



FREEZE PROTECTION

Overview:

The basic strategy for protecting your pool against a hard freeze centers on simply circulating the water through the plumbing lines.

It is very difficult to freeze moving water. In most cases our temperatures don't get cold enough (for long enough) to use your heater in this effort. Just simply keep the pumps circulating. For those clients with mechanical time clocks, simply remove the "off" pin from your timer and allow the motors to run 24/7. For those with automated control systems, see below.

Automated Systems:

When we installed your automated system, we enabled the freeze protection mode for each circuit that requires it. When the temperature reaches 35° or below, these circuits will automatically come on. If you want to verify these settings please continue reading below.

The following recommendations and procedures are for Pentair Easytouch and Intellitouch systems. Many other brands operate in a similar manner, but the menu trees may be slightly different.

ScreenLogic users:

Unfortunately, the option to view or change your "freeze protection" settings are not available on the main ScreenLogic app. However, there are three additional ways you can check your system for freeze settings:

- 1) Download and install the Screenlogic **software** to a desktop or laptop computer. The software can be found here: <https://www.pentair.com/en-us/education-support/residential/product-support/pentair-pool-and-spa-software-downloads.html> This software is a bit more powerful than the app on your phone or tablet and has options to view each circuit and see which items are enabled for freeze protection.
- 2) Download and install the Screenlogic Configuration App from Google Play or Apple Store to your tablet or smartphone, login with the same credentials as you do with Screenlogic, look under the "setup circuits" option to review the "on with freeze" selector switch for each circuit. (see below which items should be selected)

It should look like one of these:



- 3) For Easytouch owners, you can access the needed information from the display screen on your exterior control panel by the equipment pad. Open the main panel door to access the LCD screen and follow this menu tree: *Menu>Settings>Circuit Functions*. Then use the up/down buttons to scroll through all your circuits to determine which ones have freeze protection enabled.



Pool or Spa Mode?

For those with automated control systems and Pineloch built pools, we would like you to keep your pool operating in “pool mode” during a freeze. We have plumbed your pool so that it provides circulation to both your spa and pool plumbing lines when in pool mode.

If “spa mode” is enabled for freeze protection, the automatic valves will rotate between the pool and spa plumbing every 15 minutes. This is not necessary due to how we originally setup your plumbing.

Please verify that the “spa” circuit is **disabled** for freeze protection and that the “pool” circuit is **enabled**.

Which Circuits?

Now that you can find and access the “freeze protection” selectors through various means listed above, which circuits should be enabled for freeze protection?

- **Pool- Enable**
- **Spa- Disable**
- **Master Cleaner- Disable** (this is in reference to Pentair, Kreepy Krauley, and Polaris type roving cleaners) These cleaners have water flow through their booster pumps provided by the main pool pump which is enabled above (through the pool circuit) Therefore it is not necessary to also run your cleaner during a freeze. It is still getting some water flow, even when not moving.
- **Cleaner/Paramount- Enable** Paramount in-floor cleaning systems utilize a pump independent from the main filtration pump, therefore, they should be enabled for freeze protection.
- **Air Blower- Disable** If the air blower is engaged and active during a freeze, the most likely result will be that the air will bubble up the side walls of the spa and create a mess, soaking your coping and surrounding decking. We would expect more damage from this water freezing around your coping/decks than we would the potential damage to this one plumbing line. For these reasons we feel the risk to this one pipe is less than the expected damage you might see from allowing it to run.
- **ALL other waterfeatures- Enable** Most waterfeatures are plumbed with an independent pump and should be active during a freeze.
- **Water bowls-** If you have a water bowl(s) it will depend on their installation whether or not you should run them during a freeze.
 - If your water bowl(s) normally drains down when its pump is off and refills itself during normal operation, you don't need to run this as part of your freeze protection and can **disable** its control circuit.
 - If however, your bowl was plumbed with a check valve system that *holds* the water in the bowl even when it's not operating, then you should **enable** the freeze protection for the circuit that runs the bowl(s)

If you have any specialty features that fall outside of the items discussed above, let us know and we can determine if they should be enabled for a freeze condition.