
ATLANTIC ICE

MONO PRO

⚠ WARNING

DROWNING

To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times and after consulting a physician.

Risk of Accidental Drowning. Extreme caution must be exercised to prevent unauthorized access by children.

Tub Cover is not a Safety Cover.

ELECTRICAL

This product is provided with a ground-fault circuit-interrupter integrated with the power plug at the end of the cord. The GFCI must be tested before each use. To perform the test, first ensure the *Power Switch* on the back of the *Chiller* is up in the "on" position and then press the orange "T" Test Button above the Power Switch. The *Power Switch* should flip to the down "off" position. Now flip the *Power Switch* back up to the "on" position. If this test does not cause the Power Switch to turn off, do not proceed, and contact support for assistance.

DO NOT USE IF THIS TEST FAILS

Do not handle electrical outlet with wet hands.

Do not permit any electric appliance within 5 feet of this product.

Only use this product with 120v/60hz electrical circuit; outlet must be grounded appropriately.

Never submerge machine or expose to direct water spray.

HEALTH

Elderly persons, pregnant women, infants, and those with health conditions requiring medical care - especially cardiovascular and neurological - should consult with a physician before using this product.

Hot and Cold Water Immersion while under the influence of alcohol, narcotics, drugs or medicines may lead to serious injury and is not recommended.

Do not use alone.

Long exposure may result in hyper or hypothermia, nausea, dizziness, or fainting.

Do not exceed 5 minutes in cold or 30 minutes in hot water; excessive exposure may be harmful to health.

Always enter and exit the tub slowly and cautiously. Wet surfaces are slippery.

Receiving your Mono Pro

Your Mono Pro will arrive on a single pallet.

Inside you will find a pre assembled barrel tub with steps

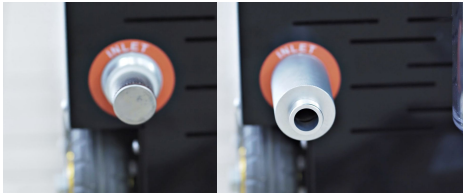
- 2 people required for set up
- Carefully cut the pallet strapping
- Lift off the lid and chiller
- Remove pallet box lid and lift steps out
- Gently set the pallet box onto its side and slide the tub out of the box. Make sure no metal parts of packaging are sticking out to scrape the tub.
- Note the location of the drainage pipe and point to your desired location
- If you are adding a hose or drain connection you can do that now.
- Set the tub on a level surface
- Peel off any tape/packaging
- Remove caps from inlets and outlets
- Set steps at desired location

Connecting the chiller

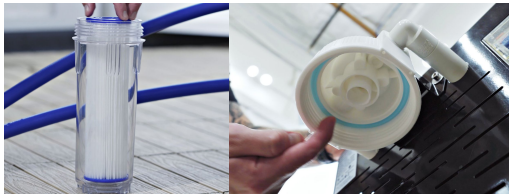
Inlet filter needs to be installed to prevent debris entering the chiller

Insure a rubber O ring seal is in place before screwing on the filter

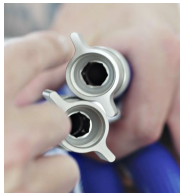
Screw on the filter and casing - hand tight, no tools



Insert paper filter into the housing and connect to the chiller, again hand tighten. Ensure rubber O ring is in place.



Ensure hose connections have rubber O rings inserted



Connect one end of a hose to the outlet on the chiller, this should be connected to the top connection on the barrel.

Connect the second hose to the inlet on the chiller and the bottom connection on the barrel

You can now Fill the tub: Ensure both the inlet and outlet in the tub are submerged before powering on.

Power on

- Once the tub is filled you can plug in the chiller. Ensure plug, socket and or extension leads are in waterproof housing
- Never touch the plug with wet hands. Keep plug off the ground and away from water at all times.
- Test breaker on the chiller. Ensure the trip switch is up. When you click the TEST button it should flick down to the off position.. If it is not working, do not use the tub and contact support.
- Flick the trip switch back to the on position.
- You can now power up the chiller. There is a master switch at the back of the chiller. Turn this on now.
- Press the power on button on the display and let it power up. Once you have a solid screen that displays the water temperature you can select your desired temperature.

Leave the chiller alone for up to 3 mins for the pump to activate.

Once the pump is activated and there is water flow through the hoses you can select your desired temperature etc.

01 **POWER BUTTON**
Press and hold for 2 seconds to turn the Chiller On or Off.

02 **MODE BUTTON**
Press and hold for 5 seconds to switch between Fahrenheit and Celsius temperature units.

03 **SETTING BUTTON**
Press and hold for 1 second to change temperature setting.

04 **WIFI ACTIVATION BUTTON**
Press and hold for 10 seconds to engage WiFi setup mode.

05 **UP ARROW**
Press or hold to increase set temperature after pressing Setting Button.

06 **DOWN ARROW**
Press or hold to decrease set temperature after pressing Setting Button.

05 + 06 **UP AND DOWN ARROW**
Press and Hold for 5 seconds to engage Child Lock.

07 **TUB TEMPERATURE**
Shows the current temperature of the water coming from the Tub.

08 **SET TEMPERATURE**
Shows the desired temperature setting for the Tub.

09 **WATER FLOW INDICATOR**
Shows the water flow of your Chiller in liters per minute.

10 **MODE INDICATOR**
Shows the mode the Chiller is operating in (always "Default" for normal function).

11 **DEFROST INDICATOR**
Shows if the chiller is defrosting. Will display "On" or "Off".

12 **COOL/HEAT SYSTEM INDICATOR**
Shows if the Chiller is actively cooling ("Cool"), heating ("Heat"), or on standby (blank).

13 **COMPRESSOR STATUS (FLAME AND SNOWFLAKE)**
Shows when the compressor is running.

14 **WIFI INDICATOR**
Shows Wifi status. Solid for connected, blinking for setup mode. No logo for disconnected.

Water Circulation Troubleshooting

Step One

If your *Chiller* is experiencing issues with establishing water circulation, or you see the *Control Panel* code shown in Step 1 Reference please use the following steps to diagnose and resolve;

The code above displays when the *Chiller* is first started up and while the system is priming with water for circulation. This screen is generally normal to see and establishing water circulation can take up to 3 minutes, especially if the *Chiller* and/or *Chiller Hoses* were recently drained of water.

If after 3 minutes the machine has still not established water circulation, please check each of the following. The *Chiller* can be tested in between each step.

A- Ensure that the *Tub Fitting Valves* are in the open (parallel) position and hoses are connected without leaks.

B- Check that the *Water Filter* and *Inner Water Strainer* are clean and clear of debris. You can find instructions to replace and clean these parts at our **Maintenance Page.** It is a good idea to proactively replace the *Water Filter* even if it looks clean as minerals can block the filter but may not show discoloration.

C- Check the *Hose O-Rings* on each end of the *Hose Connection Fittings*. They should be fully seated at the bottom of the threaded fitting and when attached, the connection should only be tightened until a little resistance is felt and hose no longer wiggles at connection point. The green *Chiller "Water In"* fitting is especially sensitive to overtightening. Do not use tools to tighten.

D- Remove the *Lower Water Filter Housing* and ensure that the *Filter Housing O-Ring* in the *Upper Water Filter Housing* (white part) is present and not damaged. If you have a purple tinted *Lower Water Filter Housing,* check that the lower *O-ring* is present as well. When reinstalling the *Lower Water Filter Housing*, fill with water to the top and tighten only until a little resistance is felt. Do not overtighten or it will deform the gasket and potentially damage the *O-Rings.*

E- Ensure the *Strainer O-Ring* on the *External Water Strainer* is present and not damaged. Replace if necessary from the spare parts kit. The *Water Strainer Cover* should be hand tightened until it stops. See image below.

If the steps above do not resolve the issue, please move on to the next step.

Step Two

Check Valve (Outlet Port)

There is a *Check Valve* inside the outlet port on the *Chiller*. This can become stuck in the closed position and prevent water from flowing through the unit. If you notice that the *Chiller* is trying to prime but no bubbles are coming out from the *Tub Water-In Fitting*, this is a possible resolution. You will first close the *Tub Fitting Valves* by rotating to the Closed (perpendicular) position to the *Valve* body.

Then Remove the *Outlet Chiller Hose* and check to see if the little pin in the valve is stuck outward (toward you). If it is stuck outward, use a small screwdriver and press on it gently. If it was indeed stuck, you will feel and/or hear a little click that indicates the *Check Valve* has returned to position. Reinstall the *Chiller Hose*, open the *Tub Fitting Valves*, and try *Chiller* again.

Valve on outlet port on chiller

Step 3

Air Trapped in Unit

If you have recently taken a *Chiller Hose* off of the *Chiller or Tub* (For example, to clean the Inner Water Strainer), it is possible that an air lock can be created within the *Chiller*. We will want to release this air lock in the system by loosening the *Lower Water Filter Housing*. Loosen the housing until it is completely off, fill up with water to the top, and reinstall.

Other Troubleshooting

No waterflow / "E3" Error: Press [Mode - second button] to restart water circulation cycle; Check to ensure *Chiller Hoses* are connected properly and *Tub Fitting Valves* are in the open (parallel) position; Check *Water Filter* condition- replace if discolored; Check to ensure Water Inlet and Outlet fittings are not blocked.

Hose Connections Leaking: Check to ensure gasket is in place; Disconnect and reconnect *Chiller Hose*, ensuring snug hand tight connection; Replace *Hose O-Ring* with new one.

Tub Deflates Immediately After Inflating: When inflating, ensure that the *Inflation Valve Pin* is in the depressed (out) position prior to hooking up the *Inflation Hose*; if unsuccessful, *Tub Inflation Valve* may be damaged and require replacement.

Tub Deflates Over Time: Temperature change may cause air pressure in *Tub* to change slightly, re-inflate accordingly; If deflation continues regularly, an air leak may be present. Air leaks can be found by using soapy water to locate the leak, and then the included repair kit can be used to prevent further leaking.

Chiller Will Not Turn On: Ensure *Chiller* is plugged into an active power source; Check *Chiller* Power Plug GFCI has not tripped by cycling Power Switch Off and then On. Test GFCI functionality by pressing the "Test" button, and reset to On position. Press the Power On button on the *Control Panel* to turn on the *Chiller*.

Water Is Dripping From Chiller: During heating mode, condensation may develop inside the *Chiller* unit in certain high humidity conditions. A small amount of water drainage from the *Chiller* is normal in this circumstance; Check *Hose Connections* are secure and that they are tight and have O-Rings in place; Check *Water Filter Housing* connection and that it is tight and has the *Filter Housing O-Ring* in place; Check *Drain Plug Cap* is in place and tight.

When Temperature Set Point is Increased, Chiller Does Not Stop Running: If changing from a low set point to a higher one, or vice versa, the *Chiller* will switch from Cooling mode to Heating mode to reach the new set point. The *Chiller* will also cool or heat to a temperature just beyond the set point to ensure the *Chiller* does not cycle on and off excessively, and will restart automatically when the water temperature gets outside of the set range by a few degrees Fahrenheit.

Water Has Become Cloudy - Check filter element and replace if discolored; Add 60cc (2oz) of Oxidizer to water to break down organics and allow to run for 2 hours; Replace water if all above fail

Tub Is Difficult to Get Into Bag - It is important that the *Tub* be fully deflated before folding. This is done by deflating with the *Double Action Hand Pump* with *Inflation Hose* on the "Deflate" side. Ensure *Tub* is folded correctly per Takedown instructions.

Cannot Connect Chiller to WiFi - Ensure that the WiFi network you are trying to access is 2.4ghz. This product only works with a 2.4ghz wireless network. Some networks can be configured to provide both frequencies if they are dual-band; Ensure WiFi password is correct by testing with another device; Ensure *Chiller* is in-range of WiFi signal; Ensure device with Tuya Smart app has internet connection.

Error Code: E1/FL/FU - Too much air inside the water circulating loop.
Double check the *Chiller Hoses*, *Hose Connectors*, *External Water Strainer*, and *Water Filter Housing* to see if any connections are not properly made. Review Water Circulation Troubleshooting above for more detailed steps to resolve.

Error Code: E2/HH - Water temperature is too high.
Wait for the water temperature to cool down and then select "Mode" (second button) to cancel this error code.

Error Code: E3/FU - Water flow is low.
See Water Circulation Troubleshooting instructions above for detailed steps to resolve.

Error Code: E4/AA Temperature sensor T4 failure - Contact Edge Theory Labs Support.

Error Code: E5/PA Temperature sensor T3 failure - Contact Edge Theory Labs Support.

Error Code: CH2 Temperature sensor T2 failure - Contact Edge Theory Labs Support.

WIFI

STEP 1 –

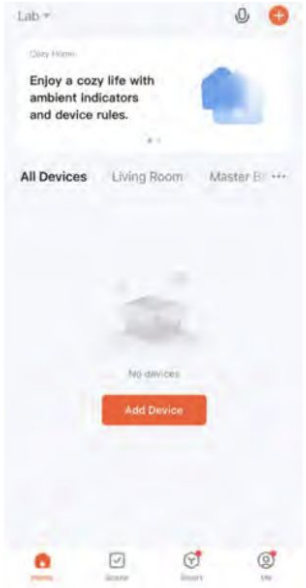
Download and install the Tuya Smart application from your mobile operating system's app store by scanning the QR Code (left) or visiting appropriate website below:

Apple: **https://apps.apple.com/us/app/tuya-smart/id1034649547**
Android: **https://play.google.com/store/apps/details?id=com.tuya.smart&hl=en_US&gl=US**

STEP 2 –

Ensure the device you are using to set up your product is connected to the WiFi network that you wish to connect the *Chiller* to, and open the *Tuya Smart* application. You will be prompted to register and set up a home location name.

Important Note: The Tuya Smart system only works with 2.4 GHz wireless networks. Many modern wireless networks utilize 5 GHz dual band frequencies and may need to be configured to 2.4 GHz to allow the Chiller to connect. Please contact the manufacturer of your Wi-Fi router for support on this matter if you experience trouble during Step 8.



STEP 3 –

Once the Tuya Smart app is open, you may add the *Chiller* by selecting "Add Device" on the home screen.

STEP 4 –

From the following menu, select “Small Home Appliance” on the left sidebar menu and then select “Thermostat (Wi-Fi).”

STEP 5 –

Next, the Wi-Fi Network screen will prompt to confirm the wireless network that should be set up and request the password for the network. These should be entered and double-checked before moving onto the next screen.

STEP 6 –

Now you may turn on the Chiller if not already by insuring GFCI is in “on” position and pressing power button (#1) on Control Panel until the display turns on.

Then press and hold the “W” button (#4) for 5 seconds until the Wi-Fi indicator on the display flashes rapidly.

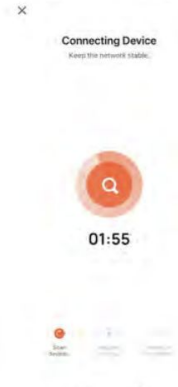
STEP 7 –

Once the Wi-Fi indicator is flashing rapidly, you may return to the Tuya Smart app and confirm that the indicator is “blinking quickly.” If the indicator is not blinking rapidly, then retry step 6.

STEP 8 –

The app will now attempt to connect to the Chiller. This may take up to 2 minutes. If the attempt fails, you will be informed that connection has failed and it will ask if you want to retry.

You may retry this step and if it fails again, then check that you are using a 2.4 GHz wireless band and confirm that the network name and password are correct.



STEP 9 –

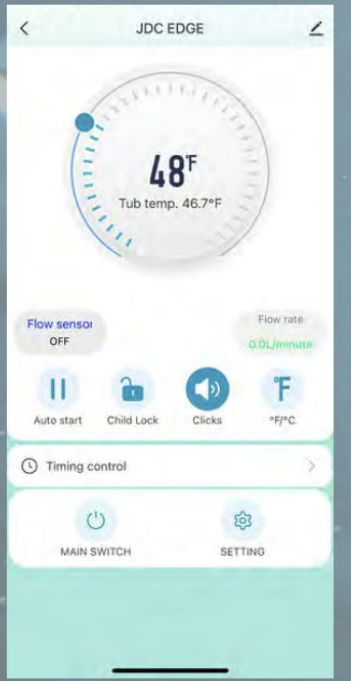
Your Chiller should now be connected successfully. You may change the name of the device by selecting the pen and paper icon next to the original name.

From here, you will see the Chiller in your home screen and can select the device to see the control page. Use the circular slider to select your desired set point from anywhere you have cell service!

App Timer

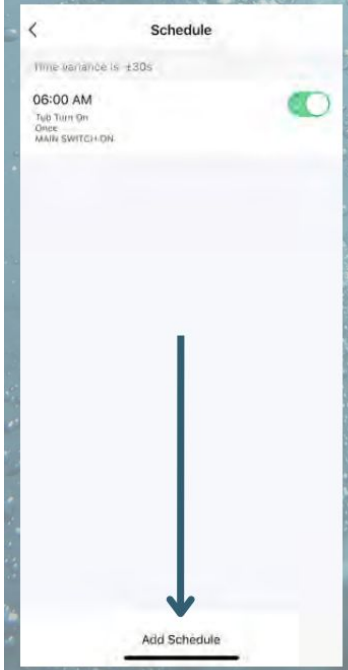
STEP 1 –

Open the Tuya app and navigate to the timing control option. Open the timing control page.



STEP 2 –

Once the timing control page is open, press and open “add schedule”.



STEP 3 –

Set the desired time and desired settings. then press “save”.

Weekly Maintenance

SUMMARY: There's 3 simple steps for weekly maintenance that take about 15 minutes in total to ensure that your *Tub* is running properly and the water is clean and clear. The first step is checking the water chemistry, then the *External Water Strainer*, then the *Water Filter*.

STEP 1 – Check Water Chemistry

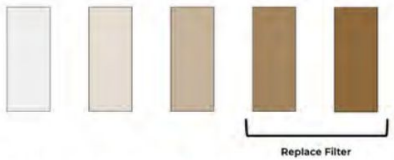
- Start by adding 30cc (1 *Measuring Cup*) of *Oxidizer* for low volume (five to seven plunges per week) or 60cc (2 *Measuring Cups*) for high volume (greater than seven plunges per week).
- Wait 15 minutes.
- Immerse *Test Strip* to a depth of 6" for 2 seconds. Remove with pads face up. Shake once to remove excess water. Wait 10 seconds and compare "San" line to color chart on back of bottle. If Sanitizer shows below the "OK" range, add 10cc (1/3 *Measuring Cup*). Wait 15 minutes and test again. Repeat test and add more *Sanitizer* if necessary.
- If Alkalinity, pH, or Calcium are outside of desired range, balancers can be purchased through our website. Of these, pH is most important to have in the right range.

STEP 2 – Check External Water Strainer

- Turn off *Chiller*, and close *Tub Valves* by turning the valve handle perpendicular to the valve body.
- Remove the bottom red "Inlet" *Chiller Hose* from the *Chiller*. Remove *Water Strainer Cover* by twisting counterclockwise and check *Inner Water Strainer* for debris; remove any foreign materials present. Use brillo pad or rough sponge if necessary. Check the *Strainer O-ring* at the base of the threads is present and free from damage before reinstalling *Water Strainer Cover*.

STEP 3 – Check Water Filter

- To access the *Water Filter*, turn the *Lower Water Filter Housing* to the left if facing the back of the *Chiller*. Check *Water Filter* condition by comparing to the diagram below. If the condition is in the "Replace" range, or if the flow reading on the *Control Panel* reads less than 13.0 L/min, then replace the filter with a new one. When changing the filter, empty the *Lower Water Filter Housing* fully and refill up to the top with fresh water.
- Ensure the *Filter Housing O-ring* in the *Upper Water Filter Housing* (white part) is present and free from damage before reinstalling filter housing.
- **Be sure to open the *Tub Valves* before turning the Chiller back on, or damage will occur!**



Replace filter when color matches "Replace Filter" range above, or if water flow issues develop with *Chiller*.

NOTE*
Mono Pro does not have tub valves. Remove hoses from tub and place cap/stops on.

Maintenance

Chiller

Descaling

1. Disconnect the *Chiller Hoses* from the *Tub*. Ensure *Tub Valve Fittings* are in the closed (perpendicular) position if the *Tub* still contains water.
2. Place both ends of the *Chiller Hoses* into a 5 gallon bucket or similar container. Fill with distilled white vinegar (cleaning vinegar) and water at a 1:4 ratio. So for a 5 gallon bucket, fill 1 gallon vinegar, and 4 gallons water, being careful to leave room for water to circulate and not overflow.
3. Turn on the *Chiller* and run in heating mode at 104ºF. Allow the *Chiller* to circulate water for 30 minutes.
4. Turn off the *Chiller* and empty the bucket of water. Refill with clean water. Place *Chiller Hoses* back in the bucket and run the Chiller for another 30 minutes. The descaling process is now complete.

Housing Maintenance

1. With a soft cloth, wipe down the exterior of the *Chiller* with mild soap and water.
2. Wipe off all soap residue with damp cloth.
3. With *Chiller* Off, inspect fan and remove any debris that may be on or around the fan shroud.

Maintenance

NOTE: Point 7

Inflatable models only.

Tub

1. Disconnect the *Tub* from the *Chiller*.
2. Drain all water from the *Tub* and *Chiller Hoses.*
3. Using mild soap and water, wash down the inside and outside of the *Tub* using a washcloth or soft sponge. Place the *Chiller Hoses* inside the *Tub* and run soapy water through them.
4. Rinse *Tub* and *Chiller Hoses* off with clean water.
5. Allow *Tub* and *Chiller Hoses* to air dry completely; preferably in direct sunlight.
6. Any marks or scuffs on the *Tub* can be removed by lightly scrubbing with a moistened Magic Eraser. Do not scrub aggressively or it may damage the material, and do not use on any logos or printed areas.
7. Check air pressure of the *Tub* by connecting the *Double Action Air Pump* and refilling to 10 PSI.
8. Check the area where the *Tub* was located for any signs of mildew buildup and clean if necessary. If large amounts of mildew buildup are noticed, the *Tub* may need to be placed on a material that can breathe to allow water to evaporate.
9. Refill with water and perform Initial *Sanitizer* protocol to sanitize the new water.