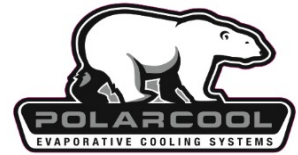




# PolarCool Float & Pump Replacement



## Warning!

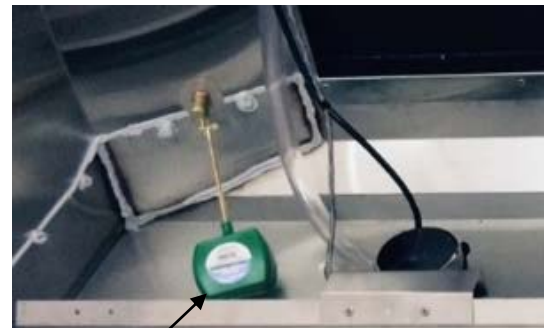
Disconnect All Power Sources Before Installing This Equipment! Failure To Disconnect Power Source Can Result In Property Damage, Serious Injury Or Death!

### Floats Mounted Through the Side of the Cabinet

**NOTE: Water source must be disconnected to remove and replace float.**

1. Before removing float, ensure electrical power has been disconnected and water supply is removed.
2. Remove the Pads. See manual 4801-5035 PolarCool User's Manual for more information.
3. Note the Float location inside and outside the unit. Inside, it is located in the far left lower corner of the pan (See Illustration 1). Outside, it is located on the lower right of the front (See Illustration 2).
4. Two people may be helpful for replacement. Loosen the float hose adapter and lock nut located on the outside of the unit.
5. Remove the float from the inside.
6. Replace with the new float.
7. Attach the float on the outside of the unit with the lock nut and hose adapter. Wrap the float threads with thread seal tape.
8. Check tightness of water hose connections.
9. Restore the water source and fill the reservoir. Ensure that the water fills to the correct level.

Illustration 1



Float

Illustration 2



Adapter

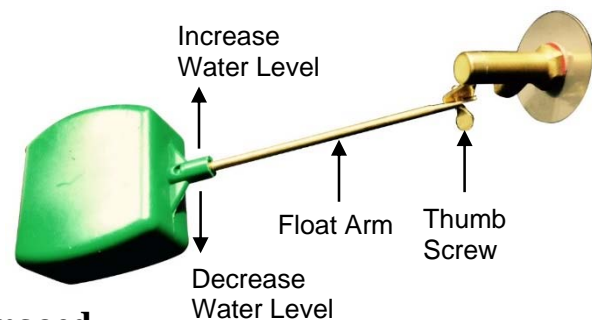
Lock Nut

**NOTE: Water level in reservoir is normally 2-1/4" ± 1". Do not allow the reservoir water to contact the pads when the reservoir water level is at the highest point.**

### Float Adjustment

1. Loosen adjustment screw as shown in Illustration 3.
2. To decrease water level in reservoir, move float arm downward as shown. Retighten adjustment screw.
3. To increase water level in reservoir, move float arm upward as shown. Retighten adjustment screw.
4. Replace pads.
5. Reconnect power and run the Pump for at least 15 minutes to soak the Pad(s).
6. Turn the fan ON.

Illustration 3



**NOTE: Do not allow the pump to run without water in the reservoir. Without water, the pump may be damaged.**



## Warning!

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### Floats Mounted Inside the Cabinet

**NOTE: Water source must be turned off and/or disconnected to remove and replace float.**

1. Remove the old float assembly from the cabinet wall. Ensure electrical power has been disconnected and water supply is turned off and/or disconnected. See Illustration 4.
2. Remove the Pads.
3. Assemble the float valve lock nut and hose fitting to the bracket as shown in Illustration 5.

Illustration 4

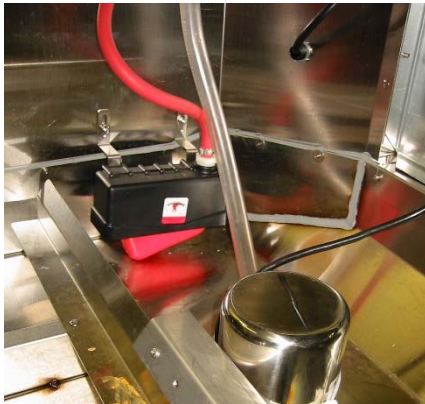
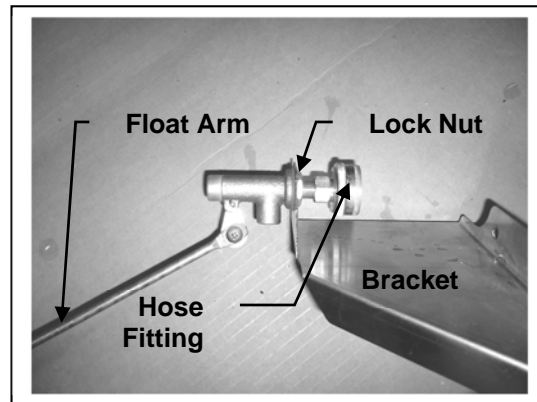


Illustration 5

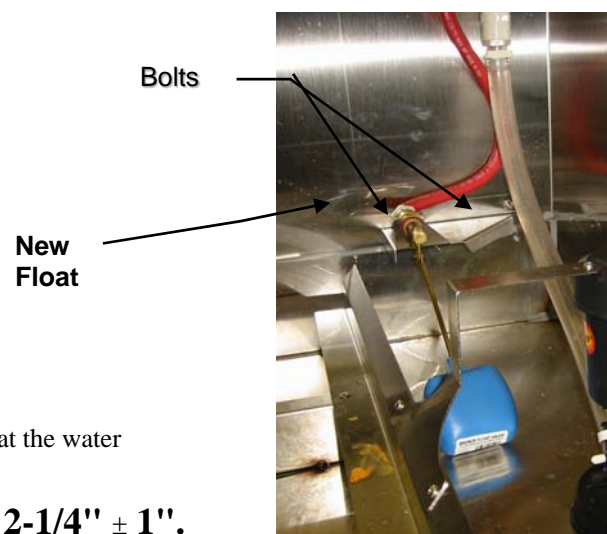


4. Attach the hose to the float assembly as seen in Illustration 6.
5. Attach the float assembly to the cabinet wall as shown in Illustration 7 with 1/4"x20x1/2" bolts and nuts.

Illustration 6



Illustration 7



6. Restore the water source and fill the reservoir. Ensure that the water fills to the correct level.

**NOTE: Water level in reservoir is normally 2-1/4" ± 1".  
See Float Adjustment if water level is not correct.**



# PolarCool Pump Replacement



Units Manufactured After May 26, 2015



## Warning!

Disconnect All Power Sources Before Installing This Equipment! Failure To Disconnect Power Source Can Result In Property Damage, Serious Injury Or Death!

**NOTE: If water is not disconnected, turn off the water hose.**

**NOTE: Do not allow the pump to run without water in the reservoir. Without water, the pump may be damaged.**

### Removing Pump

1. Before removing pump, ensure electrical power has been disconnected and water supply is turned off and/or removed.
2. Remove the Pads. See manual 4801-5035 PolarCool User's Manual for more information.
3. Remove the Control Panel and lay it as shown in Illustration 1. The Control Panel is attached to the unit with four (4) allen screws. See manual 4801-5035 PolarCool User's Manual for more information. Use a protective cover between the touch pad and unit side.
4. Disconnect the Black, Green and White wires of the Pump cable on the Control Panel as shown in Diagram 1.
5. From the interior of the unit, loosen the cable gland on the junction box and remove the old Pump cable. See Illustration 2.

Illustration 1

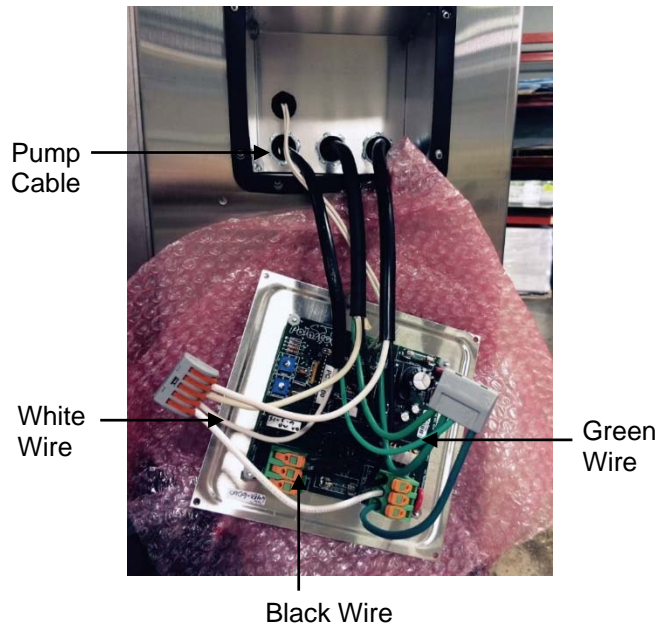
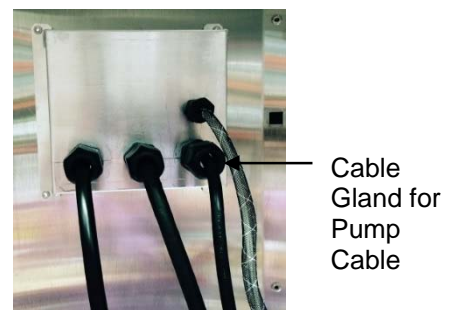


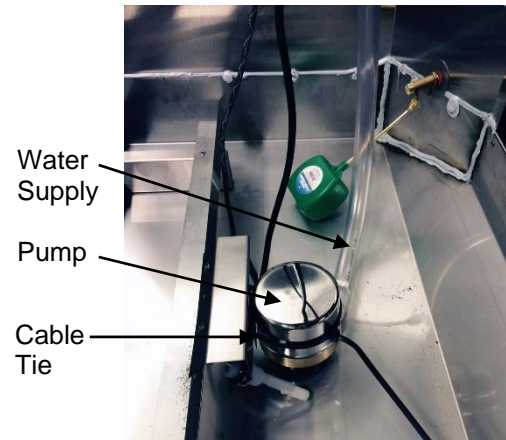
Illustration 2



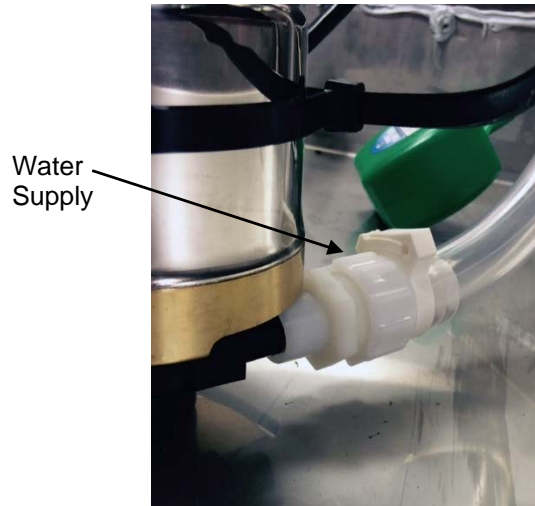
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6. Cut the cable tie that holds the Pump to the unit. See Illustration 3.
7. Remove the hose connected to incoming water supply. See Illustration 4.

**Illustration 3**



**Illustration 4**

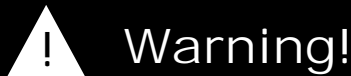


## **Pump Replacement**

Replacing the pump is done in the reverse order as removing.

1. Connect the hose from incoming water supply. See Illustration 4.
2. Attach the Pump to the unit with the supplied Cable Tie. Place the pump as shown so the pump is touching the bottom of the PolarCool as shown. See Illustration 3.
3. Insert the Pump cable through the cable gland on the junction box. See Illustration 2.
4. Connect the Black, Green and White wires of the Pump cable on the Control Panel as shown in Diagram 1.
5. From the interior of the unit, tighten the cable gland on the junction box to secure the Pump cable. See Illustration 2.
6. Attach the Control Panel to the unit.
7. Check tightness of water hose connections.
8. Replace the Pad(s).
9. Restore the water source and fill the reservoir.
10. Reconnect power and run the Pump for at least 15 minutes to soak the Pad(s).
11. Turn the fan ON.

## Units Manufactured Before May 26, 2015



# Warning!

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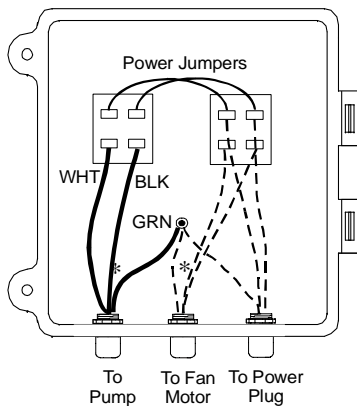
**NOTE: If water is not disconnected, turn off the water hose.**

**NOTE: Do not allow the pump to run without water in the reservoir. Without water, the pump may be damaged.**

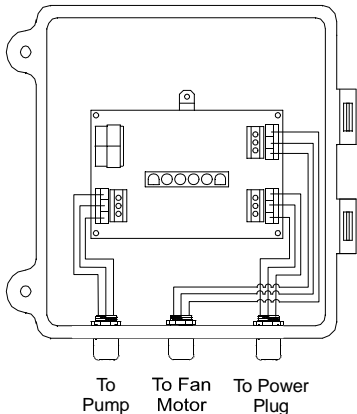
### INSTRUCTIONS

1. Disconnect all electrical power to PolarCool. (i.e. Unplug power cord).
2. Remove cooling pads.
3. Refer to Figure 3 at lower right. Open electrical wiring box.
4. For Single speed pump, refer to Figure 1 below. For variable speed pump, refer to Figure 2 below. Carefully disconnect pump wires only from terminals. Pull wires through conduit and out of electrical box. Unbundle pump power cord from other cords so that pump can be removed.
5. Disconnect water hose from pump. Keep clamp for later use in Step 11.

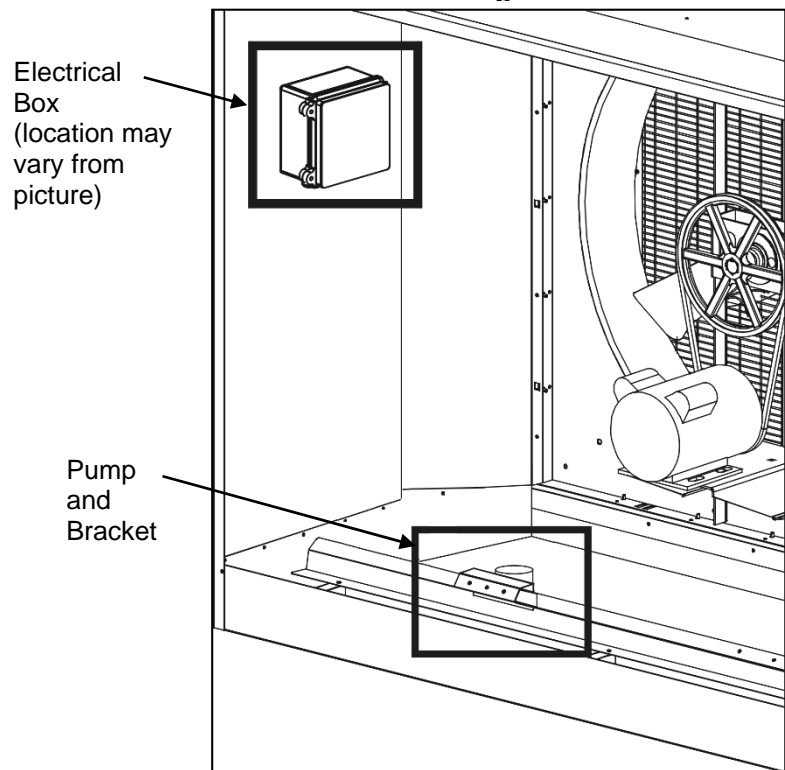
**Figure 1 - Single Speed Pump**



**Figure 2 - Variable Speed Pump**



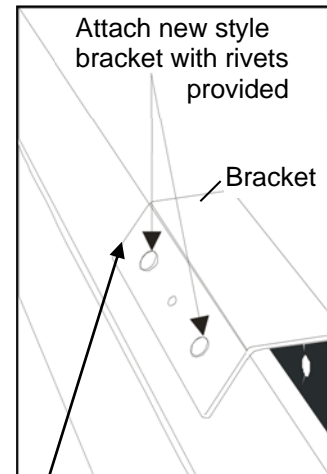
**Figure 3**



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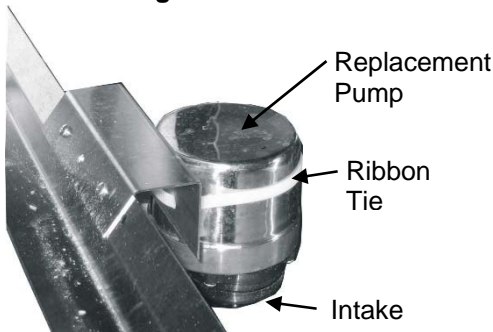
- 6A. For the old style pump see Figure 4. Loosen screws and nuts holding the old style bracket. Remove old pump and bracket.
- 6B. For the new style pump see Figure 5. Cut the ribbon tie and remove pump.
7. Attach new bracket, if required, with rivets provided as shown in Figure 4.
8. Set pump on floor of PolarCool in front of bracket. NOTE: Make sure intake side of pump is at bottom.
9. Insert a ribbon tie, provided, through two holes of bracket.
10. Wrap ribbon tie around pump as shown in Figure 5. Securely tighten ribbon tie to anchor pump into position.
11. Attach water hose to hose fitting on pump. See Figure 6.
12. Make sure all electrical power is disconnected from PolarCool. Stretch out pump power cord. Insert pump power through conduit of electrical box to inside of electrical box.

**Figure 4**

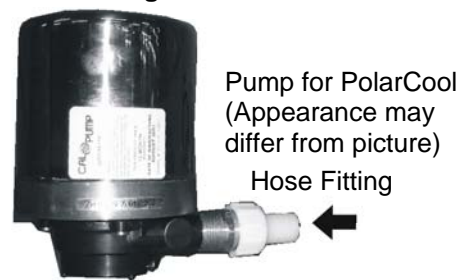


Old style bracket uses nuts and

**Figure 5**

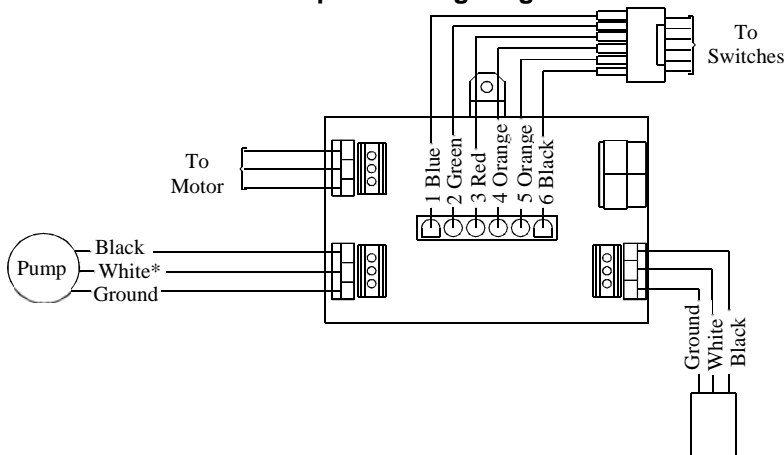


**Figure 6**



13. Connect pump power cord to terminals of electrical box as shown in wiring Diagrams. See Figures 7 or 8.
14. Close electrical box and securely tighten lid of electrical box.
15. Bundle pump power cord with other cords using ribbon ties.
16. Reconnect power and water.
17. Test new pump for proper operation.
18. Replace cool pads.
19. Installation complete.

**Figure 7**  
**Variable Speed Wiring Diagram**



**Figure 8**  
**Single Speed Wiring Diagram**

