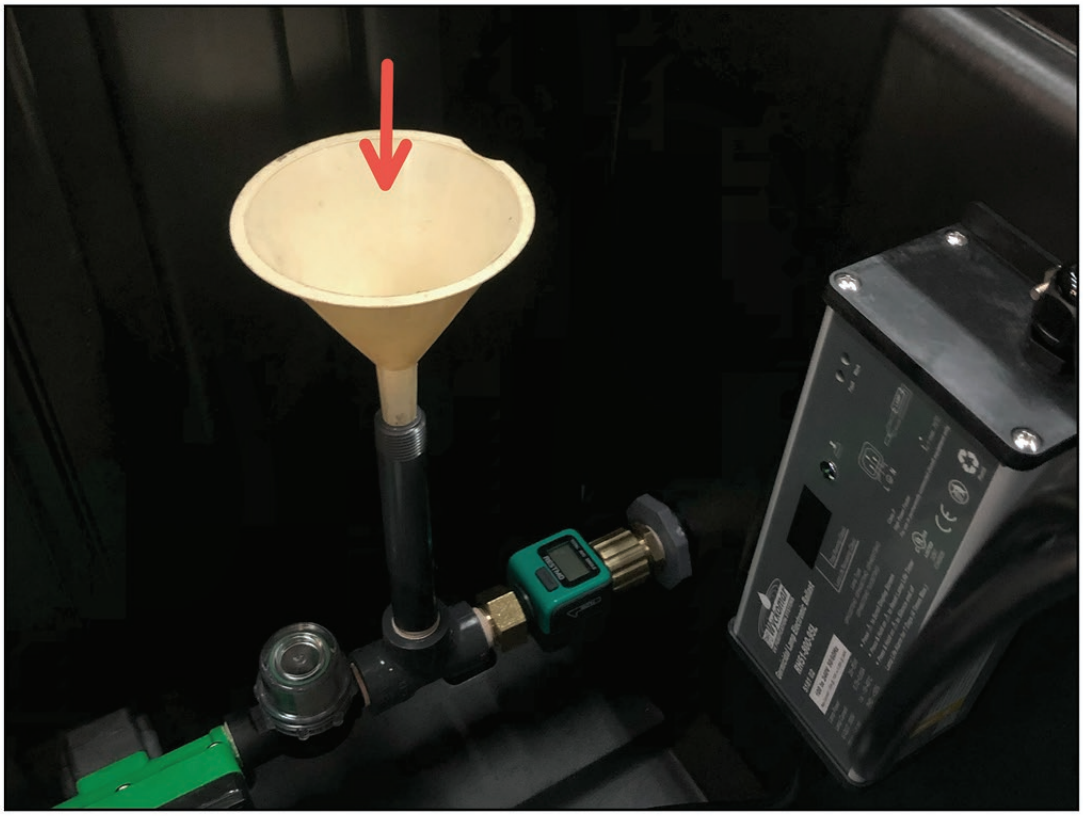
Locate the Priming Tube of the pump.



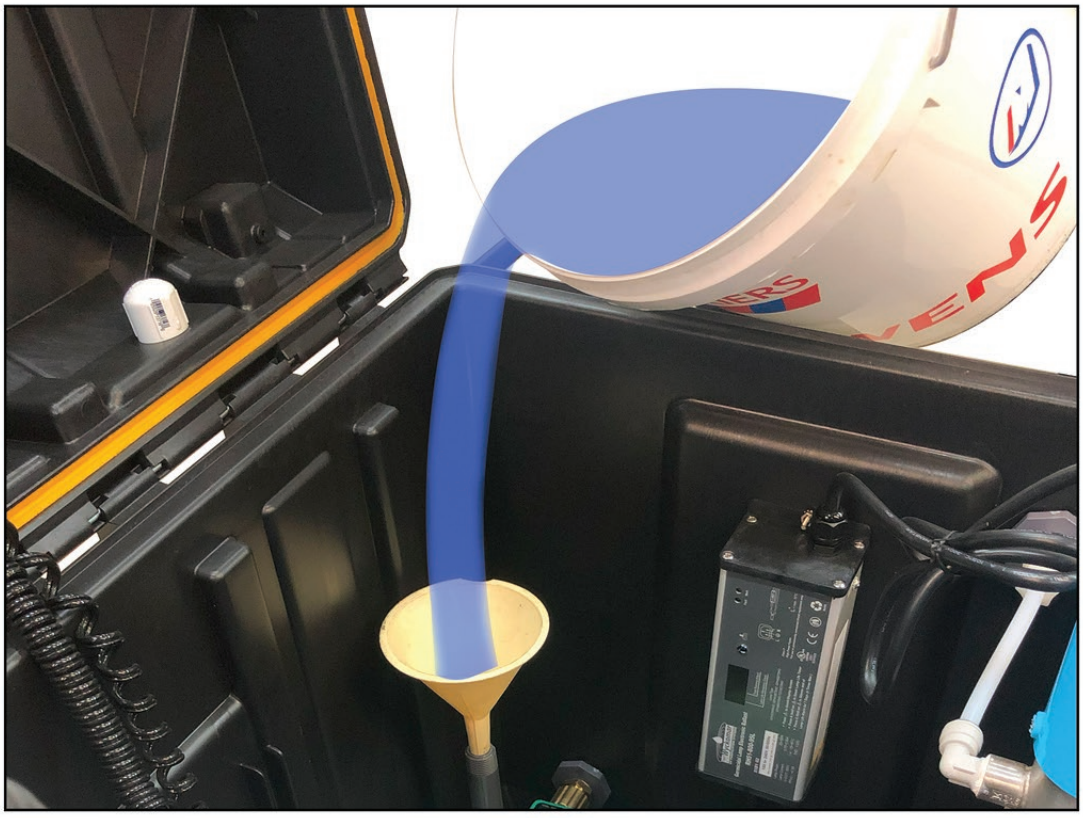
Unscrew and remove the cap as shown.



Install a funnel in the priming tube to fill the pump with water.



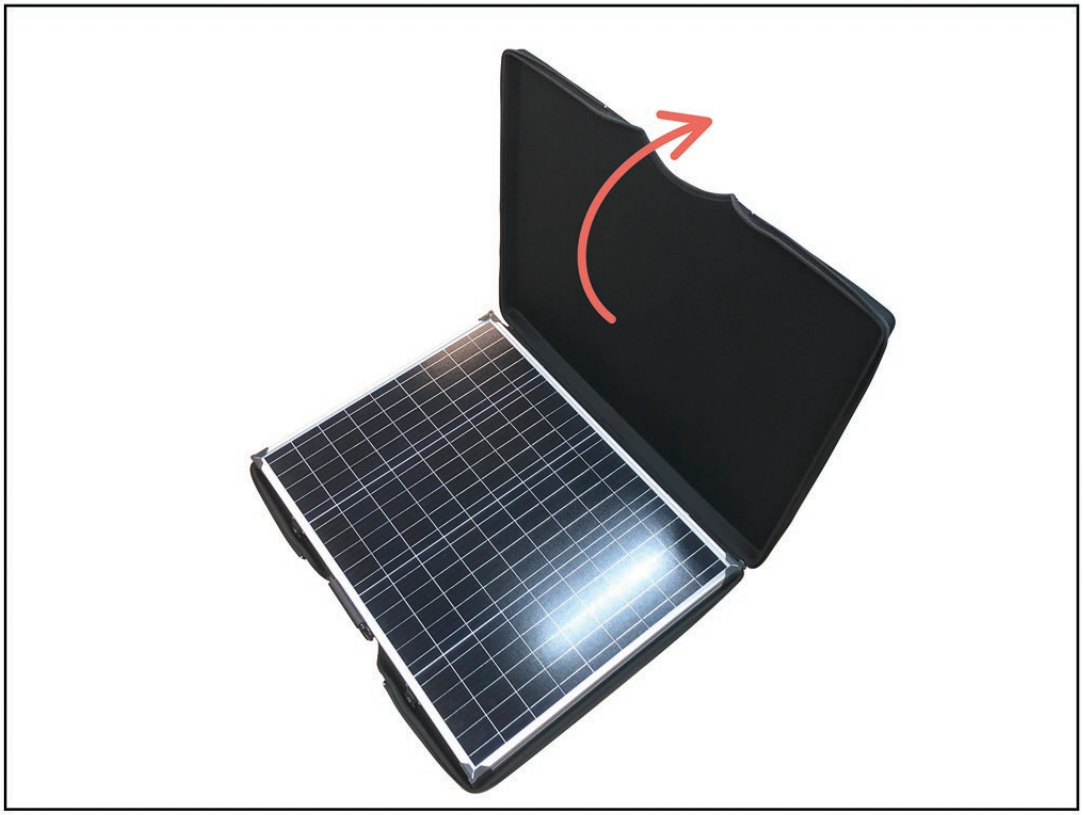
Add water to the Priming Tube until full, then replace the cap and wipe up any spilled water inside the Tote.



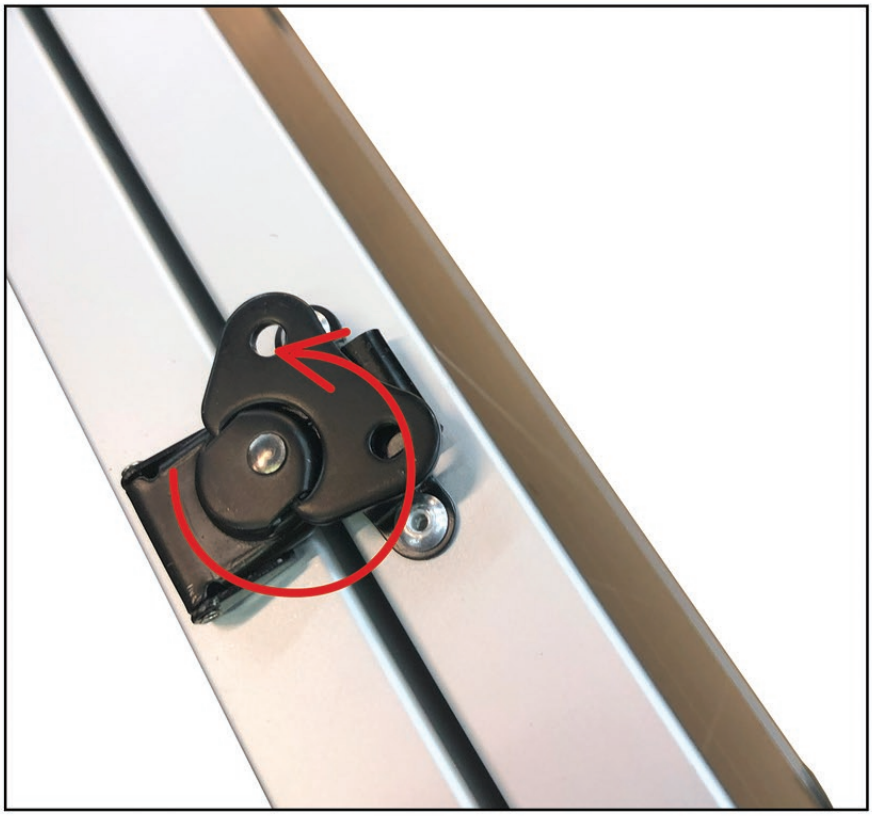
Locate the Solar Panel Array. Flip up two latches to open the panel casing.



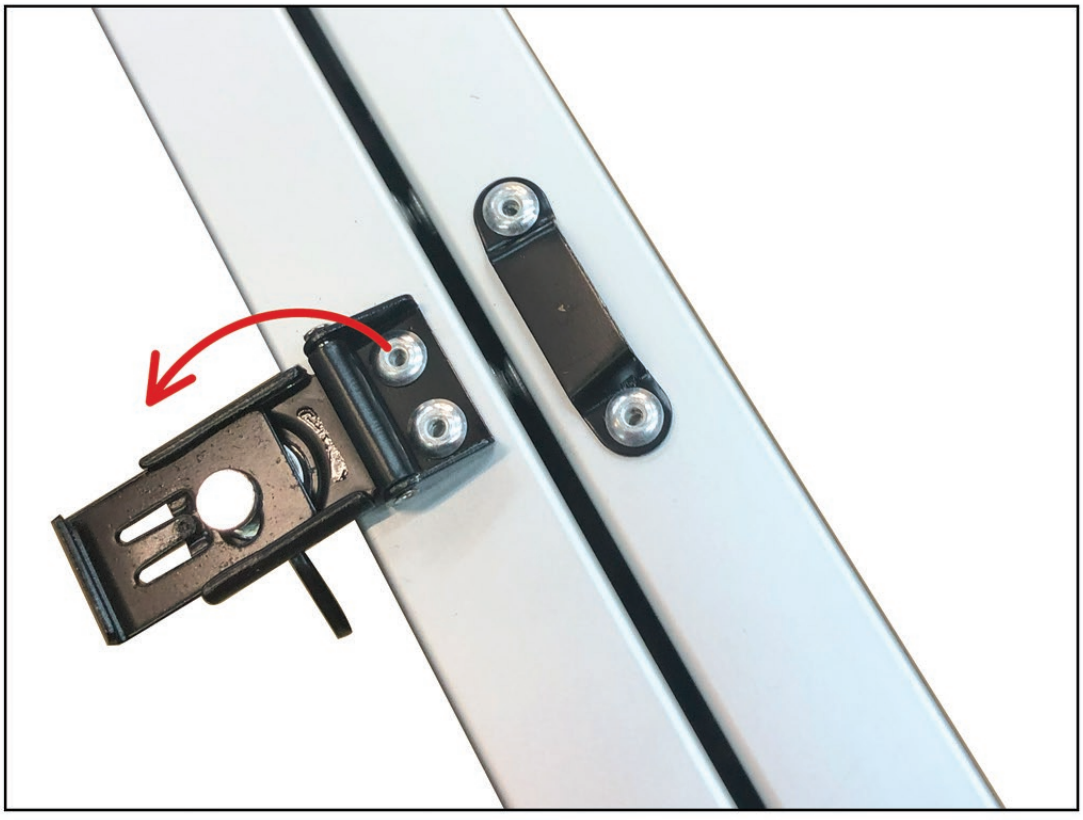
There are two Solar Panels in the Array, they are hinged together for easy use. Unpack and open as shown.



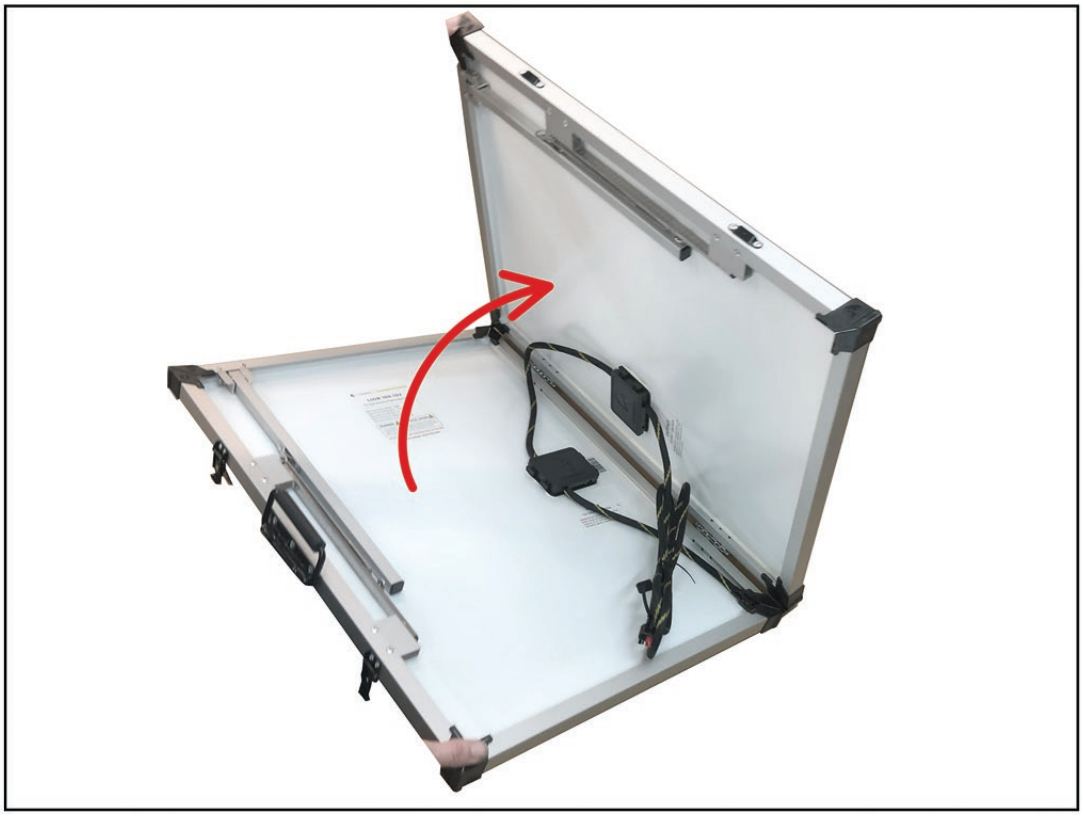
Turn the two hinges holding the array together



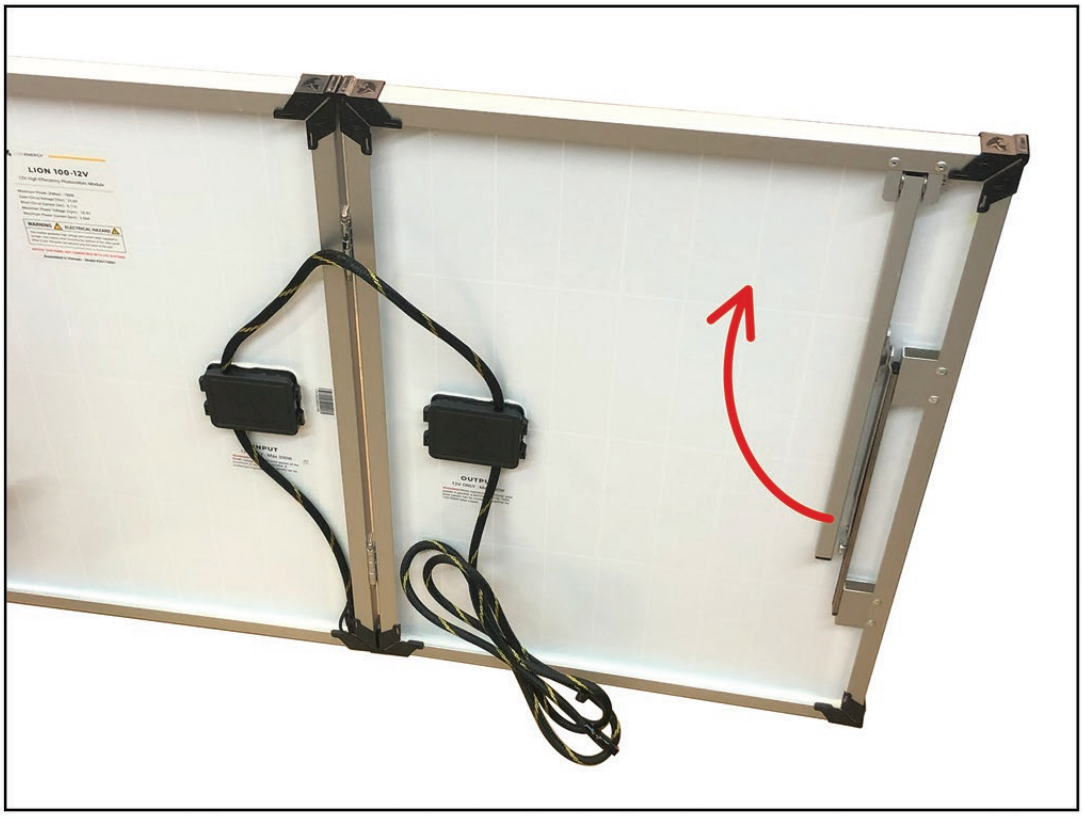
Flip open the latches.



Carefully fold open the Solar Panel Array.



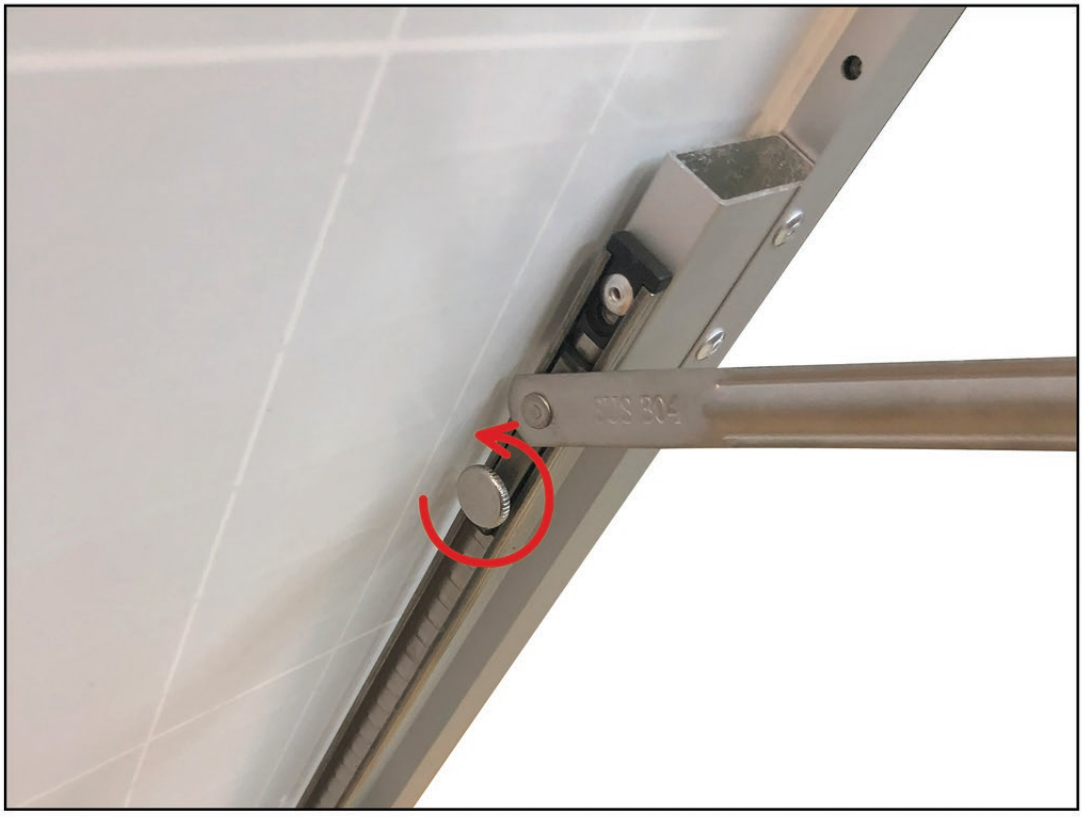
Locate the retractable legs on the Solar Panel Array and lift them up.



The retractable legs lock into place.



Secure with the screws



In order to use the Solar Panel Array to charge the Power Center, connect the cable from the Solar Array to the Power Center as shown



Locate the Solar Panel Array facing the sun to allow as much power generation as possible.



With all cables connected as shown press the Main Power Button to turn the Power Center on.



If the Power Center was pre-charged the display should show 100% charge available as shown. Neither the Pump nor the UV Lamp are on at this point.



To turn on the UV Lamp press the AC ON/OFF button.



You will see the AC ON/OFF indicator go on and the display will change as shown. The Pump is not running at this point.



The UV Ballast will light up and indicate time remaining (in days) until a new UV lamp should be installed.



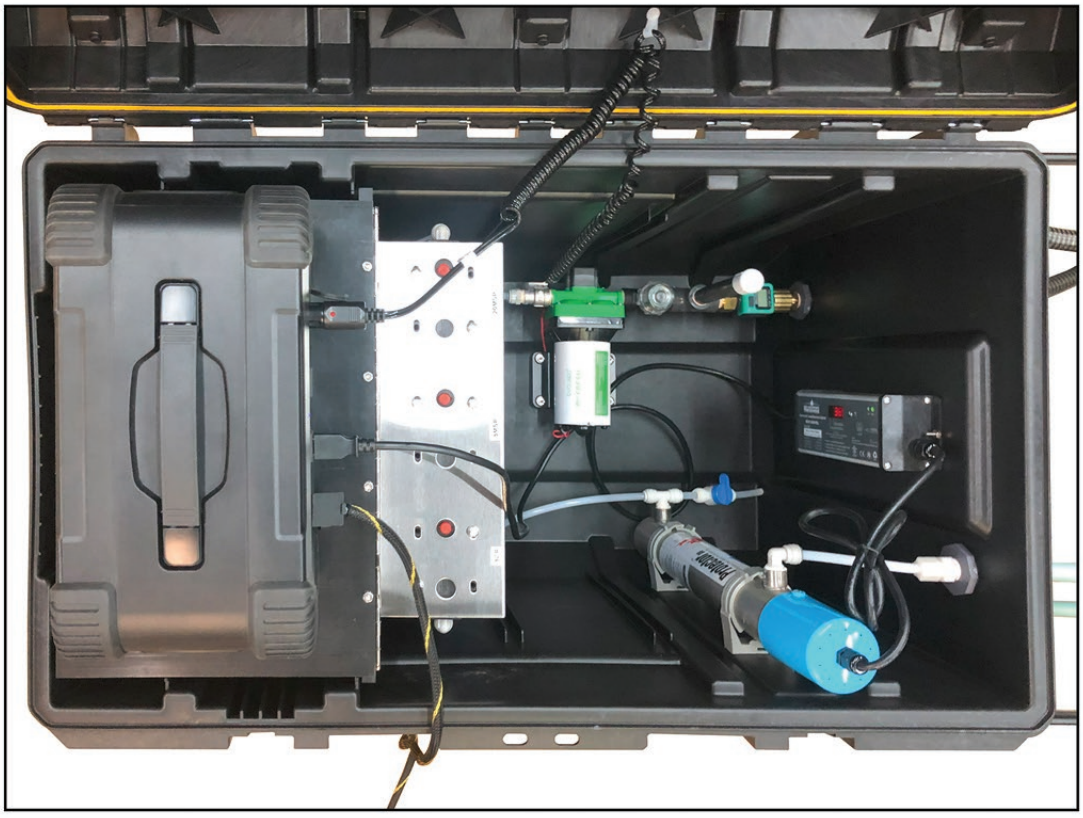
You can verify the UV Lamp operation by very briefly looking under the Blue Cap to see the UV Lamp is on. Replace cap immediately.



Locate the Flow Meter inside the Tote. Press the button to turn on. This unit can provide valuable flow rate and water volume information. See User manual included.



This is an overview of the Solar Tote completely assembled for use.



To turn on the Pump press the DC ON/OFF button. This will start the pump and water will move through the system, be sure to have containers ready to collect the treated water. Check for leaks.

The Solar Tote is ready to provide clean safe water for consumption.

