



Hugh the Ducky's



Installing Another Pump

"In-Floor Heating Made Simple"

Adding another pump is Easy with the HUG Hydronics System!

The HUG Hydronics Tank is equipped to hold up to 10 pumps.

Pumps #s 8 & 9 can be used for floor loops or additional heater source.

Pump #10 is designated solely for a heat source.

For instructions on adding another heater source please see [Hugh the Ducky's Guide to Multiple Heat Sources.](#)

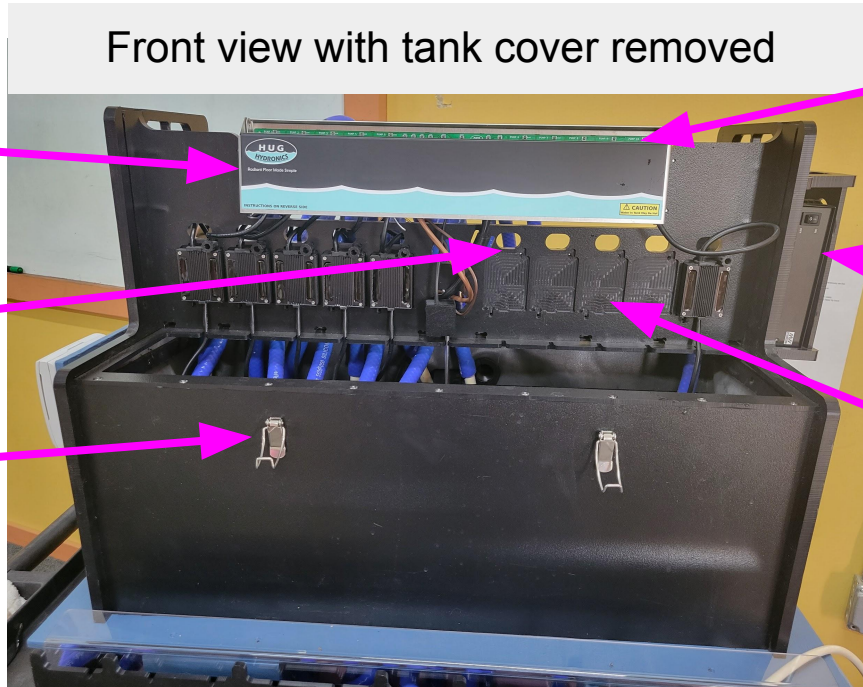


Your Loop Pump Kit

no tools needed (1090-50-AS)



HUG Hydronics System



Control Board with cover closed

Top of control board has indicator lights for function checks

Power Supply

Grooves for Pump Cord Boxes

Holes for excess wire

Tank Latch



Caution: Water may be hot (if the system is already in use). If it is, you may turn off the system at its power supply and wait for it cool before proceeding.





In the event that a loop is modified or a replacement pump is put onto a loop that is installed at a level higher than the HUG hydronics tank it is likely that the loop will begin to drain into the tank. This could possibly result in an overflow. To avoid this clamp or cap those loops while making adjustments to your installation.



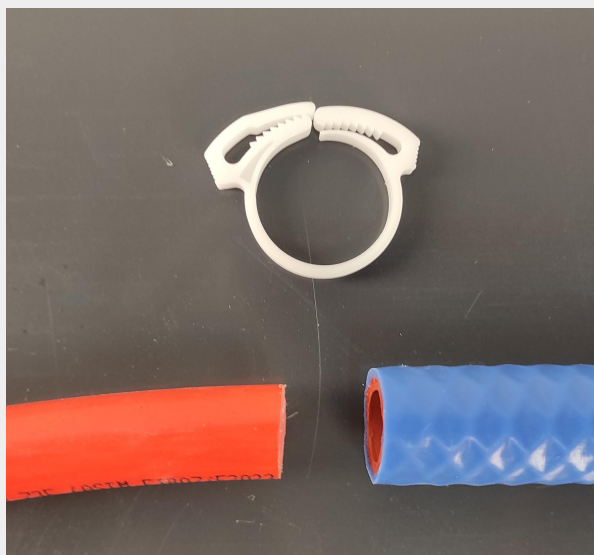
Installation Instructions

- 1) Turn off the HUG Hydronics system by the power switch on the power supply.
 - a) Check to make sure the “Power” light on the control board is off.
- 2) Remove the tank cover.
- 3) In your tank choose a pump location- usually the first one open from the left.
 - a) Use your planned location to choose the holes to run the blue hoses through.



Decide where you will put the new pump. Most common will be the first open on the left.

3) Connect the blue hose with 2 blue ends to the new loop's pex pipe.



Orange pex pipe, Blue pump hose and a clamp

Slip clamp onto a hose.

Insert pex pipe into blue hose.

Tighten clamp over where they connect.

To unclamp the hoses, use a pliers to pull one side of the clamp backwards until it unclips.

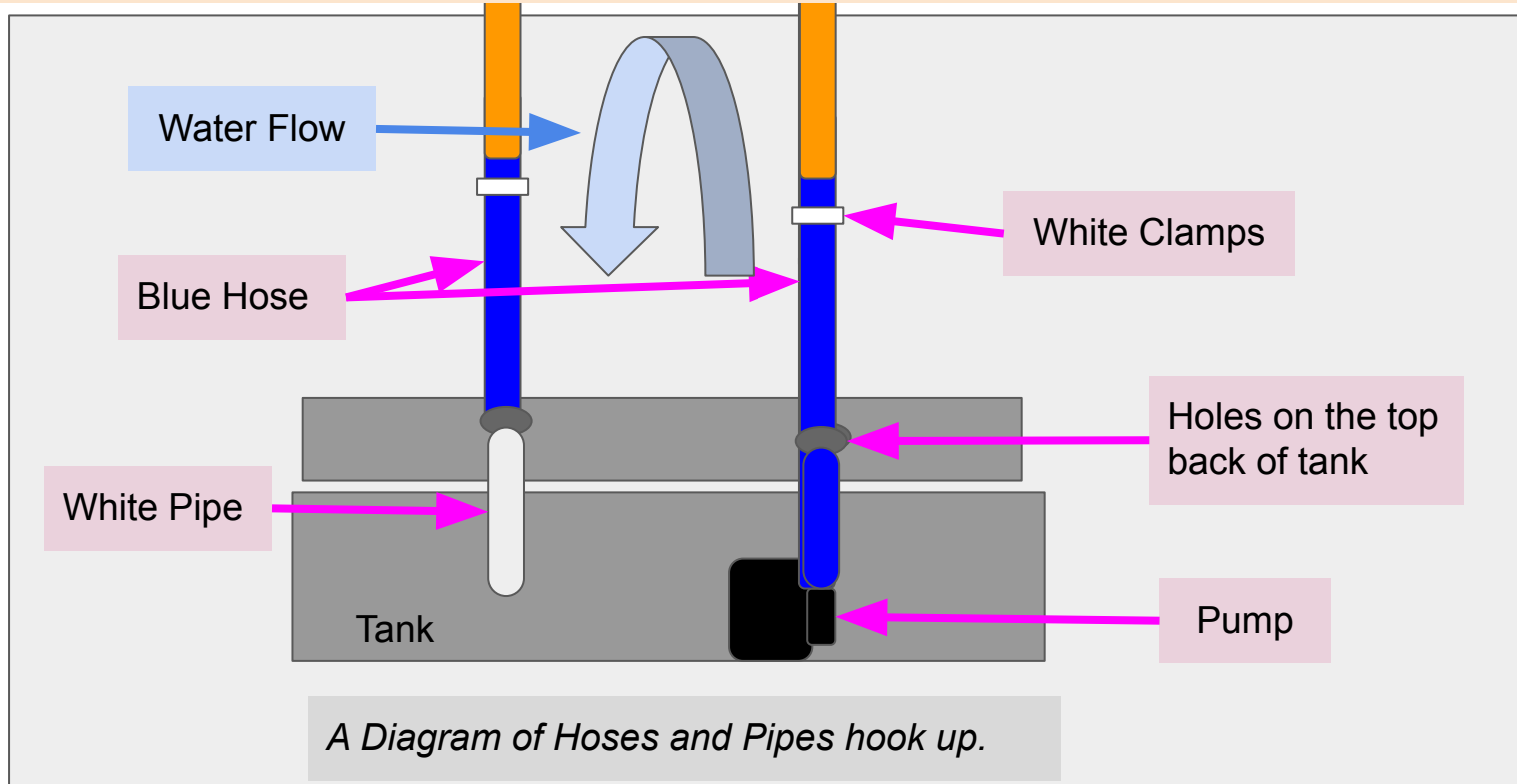


Squeeze sides of clamps together with slip joint pliers in wide mode.

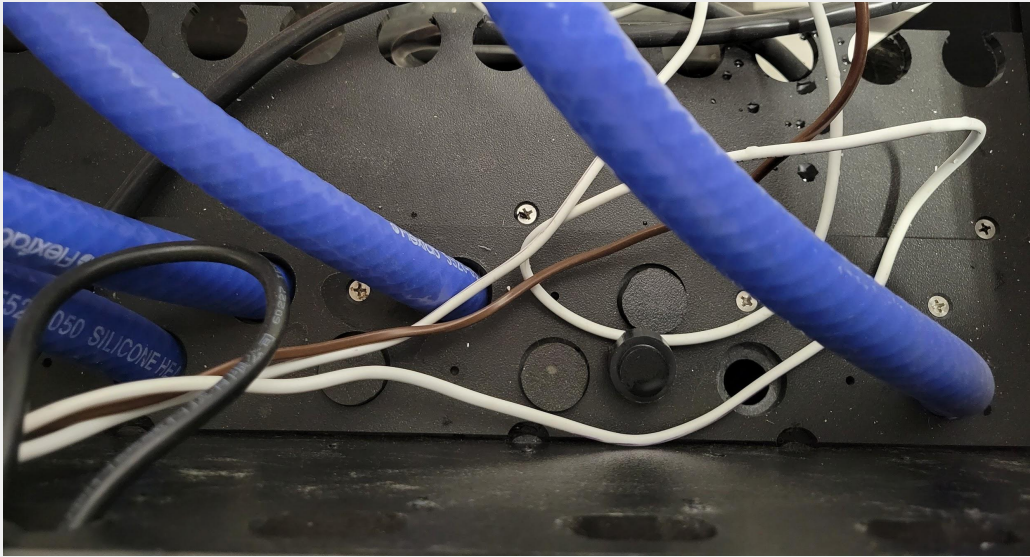


A securely connected blue tank hose to an orange pex pipe.

3b) Connect the blue end of the blue hose with the white pipe to the return side of the new pex pipe loop.



4) Run the unconnected end of the blue ended hose into the top of the tank through the chosen hole number.



The view from the top of the right back of the tank. Run the hose from the new loop pump through the chosen hole. The hole plugs pop out easily.



The view from inside the tank with the hose you just inserted.

5) Connect this blue hose in the tank to the pump



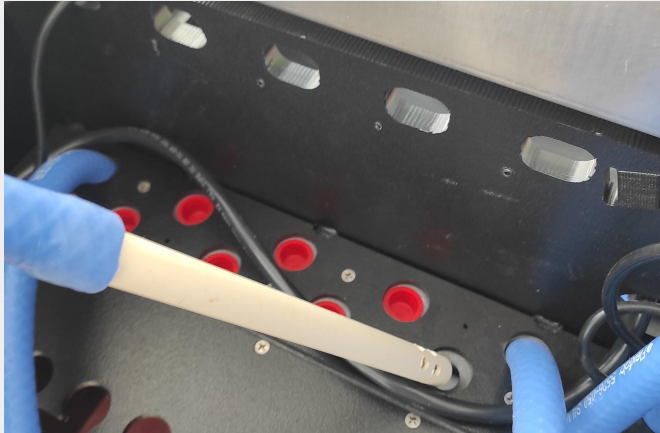
Notice the hose goes on the pump's output and not its nose.

Slide it all the way on to the pump's hose attachment.



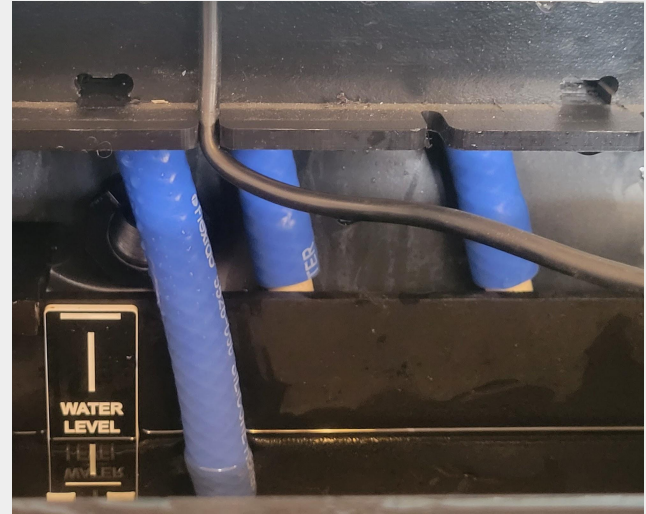
Push the blue hose on to the pump's output connector until it is firmly attached.

6) Stick the white pipe end of the return hose into the hole for that pump's return hose



Stick the white pipe end into the chosen hole at the back of the tank.

Push it into the tank until it will go no further.



The pipe end of the hose should be standing up behind the half wall at the back of the tank.

7) Stick the nose end of the new pump into the groove

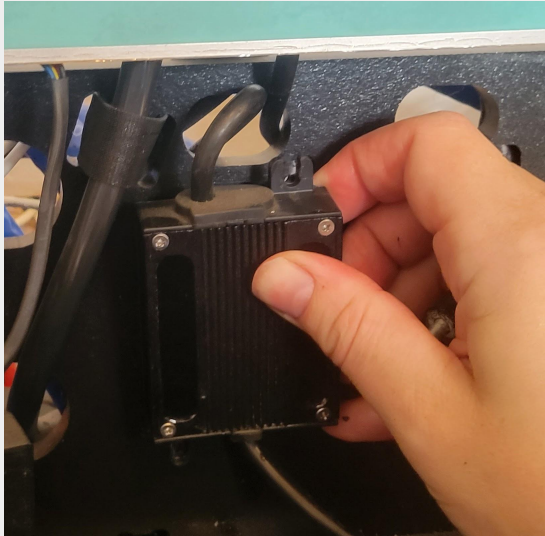
and set it down in alignment with the other pumps. If it doesn't want to sit down smoothly, pull the blue hose it is connected to until it does.

Put the pump's nose into the groove and gently wiggle until it sits squarely in its space.

If needed pull on the blue hose to give enough length for the pump to sit comfortably in its space.



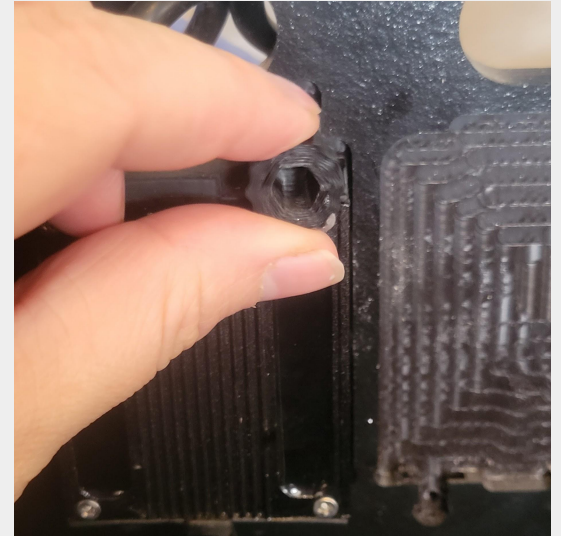
8) Slide the box on the pump cord into its groove below the control board.



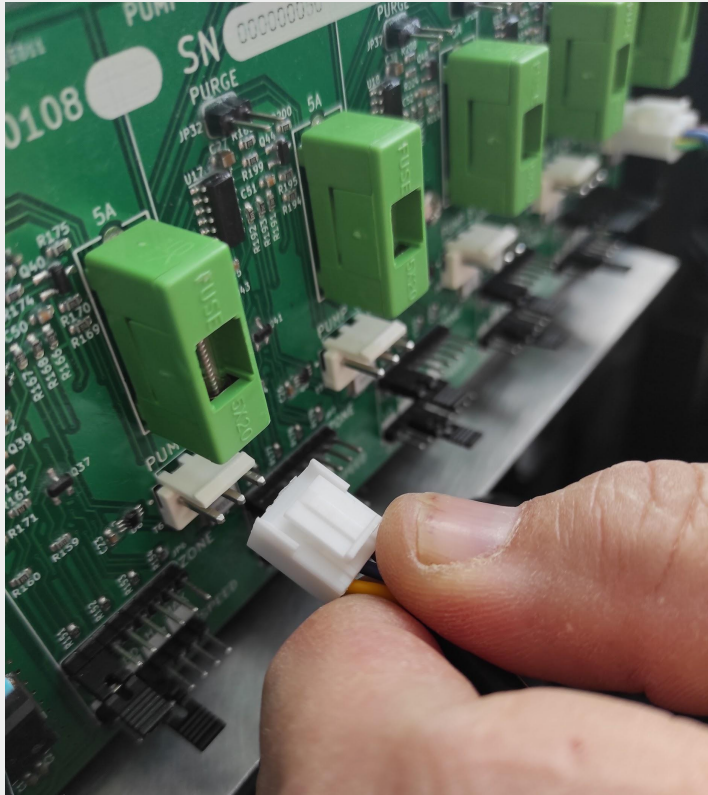
Slide the box down into the groove.

Just below the control board are the grooves for the box on the pump cord.

Slide the box in from the top until the bottom is securely in place and then use the thumb screw to screw it in place on it's top right side.



Use the thumb screw to keep the pump cord box in place.

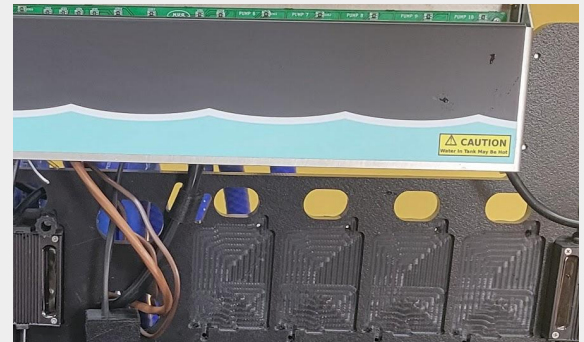


Plug the pump into the white plug on the control board.

9) Plug the pump into the white pump plug on it's section of the control board.

The holes between the pump cord boxes and the control board can be used to pull any excess wire through.

Pull the excess wire from the pump cord through these holes



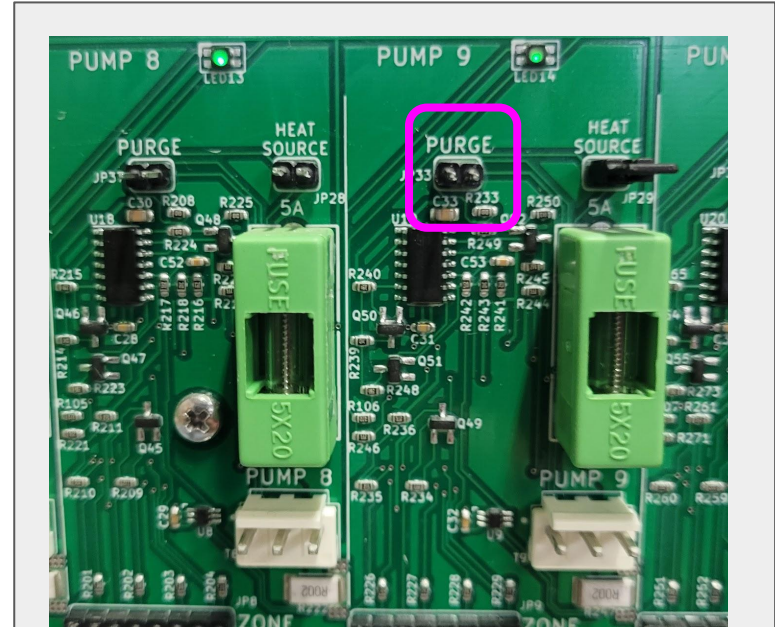
10) Purge the Pump

Turn on the Hug Hydronic Tank by using the switch on the power supply.

On the control board, put a jumper on the “purge” pin for the new pump. The air will move out as the water fills the loop.

It is done when the gurgling sound ends.

Remove the jumper from the “purge” pin.



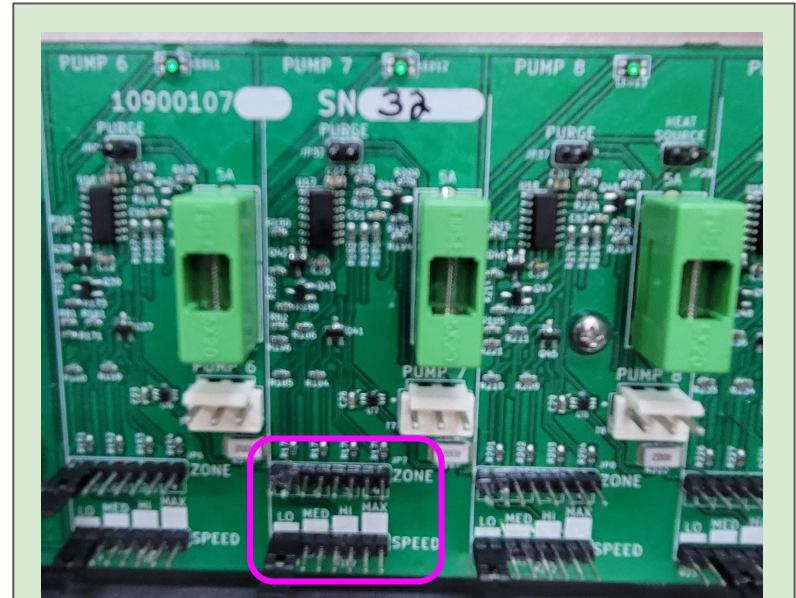
The purge pins for pump #9 are circled in purple. Put a jumper on the purge pins to purge the pump.

11) Choose the thermostat zone and speed settings for your new pump.

Use the jumpers on the control board to choose the thermostat zone and speed setting desired.

Standard Speed Settings:

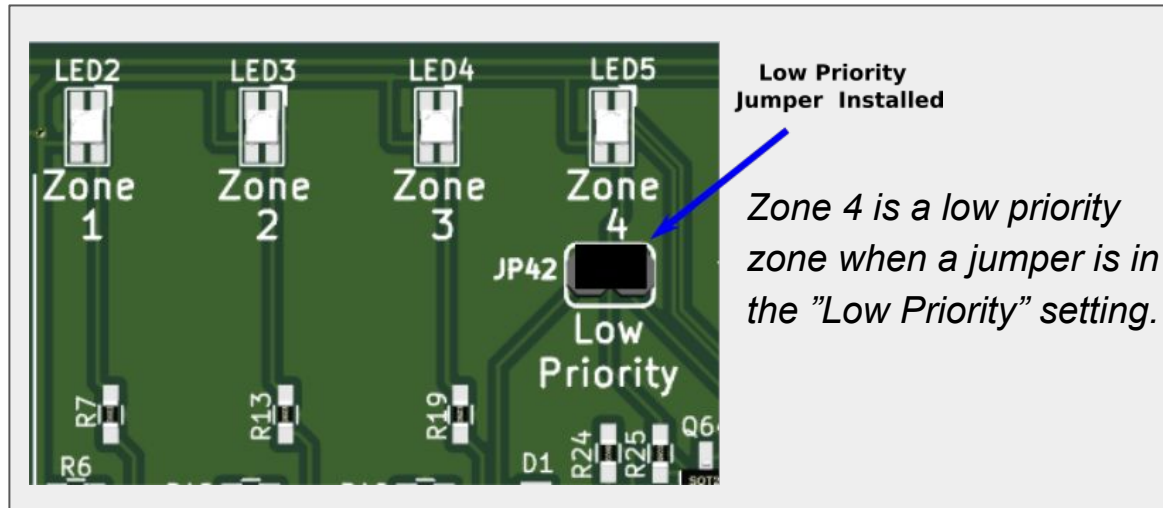
- single loop = low
- double loops = medium



A close up of the control board, a section for 3 pumps. The jumpers are used near the bottom. The higher row selects the thermostat the pump is connected to. The lower row selects the speed for the pump.

A Low Priority Zone

You may choose thermostat zone 4 to be a low priority so it will only heat after others are warm. Connect that thermostat wire to be zone 4 and put a jumper on the “Low Priority” pins. If Zone 4 is in low priority mode and is calling for heat while any other zone is calling, then the “Zone 4” LED will glow dim yellow to indicate that it wants to heat now, but it is overridden.



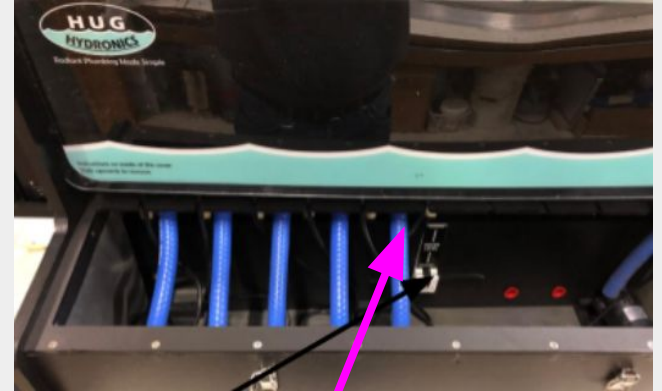
12) Finishing Details

Add water to the tank as needed to reach the “full” level, about 3 gallons per loop.

Close the tank and lock the lid into place.



Congratulations!
You're Just Ducky



The water level guide is in the tank below the control board. Use this to judge the amount of water to add.

Hugh the Ducky Tech Line

Feel free to call or email our **Hugh the Ducky Tech Line** for personal assistance.

HUGH@hughydronics.com- include pics of your set up/question please.

218-587-5001

