

coldture

Water Chiller Pro

User Manual



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Warnings

YOU MUST CONSULT WITH A MEDICAL PROFESSIONAL to ensure you are medically fit prior to using your Coldtuture Tub. It is important you understand the relevant risks, seriousness of risks and potential consequences of using the tub, either with cold or hot water. As with any receptacle for water, there is the risk of drowning which can be fatal. It is your responsibility to ensure minors are always properly supervised in the Coldtuture Tub and anyone who enters can safely stay above water. The Coldtuture Tub should never be used when impaired under any substance, which could affect your ability to remain awake, conscious and operating with a clear mind. With cold water, there is the risk of hypothermia and anyone using the tub should exercise extreme caution and sensible judgment to exit the Coldtuture Tub before the onset of any such complications. Extreme caution should be used because as your body becomes older, movements and circulation in your body may slow down.

The use of the Coldtuture Tub with hot water can result in nausea, dizziness and light-headedness. Caution and sensible judgment must be used to prevent any such side effects. Always leave the tub before you are experiencing any such symptoms. You also understand that by using the Coldtuture Tub, you will be solely responsible for its hygiene, sanitation and maintenance. The Coldtuture Tub is only to be used for the explicit purpose of being a recreational cold or hot tub and for no other purposes. The best way to avoid any of the risks of using the Coldtuture Tub is to remain aware of how you are feeling and err on the side of caution.

Drowning

- To reduce the risk of injury, do not permit children to use this product unless closely supervised at all times.
- 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. The GFCI must be tested before each use. To perform the test, first ensure the blue 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 up the Power Switch 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 is dangerous.

Advisory

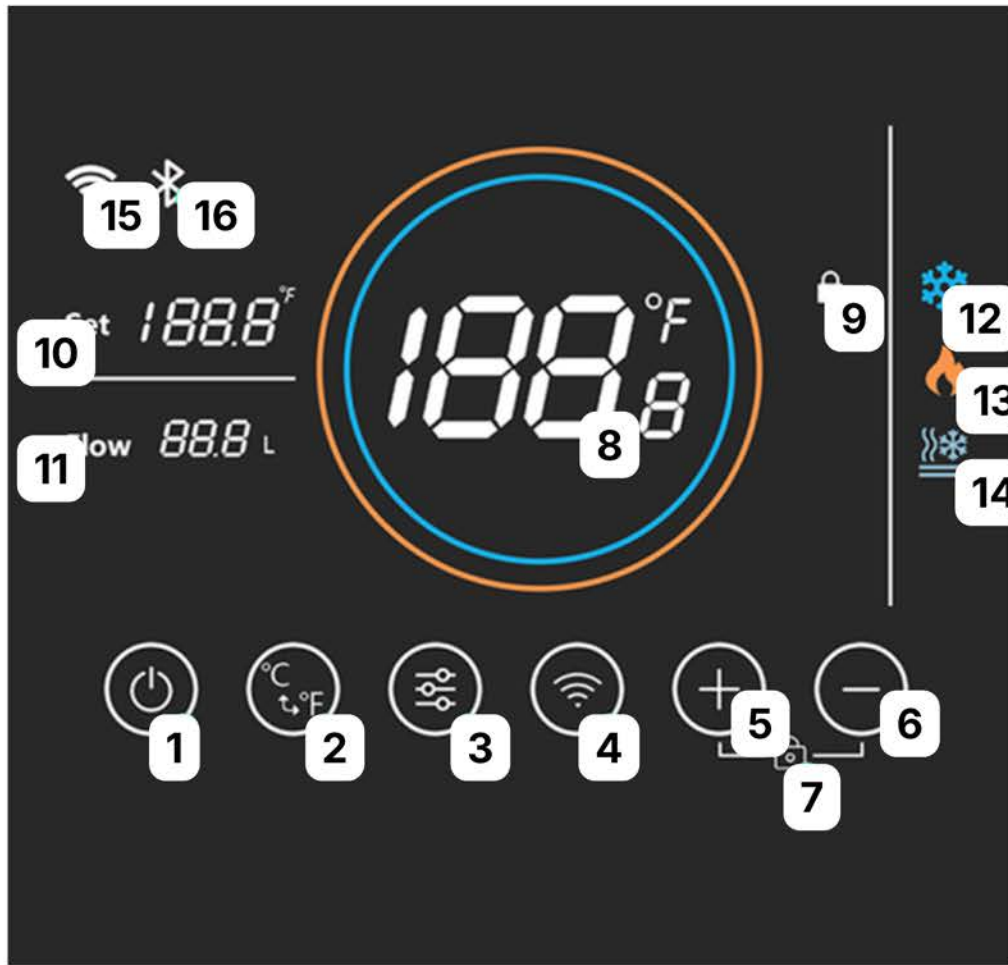
- Pool owners may need to comply with local or state laws relating to childproof fencing, safety barriers, lighting, and other safety requirements. Customers should contact their local building code enforcement office for further details.
- Keep hair, fingers, towels, and other items away from the fan.
- Only professional technicians may work on the system.

Warning

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer.

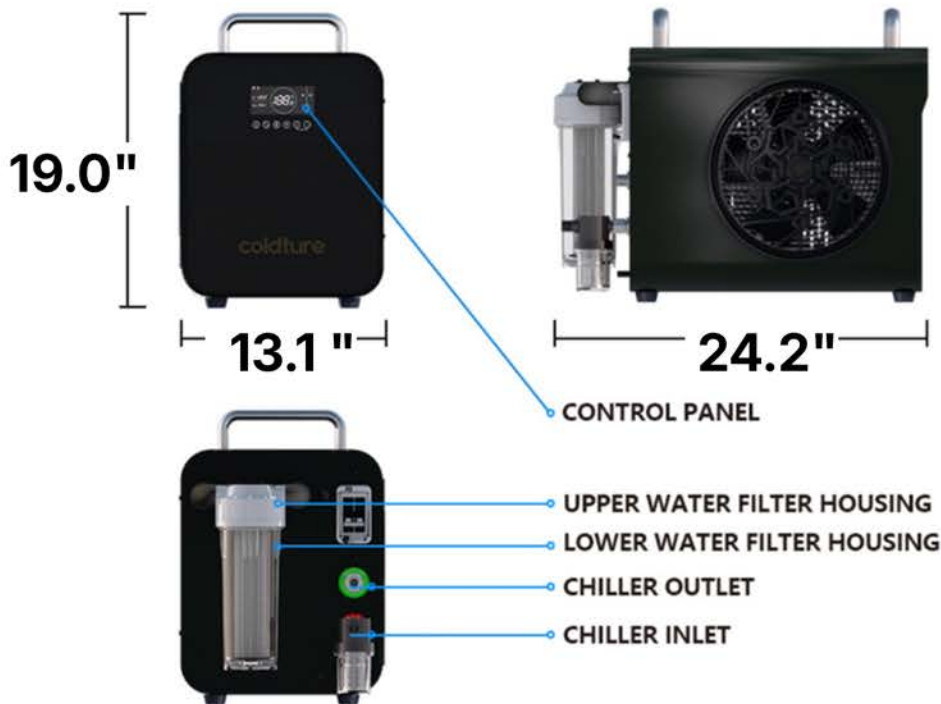
For more information, go to www.P65Warnings.ca.gov

Control Panel



1. POWER BUTTON Press for 2 seconds to turn the Chiller On or Off.	9. CHILD LOCK INFORMATION For indicating the control panel is lock or no.
2. TEMPERATURE DISPLAY MODE SWITCHING Click to toggle the Celsius and Fahrenheit displays. Press for 5 seconds to switch between Fahrenheit and Celsius.	10. SET TEMPERATURE Shows the desired temperature setting for the Tub.
3. SETTING BUTTON Press for 1 second to change temperature setting.	11. WATER FLOW INDICATOR Shows the water flow of Chiller in liters per minute.
4. WIFI ACTIVATION BUTTON Long press 5S to enter WIFI reset mode to unbind APP.	12. COOL INDICATOR Shows if Chiller is actively cooling ("Cool").
5. UP ARROW Press to increase temperature after pressing Setting Button.	13. HEAT INDICATOR Shows if Chiller is actively heating ("Heat").
6. DOWN ARROW Press to decrease set temperature after pressing Setting Button.	14. DEFROST INDICATOR Displays whether the chiller is defrosting ("Defrost").
7. (5 + 6) - CHILD LOCK Press both for 5 seconds to engage Child Lock.	15. WIFI INDICATOR Shows Wifi status. Solid means connected. Blinking for setup mode. Blank for disconnected.
8. TUB TEMPERATURE Shows temperature of water coming from the Tub.	16. BLUETOOTH INDICATOR This icon is displayed when the app is not bound, but not when the app is successfully bound.

Parts references



CHILLER

The main unit which chills/heats, circulates, and filters the water.

PROTECTIVE CAPS

The protective caps that thread on the Chiller Inlet and Outlet ports.

CHILLER HOSES

The flexible hoses are used to flow water from the Coldtuture Tub to the Chiller. Hose connection fittings, the fittings on the end of each hose. They connect the Chiller Hoses to the Chiller inlet/outlet and Tub valve fittings. Hose O-rings, the o-rings in the hose connections. These are vital for water-tight and air-tight connections with the Chiller Hoses and Tub or Chiller.

CHILLER INLET (RED)

The connection on the chiller, which incoming water enters through. This is marked with a red ring.

CHILLER OUTLET (GREEN)

The connection on the chiller, which outgoing water leaves through. This is marked with a green ring.

The visual readout including Tub Temperature, Set Point, and the Control Buttons (detailed in Control Panel section).

DOUBLE ACTION AIR PUMP

The air pump to inflate and deflate the Coldtuture Tub.

EXTERNAL WATER STRAINER

The assembly of parts that is used to prevent any debris from entering the Chiller. It connects to the Chiller inlet (red).



INFLATION VALVE

The port used to inflate the Coldtuture Tub with the Double Action Air Pump. Includes the Inflation Valve Cap, and Inflation Valve Pin. Inflation valve pin

The spring loaded component of the Inflation Valve that is exposed when the Inflation Valve Cap is removed.

Parts references

CHILLER

The main unit which chills/heats, circulates, and filters the water.

TUB

The inflatable tub.

TUB COVER

Tub cover with 4 buckles.

VALVE FITTING

The connection valve that connects the tub fittings to the 90 degree elbow on the chiller hoses running from the chiller. The parts of the tub valve fitting screw into the female inlet and outlet built into the tub.

- Ball Valve 3/4 - 1/2.
- Built in 90 degree elbow on hoses.

WATER FILTER HOUSING

The assembly which houses the Water Filter. Includes the Upper Water Filter Housing and Lower Water Filter Housing.

- Filter housing O-ring

The filter housing o-ring is located in the Upper Water Filter Housing and is used to create an airtight connection between the Lower and Upper Water Filter Housings.

- Filter housing wrench

The wrench designed to be used when the Lower Water Filter Housing is too tight to loosen by hand. Do not use the wrench to tighten the filter housing when setting up or changing the filter.

- Lower water filter housing

The filter housing which holds the water filter and connects to the back of the chiller (lower clear part).

- Upper water filter housing

The water filter housing connection point (upper white part) on the rear of the chiller.

- Water filter

The water filter is used to filter debris from the water running through the chiller. This is placed into the Lower Water Filter Housing.



Set up Instructions

STEP 1) UNBOX YOUR COLDTURE CHILLER AND TUB

Remove the Chiller and Tub from their shipping cartons. We recommend keeping the Chiller box for future transportation needs. Select a flat, clean and smooth surface. A water source and 120v power source should be accessible. If outdoors, we recommend setting the tub up in a sheltered area for longevity of your product. If using a Coldture Premium Mat (sold separately) first place the mat down and unfold the Tub in desired orientation.

STEP 2) INSTALL THE VALVE FITTINGS

Add one of the large round washers over the 3/4 side ball valve. Attach the Valve Fittings to the Tub “water out” (red), and “water in” (green) fittings by rotating it clockwise until hand tight. Do not tighten with tools.

STEP 3) INFLATE THE TUB

Inflate the Tub with the Double Action Air Pump. Ensure the hose is connected to the “Inflate” side of the pump. Open the Inflation Valve on the Tub by rotating counterclockwise. The Inflation Hose connects to the Inflation Valve with a quarter turn clockwise. When inflating the Tub, check to ensure that the Inflation Valve Pin is in the depressed (out) position or the air will be released after the hose is detached. Inflate until the gauge reads 10 PSI. Do not over inflate or product damage will occur. Replace the Inflation Valve cap with a clockwise turn.

STEP 4) INSTALL THE EXTERNAL WATER STRAINER

Remove the Protective Cap of the red “Inlet” fitting on the Chiller by rotating counterclockwise. Install the Water Strainer into the red “Inlet” by turning clockwise.

STEP 5) CONNECT THE CHILLER TO THE TUB

First check that there is a Hose O-Ring inside each of the four Hose Connection Fittings. If not, place an o-ring from the spare parts bag. Connect the 90 degree hose side to the tub. The green “Water In” fitting on the Tub should connect to the green “Outlet” on the Chiller. The red “Water Out” fitting on the Tub should connect to the red “Inlet” on the Chiller. To tighten, thread on the Hose Connection Fittings and rotate clockwise. The threads should tighten easily and smoothly. If resistance is felt, try attaching the hose again. Hand tighten only. Over tightening may cause leaking or damage.

STEP 6) FILL THE TUB

Check that the Chiller Drain Cap and hoses are in place. Remove the Lower Water Filter Housing, insert a filter and fill with water. Ensure the Filter Housing O-Ring is in place in the Upper Water Filter Housing. Install the Lower Water Filter Housing by turning right if facing the back of the Chiller until hand tight. Do not use the filter wrench to tighten the water filter housing (for loosening only). The Tub can now be filled with water up to “Max Level” line. Overfilling may cause water to overflow from the Tub for some users, though you may fill to your preference.



Set up Instructions

STEP 7) OPEN VALVES

Once the Tub has been filled, confirm the Tub Valve Fittings are in the open (parallel) position. Ensure this step has been completed to prevent damage to Chiller.

STEP 8) POWER ON THE CHILLER

Plug the Chiller into a standard 120v grounded power supply with 15 amp minimum circuit and test the GFCI functionality. 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. Place the Power Plug in an elevated position off the ground and away from water. Do not handle with wet hands. You may now turn on the Chiller by pressing the “Power On” button on the display screen. The Chiller may take up to 2–3 minutes to purge air from the system and will flash “IFF” while purging. Once this has been completed, this code will change to the current water temperature and the Chiller will begin cooling or heating. If the “E1” (Flow) error appears, or if this step takes longer than 2–3 minutes, check that the valves are open, and that the hose connections and filter housing are connected properly, and then repeat this step.

STEP 9) CHOOSE YOUR TEMPERATURE

To change the set temperature, press and hold the **Settings Button** for 1 second until the set temperature flashes. Use the up or down arrows to set your desired temperature. Press the “S” key once more to lock the setting and stop the set temperature flashing. Your Tub will reach minimum or maximum temperature in about 3 hours depending on ambient temperature and set temperature.

STEP 10) STARTUP WATER SANITATION (SOLD SEPARATELY)

Prior to use, the water should be treated with the startup Sanitizer dose. The startup dose is below and should be used any time the water is replaced in the Tub.

- A. Add 6 grams (½ bottle cap) of oxidizer into water.
- B. Wait 15 minutes.
- C. Add 4 grams (½ bottle cap) of sanitizer into water.
- D. Wait 15 minutes before use.

Please refer to Maintenance Instructions for weekly water maintenance protocol.

STEP 11) COVER YOUR TUB

Finally, put the cover on if the Tub will not be immediately used, and secure the four buckles. Enjoy your new Coldtuture tub

Please watch the Water Maintenance instructional video for the weekly protocol you need to follow to ensure the water stays clean and clear. Enjoy!

WiFi / app setup

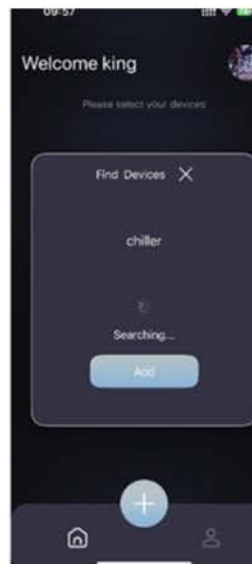
STEP 1)

Ensure the device you are using is connected to the WiFi network that you wish to connect the chiller to. Grant WiFi and Bluetooth permissions to the device.



STEP 2)

Click the add device icon below to automatically search for devices, and the searched devices will be displayed in the device list.



STEP 3)

Select the WiFi network your device is using and enter the correct account password (it will be obtained automatically by default), then click Next.



STEP 4)

After the initialization of device addition is completed, click the Finish button to automatically jump to the page of added devices.



STEP 5)

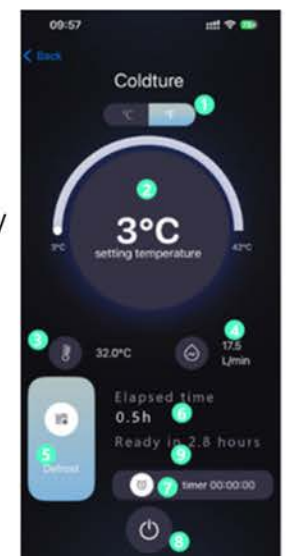
Click the icon of the device you want to control to enter the device control page.



STEP 6)

Open the control page. Functionality disassembled:

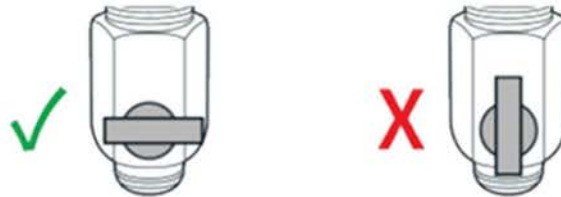
1. Temperature display switching
2. Temperature settings
3. Current temperature display
4. Current traffic display
5. Current status display
6. Elapsed time
7. Timed task
8. Power switch
9. Estimated time to reach the set temperature



Takedown instructions

STEP 1) TURN THE CHILLER OFF

Turn the chiller off by toggling the power switch on the back of the chiller to the down “off” position.



STEP 2) CLOSE THE VALVES

Turn the tub valve fittings to the closed (perpendicular) position (see image).

STEP 3) DRAIN THE TUB

There are three methods that can be used to drain the tub:

A. Disconnect the red “water in” hose from the chiller. Direct the hose to the desired area for drainage and open the valve. Water will flow out of the hose until it reaches the lower water fitting. The remaining water can be removed by turning the tub over.

B. Disconnect both hoses from the tub. The red “inlet” hose from the chiller should be placed inside the tub. The green “outlet” hose from the chiller should be directed to the desired location for drainage and the chiller can be turned back on. The chiller will pump water out. The tub can be tipped as the water level gets low to remove the last bit of water. Be sure to turn off the chiller.

C. Purchase a submersible sump pump. Connect your garden hose to the pump and drop the pump into the water. When you plug the pump in, water will begin draining. Please visit our help centre or reach out for recommendations on sump pumps.

STEP 4) DISCONNECT THE HOSES

Once the tub is drained, the hoses can be disconnected from the tub and chiller by rotating the hose connection fittings counterclockwise, and the chiller can be unplugged.

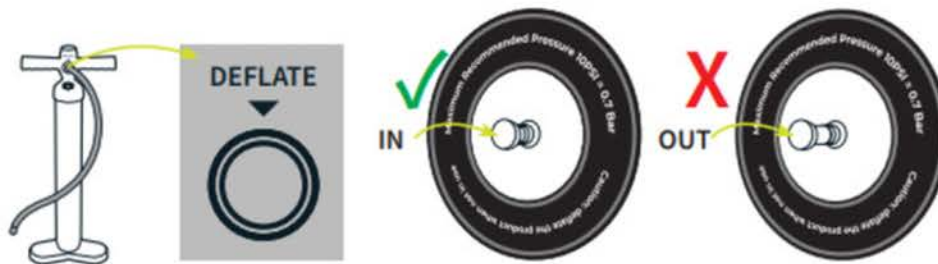
STEP 5) DRY THE TUB

The tub should now be dried inside and out (including bottom) with a towel to prevent mildew. This is also a good time to clean the tub with mild soap and water.

Takedown instructions

STEP 6) DEFLATE THE TUB

Remove the inflation valve cap. Press the inflation valve pin to allow the air to be released. The air release will be aggressive so don't be startled. Remove the remaining air by attaching the inflation hose to the "deflate" side of the double action hand pump. When deflating the tub, check to ensure that the inflation valve pin is in the depressed (out) position. Deflate until all air has been removed and remove the inflation hose. Replace the inflation valve cap. The tub valve fittings should be removed.



STEP 7) FOLD THE TUB

The tub can now be folded for storage. First fold the Coldtuture branded wall of the tub inward. The back wall of the tub can now be folded over the branded side so that the tub is flat. Fold the right side of the tub towards the centre, with the fold being just outside the water fitting, and repeat on the left side. Hold the tri-folded tub with one hand, and with the other, place the storage strap under the tub. Fasten the storage strap and tighten.

STEP 8) PACK THE TUB

Place the tub, cover, hoses, and double action air pump into the backpack. This is best done by starting with the tub, then the tub cover, then double action air pump, and finally the hoses.

STEP 9) DRAIN THE CHILLER

Unscrew and empty the lower water filter housing. Then, unscrew the external water strainer. The unit can be tipped slightly to the side to remove water inside the chiller. Once drained, replace the chiller drain cap and lower water filter housing. Finally, replace the protective chiller fitting caps on the inlet and outlet connections.

TAKEDOWN COMPLETE

You are now ready to take your adventure on the road!

Water Maintenance

INITIAL SETUP:

- Add 6 grams (1/2 bottle cap) of oxidizer into water
- Wait 15 minutes
- Add 4 grams (1/2 bottle cap) of sanitizer into water
- Wait 15 minutes before entry into tub

WEEKLY MAINTENANCE

Summary:

There are 3 simple steps for weekly maintenance that take about 15 minutes 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 THE CHEMISTRY

- Start by adding 6 grams of oxidizer for low volume (5 to 7 plunges per week) or 12 grams (1 full cap) for high volume (7+ plunges per week).
- Wait 15 minutes.
- Immerse test strip to a depth of 6" for 2 seconds. Remove and shake once to remove excess water. Wait 10 seconds and compare to colour chart on back of bottle. If sanitizer shows below the "OK" range, add 2 grams of chlorine. 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 handle perpendicular to the valve body.
- Close the ball valves. Open the clear pre-filter housing and remove the mesh filter to inspect and rinse away any debris. Reinstall the filter and housing securely. 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

- For optimal filter performance, rinse the filter weekly and replace on a monthly basis. To access the water filter, turn the lower water filter housing to the left if facing the back of the chiller. When changing the filter, empty water from 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.

Recommended Routine Maintenance

To ensure the longevity of your Coldtuture tub, it is recommended to perform maintenance on your chiller and tub on a regular basis. This maintenance protocol will help ensure that the chiller functions as expected and that the water quality of the tub is kept clean. The steps below should be performed every three months.

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. 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.

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.
3. Turn on the chiller and run in heating mode at 40°C / 104°F. 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 a damp cloth.
3. With the chiller off, inspect the fan and remove any debris that may be on or around the fan shroud.

Scan for Troubleshooting



Other Troubleshooting

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, reinflate accordingly. If deflation continues regularly, use the air valve wrench and tighten the valve assembly. If deflation continues, 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 and ensure the power switch on the back of the chiller is up in the "on" position. 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.

• WATER IS DRIPPING FROM CHILLER

During heating mode, condensation may develop inside the chiller 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 small margin.

• WATER HAS BECOME CLOUDY

Check filter element and replace if discoloured. Add 60cc (2oz) of oxidizer to water to break down organics and allow to run for 2 hours. Replace water if this fails.

• 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

No.	Error Code	Clarification	Basis of Determination	Resumption
1	E1	More air in the line	Flow rate below 12L/min, flow switch disconnected	Reopen
		Water flow too low		
		Circulation pump blockage		
2	E2	Water temperature is too high	Actual water temperature greater than 50°C	Reopen
3	E3	Anhydrous	Vacuum pump on intermittently for 3 min, water flow switch does not close	After the line is connected to water, restart the unit
4	E4	Faulty water temperature sensor	Open/short circuit, temperature abnormal	Reboot after servicing
5	E5	Malfunctioning flow meter	Flow rate exceeds maximum value, flow rate always 0	Reboot after servicing
6	E6	Flow switch malfunction	Large pump on with flow, flow switch disconnected	Reboot after servicing

Scan for warranty info:





**welcome to the
coldture wellness club**