



Cold Plunge Chiller Manual

Models: .6HP, .8HP, 1HP



PERSONAL AND COMMERCIAL USE
120 VAC 15 AMP DEDICATED CIRCUIT WITH GFCI OUTLET REQUIRED

IMPORTANT: After unpacking (or accidental tip-over allow the chiller to stand upright for 20 minutes before starting. The fluid in the compressor needs to settle. Failure to do so could result in irrevocable damage not covered under warranty.

IMPORTANT SAFETY INSTRUCTIONS

DANGER: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE: Indicates information considered important, but not hazard-related.



IMPROPER ASSEMBLY AND OPERATION CAN RESULT IN SEVERE PERSONAL INJURY AS WELL AS PRODUCT FAILURE NOT COVERED BY WARRANTY. PLEASE FOLLOW ALL INSTRUCTIONS CAREFULLY OR CONTACT TECHNICAL SUPPORT FOR ASSISTANCE



FOLLOW SAFETY INFORMATION IN THIS DOCUMENT TO AVOID SERIOUS INJURY OR DEATH



REFER TO YOUR LOCAL BUILDING CODES FOR ANY SPECIFIC INSTALLATION REQUIREMENTS



KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

WARNING

- Consult your doctor about any health-related limitations related to cold plunge use. Ignoring advice from your medical provider could cause serious injury or death.
- Do not let people with pre-existing health conditions use the cold plunge on their own. Using the cold plunge could cause these users to lose consciousness, leading to serious injury or death.
- Parents should consult your pediatrician before allowing children to use the cold plunge. Ignoring advice from your medical provider could cause serious injury or death.
- Please do not leave children unsupervised around the tub. Extreme caution must be exercised to prevent unauthorized access by children. Always lock the tub with the included cover and locking clasps when not in use.
- Never operate any electrical appliance when in the tub or when your body is wet. Do not place any electric appliances, such as lights, telephones, radios, or televisions within 5 feet of the tub. This could lead to electrocution or death.
- The use of alcohol, drugs, or medication before or during the cold plunge may lead to loss of consciousness with the possibility of drowning and death.
- Persons using medication should consult a physician before using a tub since some medication may induce drowsiness while other medication may affect heart rate, blood pressure, and circulation.

- Prolonged immersion in water below 70°F (21°C) can pose a risk of hypothermia. Please note that the core body temperature can continue to drop even after emerging from the cold plunge tub. Hypothermia can lead to serious injury or death.
- Always enter the cold plunge tub feet first and breathe continuously in a steady, structured rhythm. Do not attempt to hyperventilate or hold your breath while immersed in the tub.
- Exit the tub immediately if there are any feelings of weakness, exhaustion, or being unable to control your fingers, hands, arms, and legs.

⚠ CAUTION

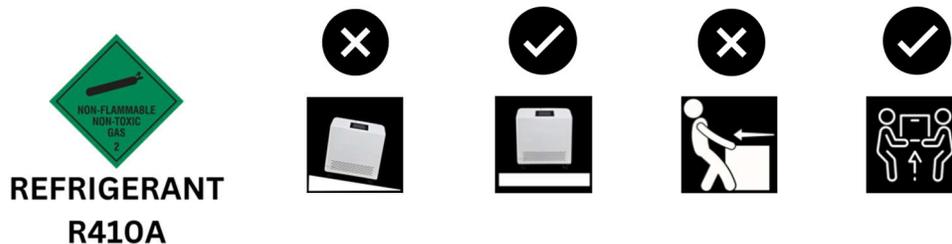
- Be very careful when getting in and out of the cold plunge. The water in the tub causes surfaces to be slippery. This could cause the user to slip and fall.
- Do not alter the chill unit in any way, unless explicitly instructed in this manual. Altering the chill unit could lead to damage, increasing the risk to bodily harm.
- When moving and lifting heavy pieces, use two or more people. Moving pieces without adequate manpower will lead to injury.
- Do not operate tools or heavy machinery or attempt to drive immediately after completing a cold plunge.

IMPORTANT INFORMATION

Working Temperature: 1°C~45°C (34°F~113°F)

Storage Temperature: 10°C~50°C(50°F~122°F)

Storage Relative Humidity: 20%~85%



1.1 Pre-Install Checklist & Safety Warning

Failure to adhere to the safety instructions and guidelines provided in this warning could result in serious injury or even death. Cold water immersion, electrical installation, and usage entail inherent risks that require careful attention and precautionary measures.

DANGER

- **Dedicated Breaker:**
Use a dedicated circuit breaker for your cold plunge to prevent electrical overload. Consult a licensed electrician to ensure proper installation.
- **GFCI Wall Outlet:**
Use a Ground Fault Circuit Interrupter (GFCI) wall outlet for your cold plunge to reduce the risk of electrical shock. Professional electrical installation is advised.
- **Minimum Distance from Outlets:**
Maintain a minimum distance of at least 6 feet between your cold plunge unit and the nearest plug or outlet. This prevents potential electrical hazards.

WARNING

- **Professional Installation**
We strongly recommend professional installation by licensed experts, particularly for electrical and plumbing components, to ensure compliance with safety codes and regulations.
- **Safe Installation Location:**
Install the unit in a safe location that is not easily accessible to children. Ensure that the unit is out of their reach and properly secured to prevent unauthorized access. Failure to do so could lead to drowning.

CAUTION

- **Waterproof Flooring:**
Only install your cold plunge and chiller on a waterproof floor to prevent water damage to your surroundings. Failure to do so may result in property damage.
- **Hose Fitting Check:**
Before turning on the power, ensure that all hose fittings are properly connected to prevent water leakage that could lead to damage. Failure to do so may result in water damage to your property.
- **Avoid Bending Hose Lines to Prevent Water Flow Restrictions and Freezing:**
Bending or kinking the hose lines connected to your chiller can lead to serious issues with water flow and potential freezing of pipes within the chiller. It is imperative to handle and route the hose lines carefully to ensure smooth water circulation and prevent damage.
- **Clearance from Walls and Objects:**
Do not install the chilling system in closets, cabinets, or other enclosed spaces. Maintain a minimum clearance of 3 feet between all components and utilities of your cold plunge and the nearest walls or objects. Adequate spacing ensures proper ventilation and access for maintenance. This will also affect the operation and efficiency of the chiller and possibly cause damage.

- **Chill Unit Fans:**
Never touch the chill unit fans while in operation, this could lead to damage of the unit or injury to yourself.
- **Voltage:**
Make sure that the chiller is plugged into a circuit with the properly rated voltage. If the voltage is incorrect, this could damage the chill unit.
- **RCD Switch:**
Do not touch the RCD switch or the electrical components during operation of the chiller. This could cause damage to the unit.
- **Chill Unit Filtration:**
Do not use chiller without the filter element installed. This will cause damage to the unit. Also, it is important to maintain and regularly check and clean the chiller and filter device.
- **Storage:**
Ensure the chill unit is empty of water before storage. Any remaining water could damage the internal components of the unit.

1.2 Sanitation Warning: Safe Use of Ozone

Important Information about Ozone Use and Safety

Ozone generating systems play a crucial role in water treatment by introducing ozone gas into the water. It's important to understand the characteristics and precautions associated with ozone use to ensure the safety and effectiveness of water treatment processes.

- **Nature of Ozone:**
 - Ozone is a gas composed of three oxygen atoms per molecule and can be readily dissolved in water.
- **Odorless Aqueous Ozone:**
 - When gaseous ozone is dissolved in water, it becomes aqueous ozone, which is odorless.
- **Versatile Benefits:**
 - Ozone serves various purposes, including antimicrobial oxidation for supplemental treatment and secondary disinfection.
 - It aids in the oxidation of organic and inorganic contaminants.
 - Ozone also helps reduce chlorine byproducts and can contribute to algae reduction.
- **Additional Functions:**
 - Ozone can act as a micro-flocculant, aiding in the removal of small particles.
 - It also functions as an anti-foaming agent, helping maintain water clarity.
- **Low Residual Presence:**
 - Ozone leaves little to no residual presence in a pool or spa. Therefore, it is used alongside an EPA-registered primary sanitizer for comprehensive water treatment.
- **Chloramine Control:**
 - Ozone offers the added benefit of destroying chloramines, which are compounds formed by the reaction of chlorine with organic and nitrogenous substances.
 - The use of ozone can lead to reduced chlorine consumption.
- **Compliance with NSF/ANSI Standard 50:**
 - It is essential to comply with industry standards. NSF/ANSI Standard 50 mandates the use of ozone in conjunction with chlorine for water treatment.

Safety Precautions:

- Ozone generators should be installed, operated, and maintained by trained professionals.
- Always follow manufacturer instructions for the safe use of ozone-generating systems.
- Regularly monitor and maintain ozone levels to ensure effective water treatment.
- Avoid direct inhalation of ozone gas, as it may have adverse health effects.
- Educate all personnel involved in water treatment about ozone safety practices.

****Additional Warning:**

- **Regular Ozone Tubing Inspection:**
 - Regularly check ozone tubing to ensure it is intact and without breaches.
 - Any breaching or damage to ozone tubing can lead to the release of ozone gas, which is dangerous when inhaled.
 - Breaches in tubing may cause harm due to the potential release of ozone into the air.

1.3 Electrical Warning

Important: The following electrical warning is intended to minimize electrical risks associated with the installation and use of your DCT Chiller. Please note that electrical codes and safety practices can vary based on your location. It is essential to follow the latest local electrical codes and regulations to ensure a safe installation. We highly recommend consulting a licensed electrician who is familiar with your area's codes and requirements for pools and spas.

Electrical Codes and Requirements:

- Follow the latest applicable electrical codes for pools, spas, and similar water-related installations in your region. Compliance with these codes is critical to preventing electrical hazards.
- Codes such as the National Electrical Code (NEC) in the United States and the International Electrotechnical Commission (IEC) standards for other countries often provide guidelines specific to pools and spas.

Electrical Outlet Selection:

- Use a Ground Fault Circuit Interrupter (GFCI) wall outlet for your cold plunge to minimize the risk of electrical shock.
- Ensure that the outlet is rated for outdoor and wet locations. GFCI outlets are designed to detect imbalances in electrical current, providing an added layer of safety.

Dedicated Breaker and Wiring:

- Install a dedicated circuit breaker for the cold plunge to prevent electrical overload. The amperage and wiring requirements should be determined by a licensed electrician based on the manufacturer's specifications and local codes.
- NEC Article 680 outlines guidelines for wiring and electrical equipment used in swimming pools, spas, hot tubs, and similar installations.

Minimum Distance from Outlets:

- Maintain a minimum distance of at least 6 feet between the cold plunge unit and the nearest plug or outlet. This distance helps minimize the risk of accidental contact with water and electrical components.

****Important Note**

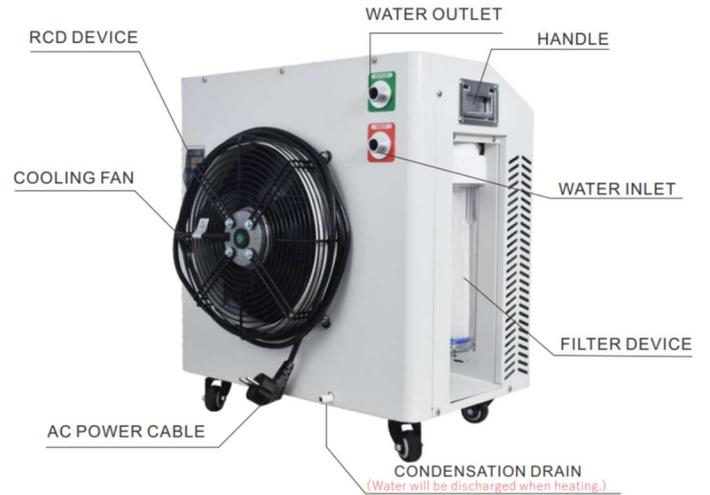
This product has the potential to cause death, injury, harm, or property damage if not installed, operated, and maintained in strict accordance with the provided instructions, local regulations, and up-to-date electrical codes. The risks associated with improper electrical installation and usage are substantial and could have severe consequences. We emphasize the necessity of engaging a licensed electrician experienced in pool and spa installations to ensure compliance with the latest codes and regulations, as well as to safeguard against electrical hazards.

1.4 Specs

Model	.6HP	.8HP	1HP
Power Supply	AC 120V 60Hz	AC 120V 60Hz	AC 120V 60Hz
Input Power	640W	725W	1500W
Compressor Power	505W	630W	945W
Cooling Capacity	1680W	2230W	2700W
Heating Function	Yes	Yes	Yes
Refrigerant	R410A	R410A	R410A
Water Temp.	37°F-85°F	37°F-85°F	37°F-85°F
Disinfection	Built-in ozone pump	Built-in ozone pump	Built-in ozone pump
Circulation Pump	Built-in self-priming system	Built-in self-priming system	Built-in self-priming system
Water Filter	20 Micron 4" x 2.5"	20 Micron 10" x 2.5"	20 Micron 10" x 2.5"
WIFI Remote Control	Android & IOS App	Android & IOS App	Android & IOS App
Transport Wheels	Yes	Yes	Yes
Carry Handle	Reinforced Steel	Reinforced Steel	Reinforced Steel
Quick Connectors	1/2" Threaded NPT	1/2" Threaded NPT	1/2" Threaded NPT
Net Weight	66 lbs.	77 lbs.	88 lbs.
Dimensions	17"x 11"x 19"	19"x 14"x 21"	22"x 16"x 22"
Certifications	CE	CE	CE
Cooling Time (For Reference Only, Depends on Water Volume)	1-3°F Every 60 Minutes	1-3°F Every 40 Minutes	1-3°F Every 20 Minutes

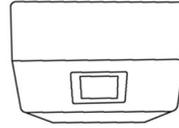
ASSEMBLY

2.1 Product Diagram



2.2 Packing List

1pc Cold Plunge Chiller & Spa System



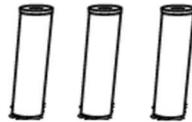
1pc Filter Wrench



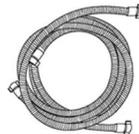
1pc Hair Strainer Wrench



3pc 20 Micron Filter Cartridge



2pc Quick-Connect Hoses



2pc Hose Adapters



6pc Rubber Gasket Seals



Note: Your cold plunge has been assembled and tested prior to packaging.

2.3 Assembly Details

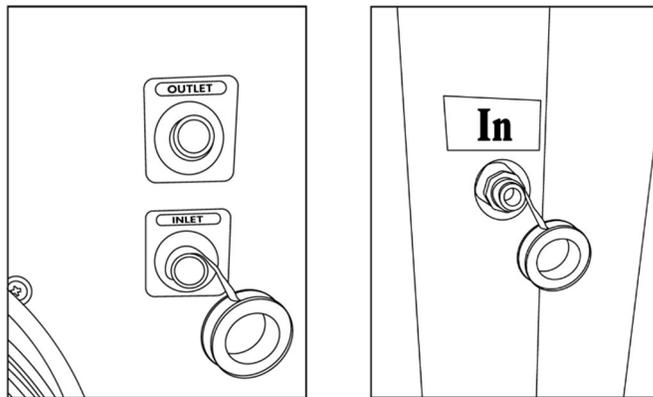
Step 1: Find a level surface for your chiller

IMPORTANT: Allow the chiller to stand upright on a level surface for 20 minutes before starting. The fluid in the compressor needs to settle. Failure to do so could result in irrevocable damage not covered under warranty. Also, ensure the chiller is always upright and never turned over.



Step 2: Apply teflon tape

- Wrap Teflon tape clockwise 3x around the threads of both the inlet/outlet of the plunge bath, chiller, and valves.

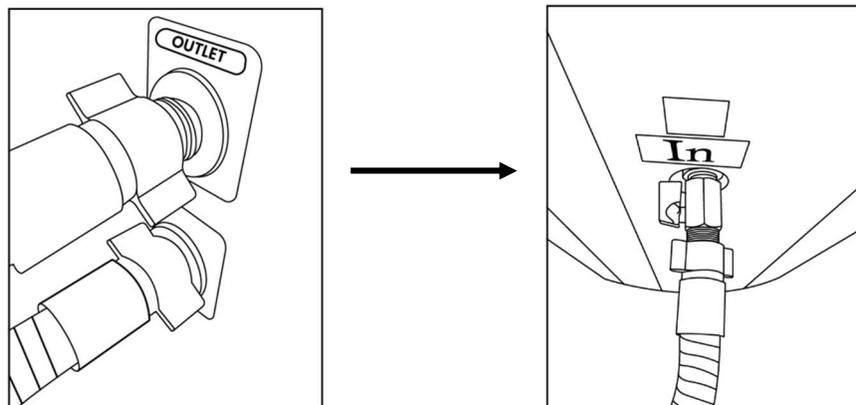


Step 3: Connect your chiller to your plunge

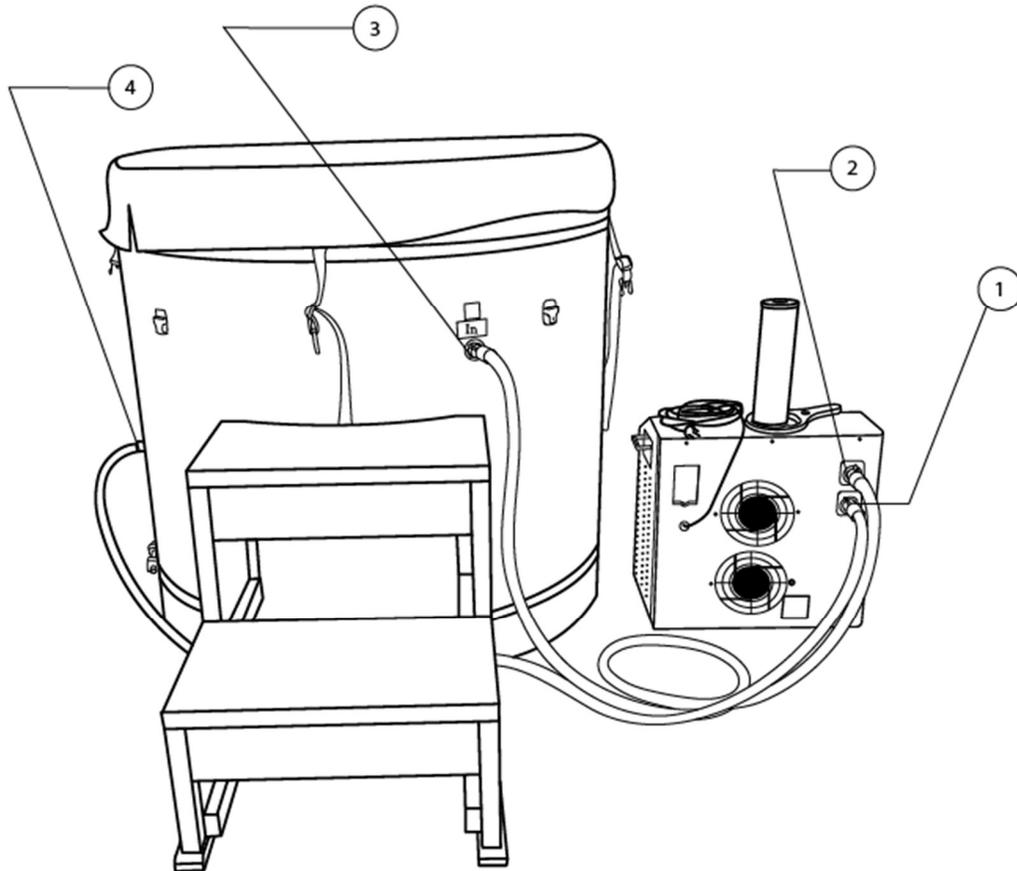
IMPORTANT: Make sure the gasket is properly in place on your hose before connecting.

- Connect the "INLET" on your chiller to the "OUT" on your plunge bath with a quick-connect hose.
- Connect the "OUTLET" on your chiller to the "IN" on your plunge bath with a quick-connect hose.
- Hand tighten only.

NOTE: Once the hoses are attached you may fill your cold plunge bath.



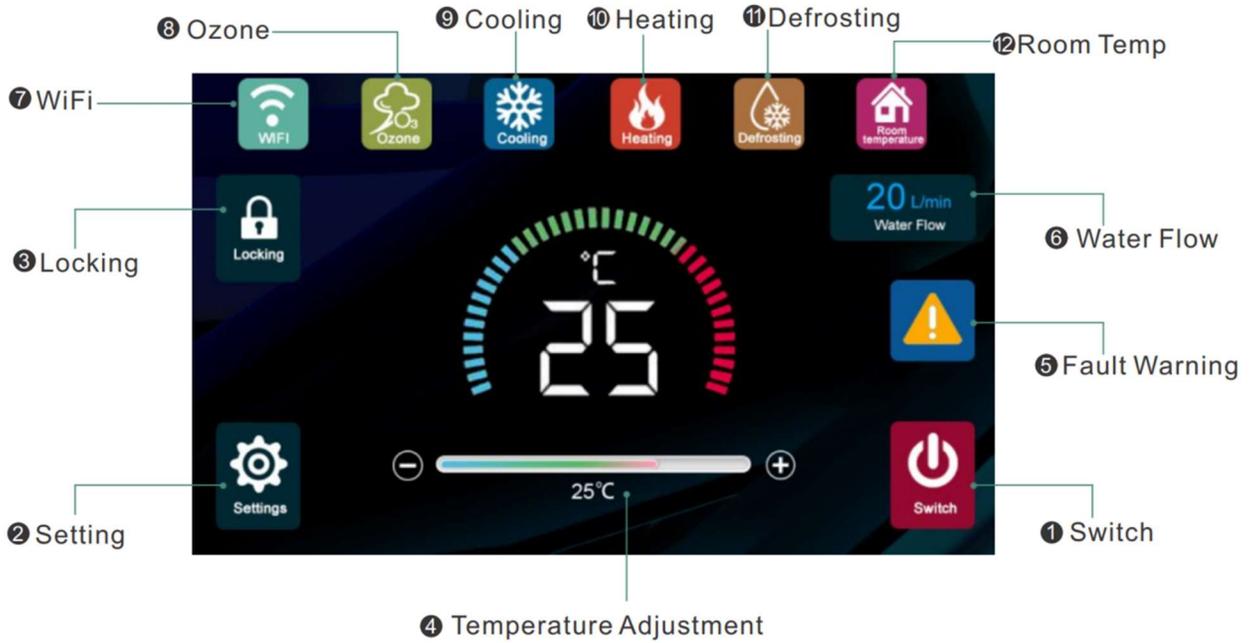
2.4 Assembly Diagram



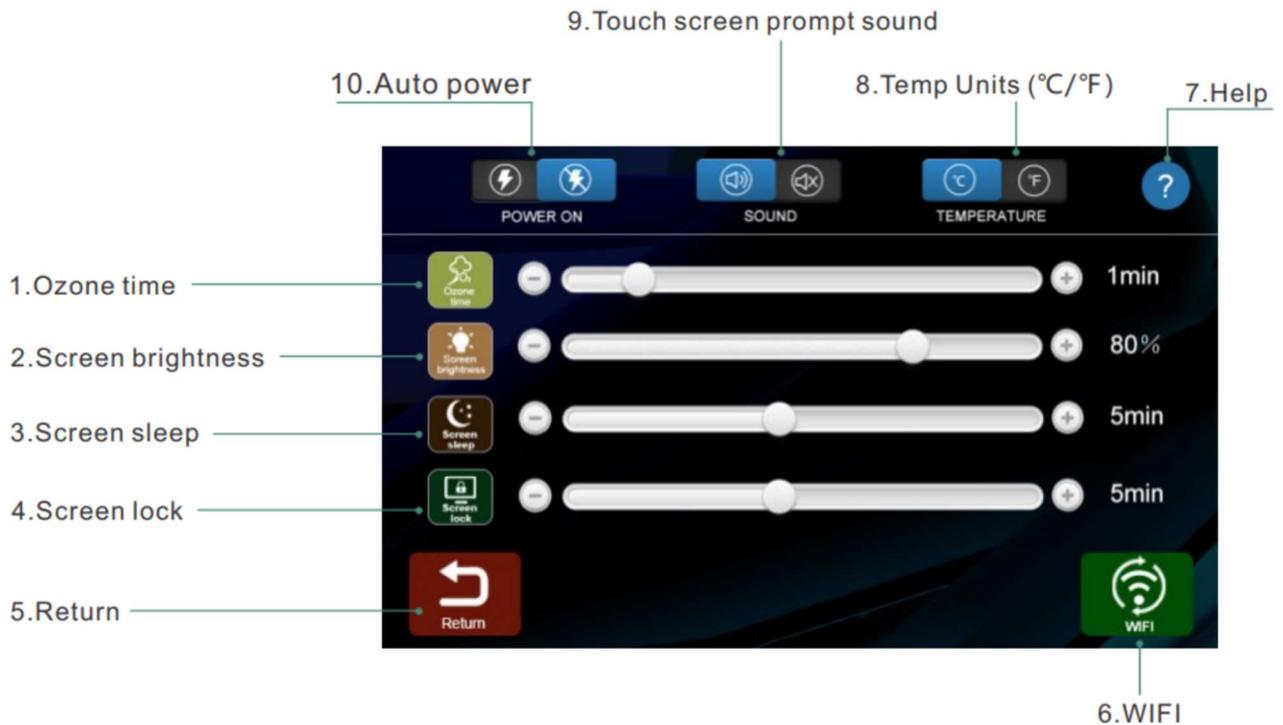
No.	Name	No.	Name
1	Chiller Inlet	3	Cold Plunge Inlet
2	Chiller Outlet	4	Cold Plunge Outlet

OPERATING THE COLD PLUNGE CHILLER & SPA SYSTEM

3.1 Control Panel Introduction



3.2 Interface Overview



3.3 App Set Up

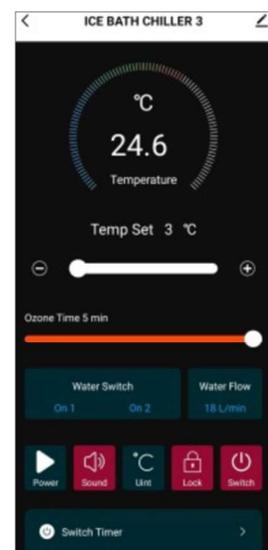
Note: Tuya can only support 2.4G WIFI signal. Before connecting your phone to the chiller, please confirm that the Wi-Fi__33 used by your phone is in the 2.4G frequency band. It will not be able to connect to the chiller, if it is in the 5G frequency band.



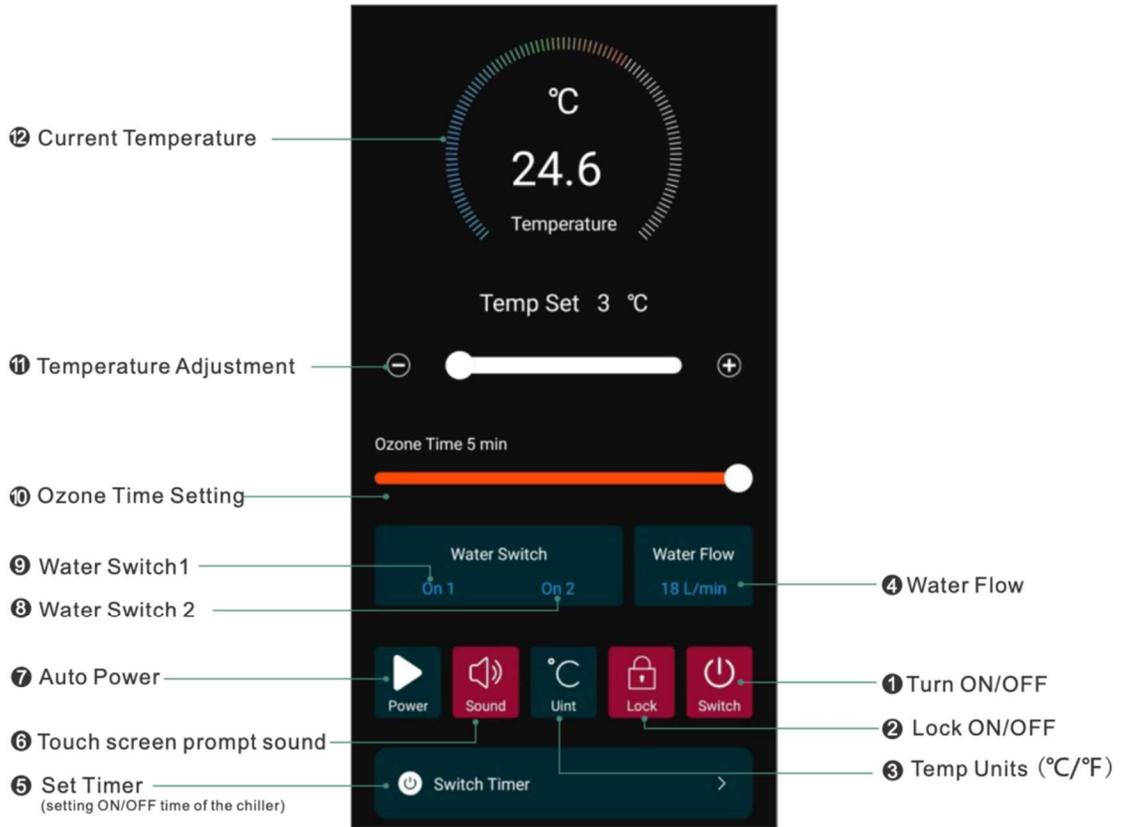
Scan to
Download Tuya
Smart app

Step 1: Add your chiller

- Turn on your chiller.
- Download the Tuya app.
- Go into the settings menu on your chiller.
- Press and hold the WIFI button for 3-5 seconds until the button begins to blink.
- Tuya should locate the chiller automatically.
- Enter your WIFI password.



3.4 Settings & Preferences



Step 1: Test your GFCI (reset) button

- Locate the GFCI reset button on the back of your chiller.
- After the unit is turned on, hit the reset button.
- Test to make sure the unit properly shuts down / reboots.

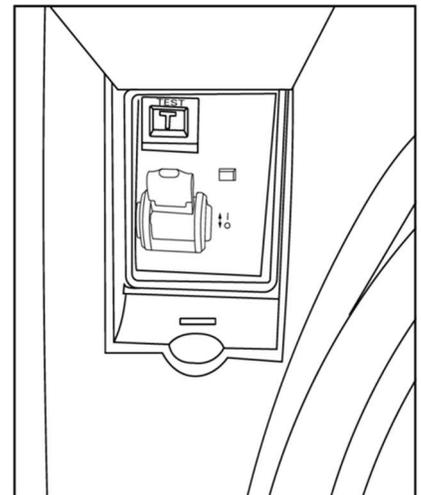
IMPORTANT: If the unit does not reset. Shut the unit off and contact support immediately.

Step 2: Set a timer

- We highly recommend setting your chiller on a timer. Reducing the runtime will dramatically improve the lifespan of your chiller. We recommend scheduling 8 hours of downtime per day.

Step 3: Turn on Auto Power

- This ensures your chiller will automatically maintain the set temperature.



3.5 Water Maintenance

Step 1: Filling your plunge

- For best results, it's recommended that you fill your plunge with filtered water. In-line water hose filter attachments are readily available at local hardware stores, pool supply stores, and online at Amazon.

Step 2: Turn on your ozone

- It's recommended that you set your ozone pump to run for 2 minutes – 5 minutes minimum. This frequency will efficiently help sanitize the water in your plunge.

Note: The effectiveness of ozone is dependent on balanced water. If the water in your plunge has unbalanced pH or Alkalinity your ozone will become less effective.

Step 3: Treat your water

IMPORTANT: Leaving your water untreated can cause rapid erosion to the system and is not covered under warranty. Additionally, it's incredibly harmful to the skin to bathe in corrosive water.

- Add a 1 tsp of spa shock oxidizer granular (or the recommended ppm of liquid, tablets, or other oxidizer form).
- Wait 15 minutes.
- Test your water. Use a test strip following instructions on bottle.
- Ideal Total Alkalinity Range: 125-150 ppm
- Ideal pH is between 7.2 and 7.8.
- Adjust your water using Alkalinity and/or pH increaser/decreaser.
- Wait 15 minutes before making any adjustments.
- Adjust 1 tsp at a time and retest after 15 minutes. Repeat until you have the ideal results.
- We highly endorse using a water conditioner after balancing your water. This will lock in your pH & Alkalinity levels for extended periods of time.
- Test your water daily and adjust as needed.

Step 4: Change your filter

IMPORTANT: It's recommended that you change your filter every 20 plunges, or as needed.

- Turn your pump off.
- Close your inlet/outlet valves on your plunge.
- Use the filter wrench to unscrew the filter housing.
- Dispose of the old filter.
- Replace with a new filter, then screw filter housing back on.

NOTE: Make sure the gasket on the filter housing is properly in place before screwing the filter housing back on. Failure to do so could result in water damage when turning the chiller back on.

Step 5: Test your water

- It's recommended that you test your water daily, or as needed.
- It's recommended that you contact your local pools & spas dealer to complete a comprehensive lab water test and chemical maintenance protocol.

Step 6: Change your water

- It's recommended that you change the water in your tub weekly, or as needed.
- Once your water is foggy or highly unbalanced, you must change the water immediately.

3.6 Unit Maintenance

Maintenance Checklist:

- **Regular cleaning:**
 - Wipe down the exterior and fan regularly to prevent dust and debris from entering the system.
 - We highly endorse getting a small water vacuum to clean debris, especially for outdoor units.
- **Pump inspection:**
 - Periodically inspect the pump for any signs of damage or abnormal noise. If it becomes noisy, or triggers a water flow malfunction, it's likely time to replace your filter.
- **Hose and fitting examination:**
 - Inspect hose connections and fittings for leaks or damage. Tighten or replace as necessary.
- **Hair strainer cleaning:**
 - Inspect hair strainer and clean as required. Strainer is located in recessed area for the filter.



- **Water level maintenance:**
 - Maintain the appropriate water level to ensure proper circulation and prevent damage to the chiller.
- **Winterization (if applicable):**
 - Properly winterize the chiller if used in cold climates, to prevent freezing and damage during winter months.
 - IMPORTANT: Freezing parts are not covered under warranty.

3.7 Troubleshooting

My chiller won't turn on

- Try hitting the reset button on your GFCI adapter on the back of your chiller.
- Try resetting your GFCI outlet.
- Check the breaker in your home.

Water flow failure

- Replace your filter. When the filter is clogged it will often trigger this failure.
- Clean your hair strainer. Make sure that the hair strainer is not clogged.

My chiller keeps turning off

- Make sure your reset button isn't in a high traffic area, where it may be getting accidentally pushed.
- Check your breaker. Make sure you are on a dedicated 15AMP breaker switch.
- Check your electrical box for any moisture.
 - If moisture is discovered in the electrical box it could be one of two things:
 1. There is a breach in your electrical box somewhere. Check for damage or improper seal when it's closed or cracks in the box.
 2. The check valve on your ozone tubing has failed. This would allow a small amount of water to enter the electrical box and would trigger your GFCI to shut the system off. If you see water coming through the small ¼" clear tubing and entering your electrical box, turn off your unit and reach out to Harvia for a replacement part.

My chiller is leaking

- It's likely condensation. A small puddle of condensation is to be expected daily. It's best to wipe it down once per day to avoid moisture buildup.
- Test to see if the water level is getting lower in your plunge tub. Mark it and check again the next day. Also ensure that the leak is not coming from the plunge tub.
- If your leak is significant, please reach out to Harvia customer service directly.

Warranty Information

COLD PLUNGE CHILLER WARRANTY

Harvia warrants that the Cold Plunge Tub, purchased from an authorized agent and in its undamaged original packaging, is free from defects in materials and workmanship. Harvia or its agent will, at their discretion, repair or replace parts that become defective within the warranty period, subject to the specific conditions below.

General Exclusions:

- **Temperature Limitation:** This warranty does not cover any damage caused by using the Chiller in freezing temperatures at or below 32° Fahrenheit.
- **Water Chemistry Maintenance:** This warranty does not cover any damage or corrosion caused by not maintaining proper water chemistry or failing to regularly change out water.
- **Visible Damage upon Delivery:** This warranty does not cover any damage to or loss of goods during transport of any kind.
- **Regular Maintenance:** This warranty does not cover any damage caused by neglecting to perform proper maintenance on the Chiller and its components.
- **Labor:** This warranty does not cover any labor cost associated with a warranty claim.
- **Non-Transferable:** This warranty is non-transferable and applies only to the original purchaser.

General Conditions:

- Original proof of purchase must be correctly registered with Harvia or one of its appointed distributors
- Harvia reserves the right to examine any part where replacement is claimed under warranty
- Warranty period applies only to the original purchaser from the date of purchase and is not transferable
- The product must be returned to your place of purchase in original packaging with transportation, insurance and associated charges paid for by you and risk of loss or damage assumed by you
- Harvia makes no other warranties except as stated here and expressly disclaims all warranties not stated in this warranty. Neither Harvia nor its associates shall be responsible for incidental or consequential damages
- Manufacturer's warranty automatically commences upon sale of the product to end user and expires upon 1 year (12 months) from the original sale date

Harvia reserves the right to update or modify this warranty as needed.

For warranty-related inquiries, please contact sales@harvia.us ; (877) 842-7842

