



UV Sterilizer Upgrade Instructions

Important Safety Precautions

It is recommended that you plug the chiller into a GFCI outlet at all times. Do not operate SeaChill chillers or any accessory to SeaChill chillers (heater or UV sterilizer) without water flow. Overheating of lamp or heater may occur.

After installation, monitor unit for at least an hour to confirm there are no leaks.

DO NOT LOOK DIRECTLY AT ULTRAVIOLET LAMP WHEN ON. EYE INJURY MAY OCCUR

Do not handle the glass of the UV lamp with your bare hands or fingers, this will damage the lamp.

To avoid potential electric shock, care should be taken since aquarium equipment involves use of electricity and water. For each of the following situations, do not attempt repairs by yourself; return the appliance to an authorized service facility for service or discard the appliance:

1. Unplug chiller from wall outlet before installation of UV sterilizer. Only plug chiller in when directed to by the installation instructions.
2. If electrical components of the chiller or UV sterilizer get wet do not plug in until thoroughly dried
3. Examine the UV sterilizer closely after installation. Do not be plug in if there is water on parts not intended to be wet.
4. Do not operate chiller or UV sterilizer if it has a damaged cord or plug, or if it is malfunctioning or damaged in any manner.
5. Close supervision is necessary when any appliance is used by or near children.
6. Always unplug the chiller from an outlet when before putting on or taking off parts, and before cleaning. Never yank cord to pull plug from outlet. Grasp the plug and pull to disconnect.
7. Do not use the UV sterilizer for other than intended use. The use of attachments not recommended or sold by the UV sterilizer manufacturer may cause an unsafe condition.
8. Do not install or store the UV sterilizer where it will be exposed to the weather or to temperatures below freezing.
9. Make sure the UV sterilizer is properly installed before use.
10. If an extension cord is necessary, use a cord with a proper rating. A cord rated for less Amperes or watts than the chiller with UV sterilizer may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.

KEEP THESE INSTRUCTIONS



DANGER
Electric Shock Risk



DANGER
Eye Injury Hazard

Contact

TECO US is the United States distributor for Seachill.
For technical support, safety concerns, or sales, contact:

service@tecous.com

or visit us online at:

www.tecous.com



Parts needed for UV installation.

Teco will supply:

- UV sterilizer Ballast (with wiring harness)
- Starter for UV lamp
- Screws to mount ballast (2)
- Quartz sleeve
- UV lamp
- Zip ties for wiring (6)

Tools needed:

- Channel lock pliers or similar
- Phillips head screwdriver
- Wire cutters

Parts & Tools



Unscrew the Ring Nuts and remove the shut off valves from the chiller.



Use channel lock pliers or similar to loosen plastic nuts holding the housing in place. It is not necessary to grip nuts tightly, a loose grip will help prevent scarring of plastic. If desired, a piece of duct tape may be used to cover the teeth of the channel lock pliers to prevent scarring of the plastic nuts.



Once loosened, manually remove the plastic nuts.

Step 1

Removing The Shutoff Valves



Remove air filter from chiller housing.



Pull upwards on rear of chiller housing, loosening it on the frame of the chiller.



Insert fingers between housing and frame of the chiller at the front. Once fingers are between frame and housing, lift upwards.



Lift housing off of chiller frame

Step 2

Removing Filter / Housing



Unscrew and remove ring nut over UV port.



Remove plug and o-ring from ring nut.



Place o-ring over the top of the quartz sleeve and push down approximately 3/4 inch to 1 inch onto the quartz sleeve.



Insert quartz sleeve into heat exchanger until o-ring seats into outlet lip. If you encounter resistance while inserting the quartz sleeve, gently turn sleeve and apply very slight force.

Step 3

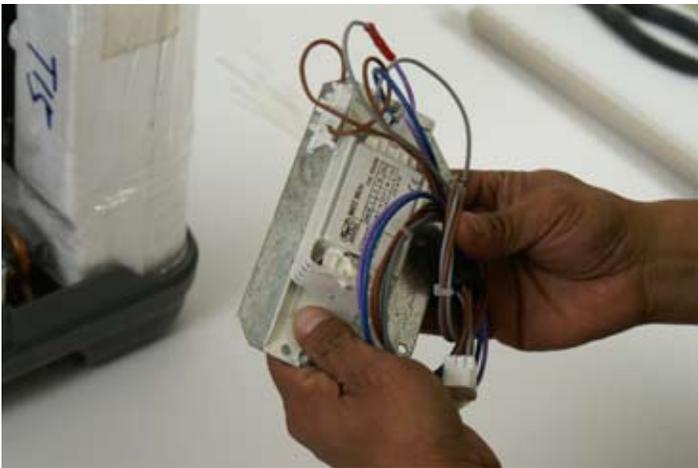
Installing The Quartz Sleeve



Put ring nut over quartz sleeve and o-ring. Tighten to seal.



Use channel lock pliers or similar to insure there is no leak.



At the end of the wiring harness is a 4-pin connector for the UV lamp and a rubber plug

Step 4

Installing The Wiring Harness



Slide the rubber plug along the wiring until it is directly against the 4-pin connector.



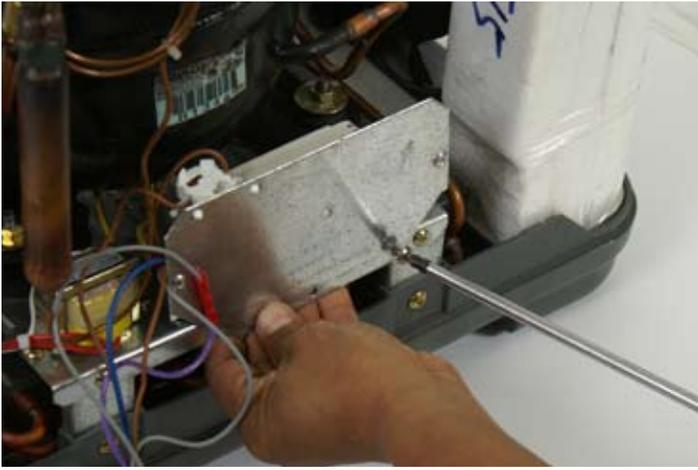
Carefully bend the copper capillary tubing to make space for the ballast. It is helpful to look ahead and see where the ballast will mount to determine how to move the tubing. Be careful not to crimp or break the tubing.



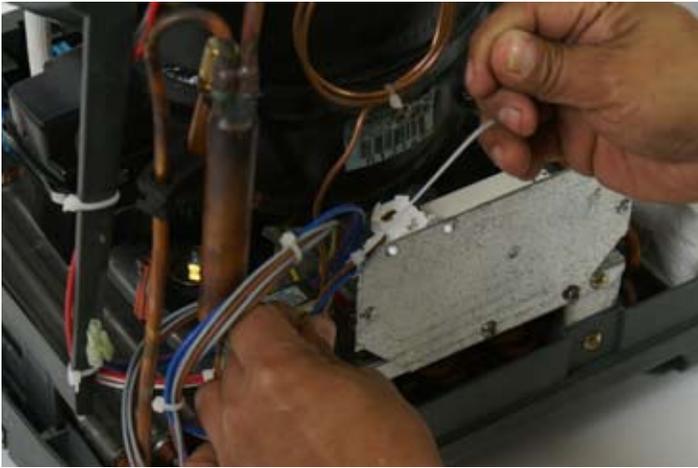
Line the holes in the ballast mounting plate with the holes in the strut supporting the compressor.

Step 4

Installing The Wiring Harness



Attach the ballast by screwing the ballast onto the strut supporting the compressor.

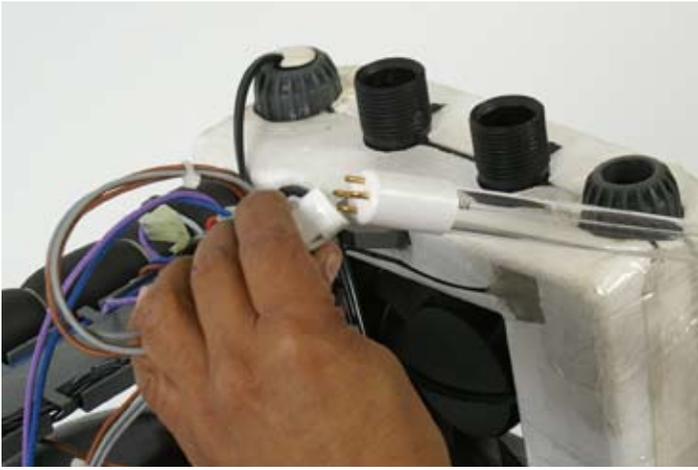


Pull the wiring harness forward and attach the harness to the ballast mounting plate with a zip tie.



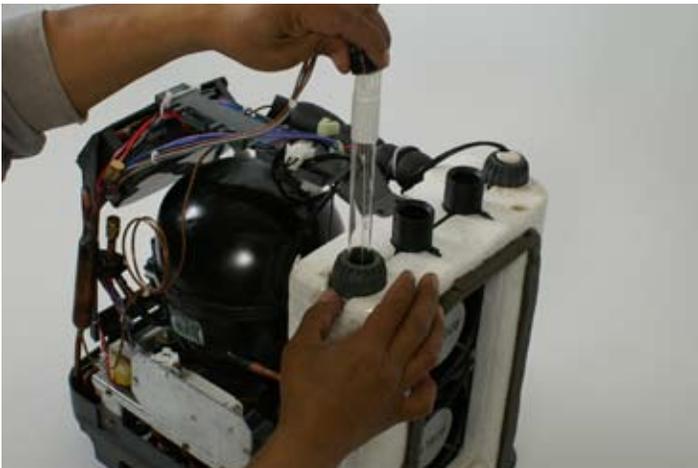
Use zip ties to gather wires together.
Clip excess plastic from zip ties with wire cutter.

(continued) **Step 4**
Installing The Wiring Harness



Take UV lamp and insert pins into 4-pin connector on wiring harness.

Note: DO NOT touch the UV lamp as finger oil will damage the lamp.



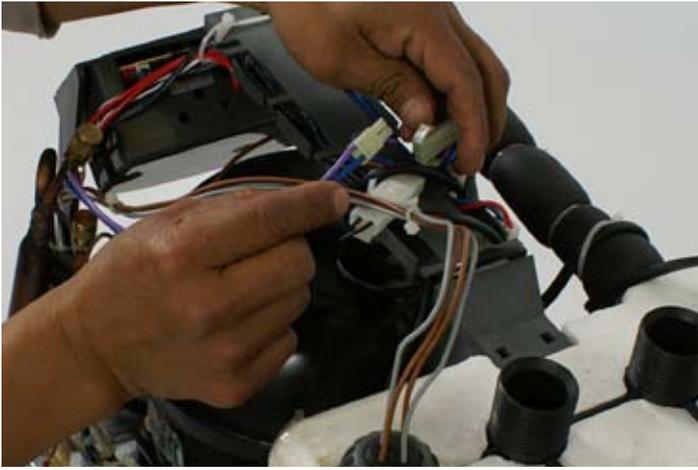
Insert UV lamp into quartz sleeve.



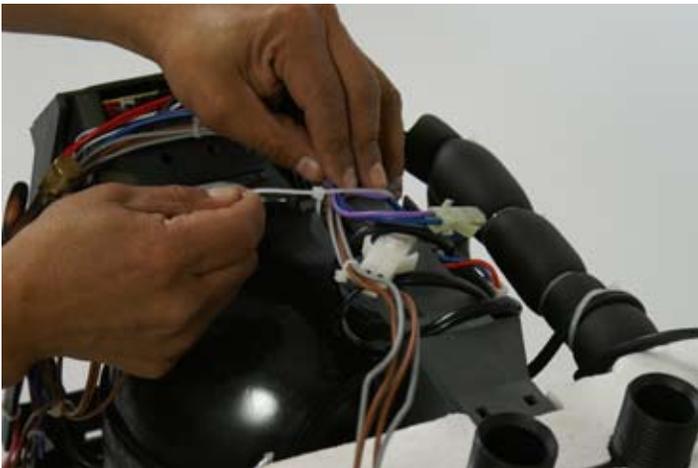
Push plug firmly into quartz sleeve until it is flush with the top of ring nut.

Step 5

Installing the UV Lamp



Connect two pin adapter on wiring harness to two pin connector mounted on top of support strut.



Use zip tie to fasten wiring harness to support strut.



Step 6

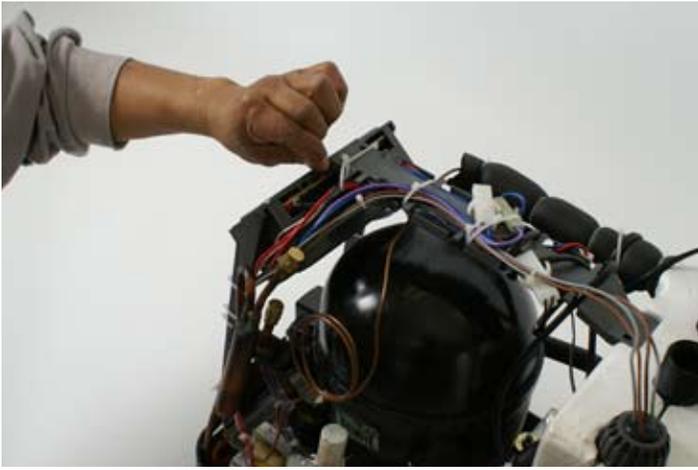
Connecting the Pin Adapter

Mount UV starter onto the ballast by inserting pins into slots and rotating clockwise 1/4 turn.



Step 7

Installing the UV starter



Plug in and **turn on** the chiller

At the top of the control panel, above the display and controls are a series of small metal prongs. Remove the plastic “jumper” from the first two prongs.

Place jumper on pins 7&8, this will reset your chiller.

Remove jumper from pins 7&8.

Now **turn off** your chiller.

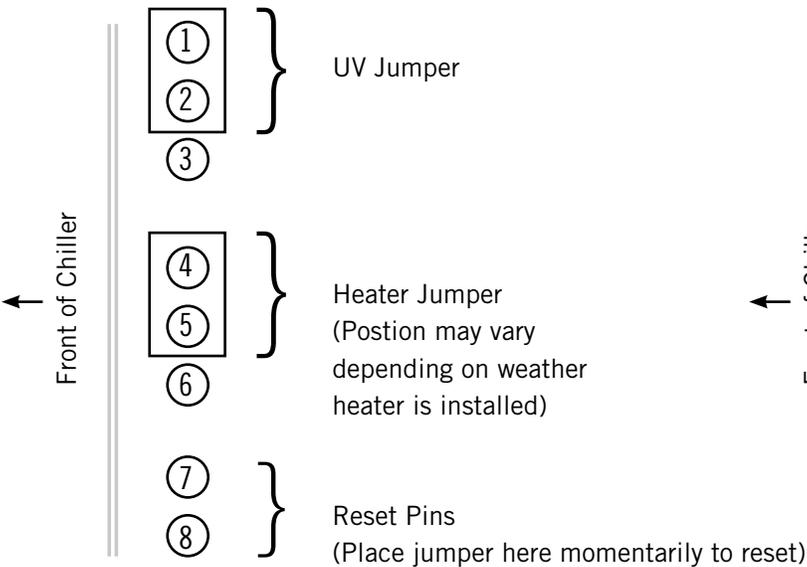
CAUTION: Leaving chiller on with no water flowing will cause the unit to overheat.



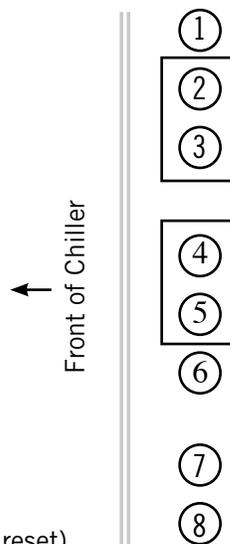
Place Jumper over pins 2&3 (see diagram below)

Note: Resting your chiller will change your set temperature to the default of 73.

Before Instillation

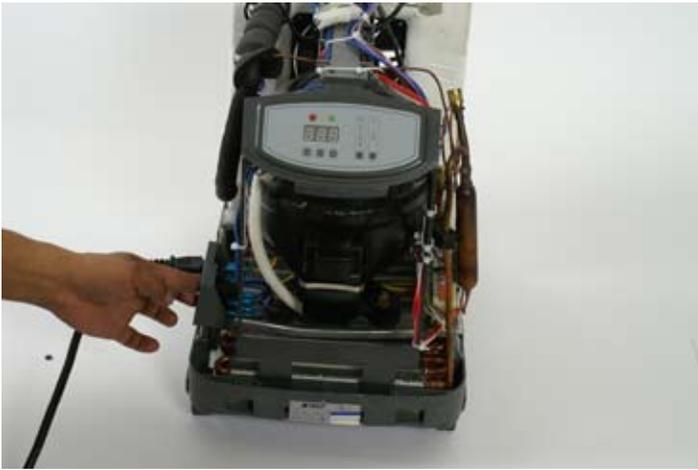


Settings Required to operate the UV lamp



Step 8

Resetting Chiller / Changing the Jumper Settings



Turn on power switch



Turn on UV by pressing button on the front panel.



You should see a glow around the rim of the quartz sleeve indicating the UV is working. Immediately turn off chiller after verifying the lamp is working.



CAUTION: Do not look directly at the UV Lamp, UV light is damaging to your eyes.

CAUTION: Turn off chiller after checking lamp - Leaving chiller on with no water flowing will cause the unit to overheat.

Step 9
Checking The UV Lamp



After verifying the UV Lamp is working, turn chiller off and unplug power cord. Lower housing over chiller.



It is important to line up housing with the control panel. If the control panel does not fit the slot designed for the control panel, housing is not seated correctly.

Press down firmly on the rear of the housing. You will feel the housing snap into place.

Replace plastic nuts over threaded inlet and outlet ports. Tighten with channel lock pliers. Replace shut off valves.

Chiller is now ready for operation. Once water is flowing through chiller, check carefully for any leaks.

You may now operate your UV sterilizer.

Step 10

Replacing the Housing