

# USER MANUAL

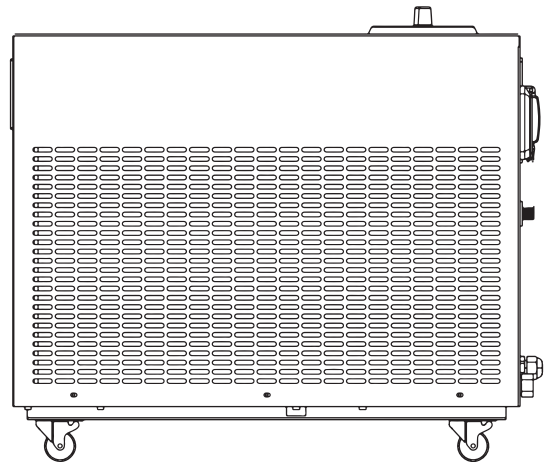
## ICE BATH CHILLER

MODEL NO.: F85

### IMPORTANT NOTE

Thank you for choosing our products.  
Please read this manual carefully and  
keep it for future reference.

# TURBRO



REFRIGERANT COMPRESSOR UNIT

## IMPORTANT!

PLACE THE UNIT IN AN UPRIGHT POSITION  
AND WAIT FOR 3-4 HOURS BEFORE FIRST USE



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## SAFETY INSTRUCTIONS

**DO NOT use this appliance until you have read the safety warnings and operating instructions.** Risk of fire, malfunction, property damage, electric shock, serious injury, or even death may result if warnings and instructions are not adhered to.

The manufacturer declines all responsibility for personal injury or damage to animals or objects caused by inappropriate use of the appliance, according to the warnings for installation, use, and maintenance described in this instruction manual.

This appliance is not to be used or have maintenance performed by persons with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given strict supervision or instruction concerning the use of the appliance by a person responsible for their safety.

- Keep the appliance out of reach of children and pets.
- If the unit is not secured or not installed, it may cause damage. The minimum support weight required for installation is 29.86lb/in<sup>2</sup>.
- If the unit was installed in a closed area or limited space, please consider the size of the room and ventilation to prevent suffocation caused by refrigerant leakage.
- Before working on systems with flammable refrigerants, conduct safety checks to minimize ignition risk.
- Checking for refrigerant presence. Use an appropriate, non-sparking refrigerant detector before and during work.
- Wrong wiring will cause a fire. Please connect the power wire accurately according to the wiring diagram in the manual to avoid burnout of the unit or fire.
- Be sure to use the correct material during installation. Wrong parts or wrong materials may result in fire, electric shock, or the unit falling.
- Use professional tools for doing electrical work. If the power supply capacity is insufficient or the circuit is not completed, it may cause fire or electric shock.
- The unit must have a grounding device. If the power supply does not have a grounding device, be sure not to connect the unit.
- The unit should only be removed and repaired by a professional technician. Improper movement or maintenance of the unit may cause water leakage, electric shock, or fire. Please find a professional technician to do this.
- Don't unplug or plug power during operation. It may cause a fire or an electric shock.

- Don't touch or operate the unit when your hands are wet. It may cause a fire or an electric shock.
- Don't place heaters or other electrical appliances near the power wire. It may cause a fire or an electric shock.
- The water must not be poured directly from the unit. Do not let water permeate into the electrical components.
- According to the instructions for carrying out drainage system and pipeline work, if the drainage system or pipeline is defective, water leakage will occur. It should be disposed of immediately to prevent other household products from getting wet and damaged.
- Do not clean the unit while the power is on. Turn off the power before cleaning the unit. If not it may result in injury from a high-speed fan or electric shock.
- Stop operating the unit once there is a problem or a fault code. Please turn off the power and stop running the unit. Otherwise, it may cause an electric shock or fire.
- Be careful when the unit is not packed or not installed. Pay attention to the sharp edges and fins of the heat exchanger.
- After installation or repair, please confirm that the refrigerant is not leaking. If there is not enough refrigerant, the unit will not work properly.
- The installation of the external unit must be flat and firm. Avoid abnormal vibration and noise.
- Don't put your fingers into the fan and evaporator, as the High-speed running fan will result in serious injury.
- **Detection of Flammable Refrigerants:** Do not use ignition sources for leak detection. Avoid halide torches.
- **Leak Detection Methods:** Use electronic leak detectors (calibrated in a refrigerant-free area) or leak detection fluids (avoid chlorine-containing detergents). Remove naked flames if a leak is suspected. Recover or isolate refrigerant before brazing.
- This device is not designed for people who are physically or mentally weak (including children) and who do not have experience and knowledge of heating and cooling systems. Unless it is used under the direction and supervision of a professional technician or has received training on the use of this unit. Children must use it under the supervision of an adult to ensure that they use the unit safely. If the power wire is damaged, it must be replaced by a professional technician to avoid danger.



## ELECTRICAL WARNING

**ELECTRICITY CAN CAUSE SEVERE INJURY OR DEATH. IN ORDER TO PREVENT ACCIDENTS OR DEATH, PLEASE PAY ATTENTION TO SAFETY, AND ENSURE YOU HAVE FULLY READ ALL THE WARNINGS AND THE INSTRUCTION MANUAL BEFORE USE.**

During and after transportation, the chiller unit must stay upright on a stable surface at all times.

After transportation and before use, the chiller must be left to stand for 3-4 hours to allow the refrigeration gas to settle.

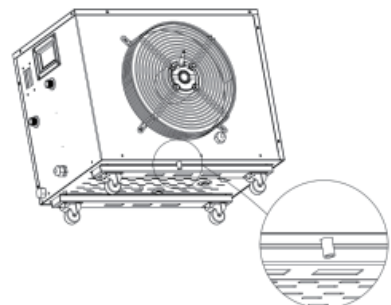
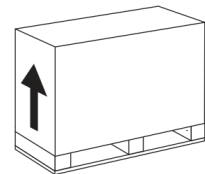
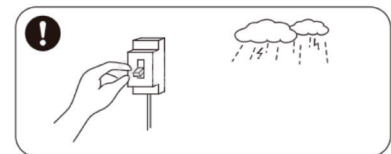
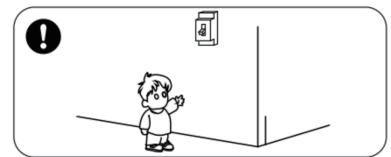
Make sure there are no water leaks from the chiller unit or the inlet and outlet pipes when connected to your ice bath.

Make sure the chiller unit is plugged into an AC socket that is suitable for use, properly grounded, has a built-in surge protector, and preferably is IP65 rated.

NEVER leave the chiller unit switched on when using your ice bath; always ensure the chiller unit is switched off during your cold water therapy session.

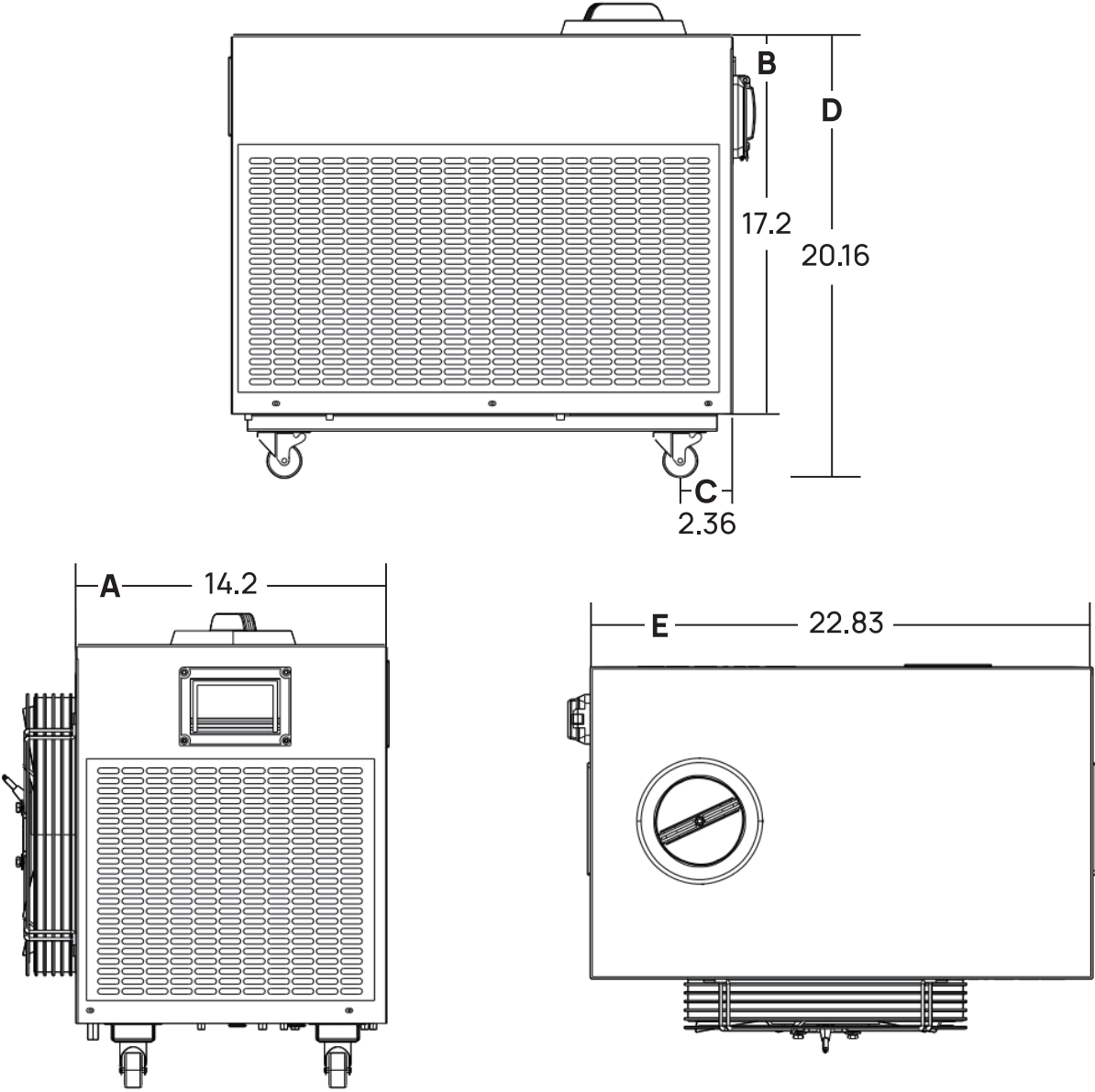
## Attention

- A. Please keep the main power supply switch far away from the children and pets.
- B. When a power cut happens during operation, and later the power is restored, the chiller will start up.
- C. Please switch off the main power supply in lightning and storm weather to prevent the machine from being damaged by lightning.
- D. Safety inspection must be carried out and plug-out before the maintenance or repair of the chiller with R32 gas in order to minimize the risk.
- E. Always keep the unit upright.
- F. Condensation water.  
Condensate will drain from the bottom of the unit while it is operating. Please note this, but no need for concern.



SYSTEM SPECIFICATION

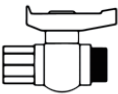
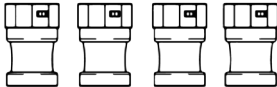
Dimensions(in) of the Unit



| Model | A        | B        | C       | D        | E        |
|-------|----------|----------|---------|----------|----------|
| F85   | 14.20 in | 17.20 in | 2.36 in | 20.16 in | 22.83 in |

## Accessories Supplied With the Unit

After unpacking, please check if you have all the following components.

| NO. | Components                  | Quantity | Appearance                                                                            |
|-----|-----------------------------|----------|---------------------------------------------------------------------------------------|
| 1   | User Manual                 | 1 pc     |    |
| 2   | Manual Ball Valve           | 1 pc     |    |
| 3   | Hair Filter                 | 1 pc     |    |
| 4   | Inlet and Outlet Water Pipe | 2 pcs    |  |
| 5   | 1/2" NPT Camlock Coupling   | 4 pcs    |  |
| 6   | Teflon Tape                 | 1 pc     |  |
| 7   | Water Pipe Adaptor          | 2 pcs    |  |

## Specification

|                                                                                             |                 |
|---------------------------------------------------------------------------------------------|-----------------|
| Model                                                                                       | FrostCore F85   |
| Test Condition: Ambient Temperature (DB/WB) 95°F/75.2°F;<br>Water Inlet Temperature 80.6 °F |                 |
| Max. Cooling Capacity                                                                       | 9,553 Btu/h     |
| Consumed Power                                                                              | 1,030 W         |
| EER(BTU/W)                                                                                  | 9.27            |
| General Information                                                                         |                 |
| Power Supply                                                                                | 110–120 V/60 Hz |
| Max. Input Current                                                                          | 14 A            |
| Running Temp. Range                                                                         | 36–109°F        |
| Refrigerant                                                                                 | R32/0.794 lbs   |
| Min. Water Outlet Temp.                                                                     | 37°F            |
| Rated Water Flow                                                                            | 3.5 GPM         |
| Max. High/Low Pressure                                                                      | 609/174 PSI     |
| Water Pipe Connection                                                                       | 1/2" NPT        |
| Waterproof Level                                                                            | IPX4            |

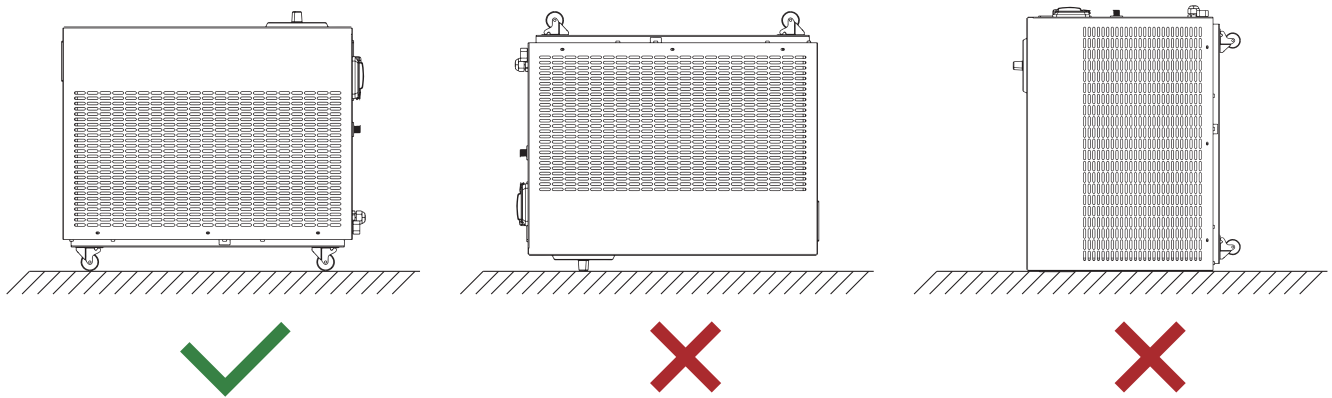
## INSTALLATION AND CONNECTION

**! WARNING:** The chiller must be installed by a professional team. The users are not qualified to install it by themselves, otherwise the chiller might be damaged and risky for users' safety.

This section is provided for information purposes only and must be checked and adapted if necessary according to the actual installation conditions.

### Transportation

When storing or moving the bath chiller, the bath chiller should be at the upright position.



### Installation Instruction

#### Location and Space

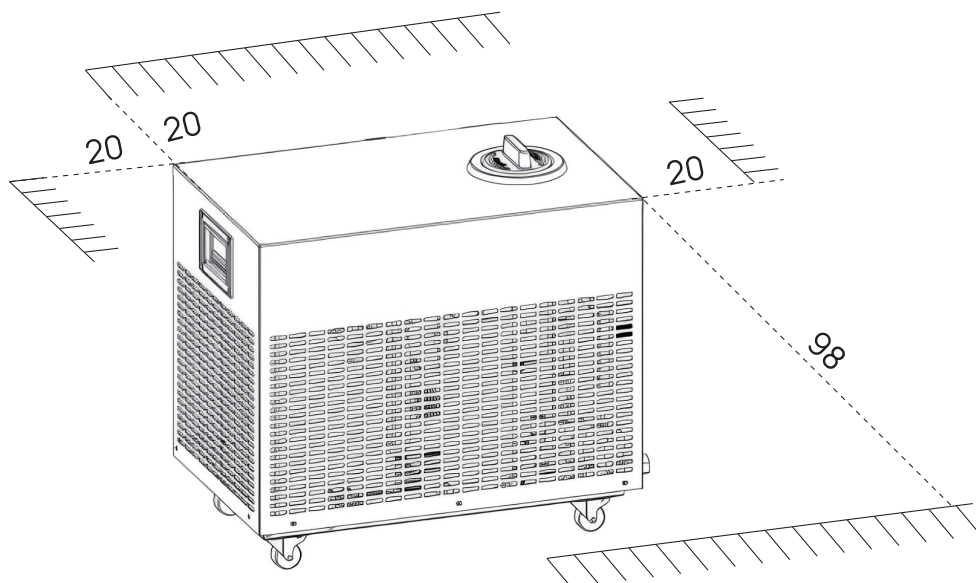
Please comply with the following rules concerning the choice of bath chiller location.

1. A floor drain device must be provided close to minimize damage from leaks.
2. Shut off the main water supply when away for long periods.
3. Avoid installing where leaks could damage nearby areas or lower floors. If unavoidable, use a drain pan with proper drainage.
4. The unit's future location must be easily accessible for convenient operation and maintenance.

5. Ensure that the floor is sufficiently stable and can support the weight of the unit.
6. If necessary, the unit may be raised by using suitable mounting pads designed to support its weight.
7. Ensure proper ventilation: air outlet should not face neighboring windows, and exhaust air must not recirculate. Maintain sufficient service space around the unit.
8. The unit must not be installed in an area exposed to oil, flammable gases, corrosive products, sulfur compounds, or close to high-frequency equipment.
9. To prevent mud splashes, do not install the unit near a road or track.
10. Position unit facing area least sensitive to noise to avoid disturbance.
11. Have dry powder or CO<sub>2</sub> fire extinguishers available for hot work on refrigeration equipment.
12. No ignition sources (including smoking) should be used near work areas where flammable refrigerants may be released. Display "No Smoking" signs.
13. Ensure the work area is open or well-ventilated before system access or hot work. Maintain ventilation during work.
14. Keep the appliance out of reach of children and pets.

## Installation Space

(Unit: inches)



Keep 98in clearance in front. Leave 20 in empty space on the sides/back. Keep the area above the unit clear for ventilation. There should be no obstacles above or in front.

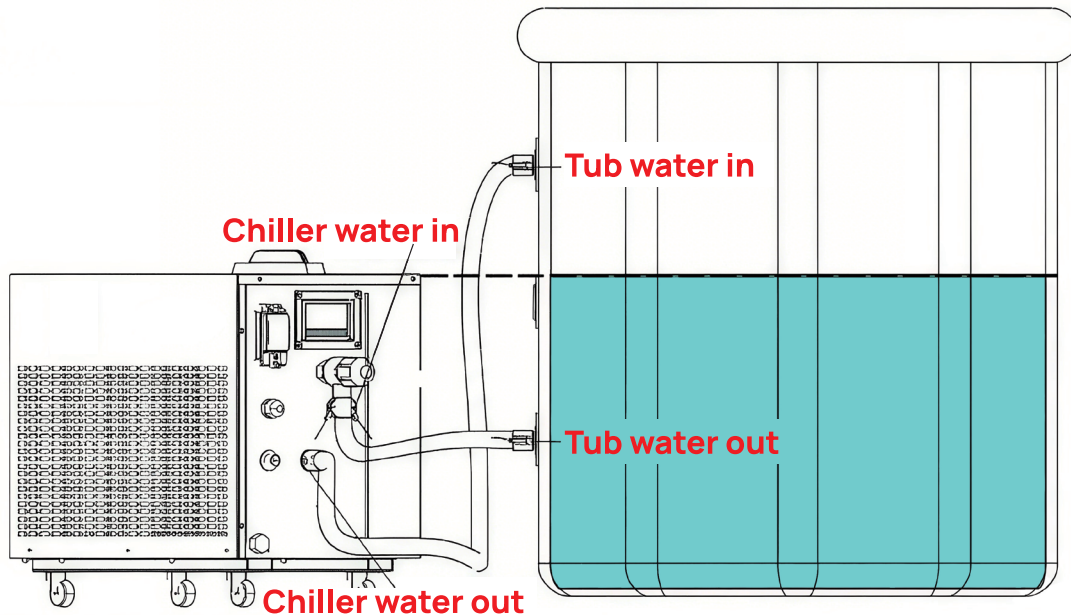
## Installation Layout

### Notice:

- The filter must be cleaned regularly to ensure that water in the system is clean and avoid blocking the filter.
- If the unit is not running during winter months, please disconnect the power supply and let out water from the unit through the drainage valve. If the ambient temperature is below 32°F, please do not use the machine to avoid damage and accidents.
- Before entering the tub, please turn off the ozone disinfection function.
- Be careful not to add an extra water pump, as high pressure can cause pipe damage and leakage, resulting in water leaks.

The installation diagram is shown in the following figures:

**Figure 1** If using a cold plunge tub with a water inlet and outlet.

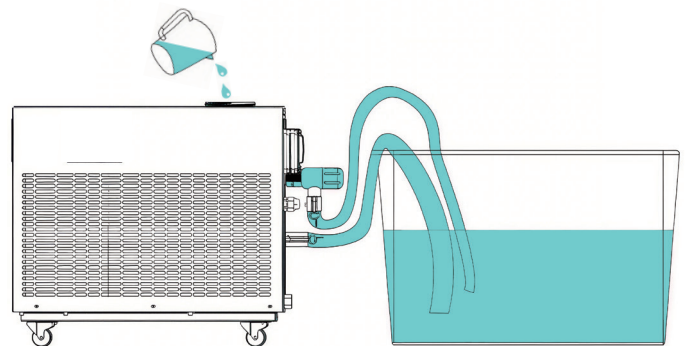


The water in the tub must be higher than the water inlet of the chiller so that gravity can feed the water into the pump and ensure smooth operation.

**Figure 2** If using a standard tub or pool without a water inlet and outlet.

**Step 1.** Fill the water into the chiller as follows.

Use a watering can to fill the top fill port with water.

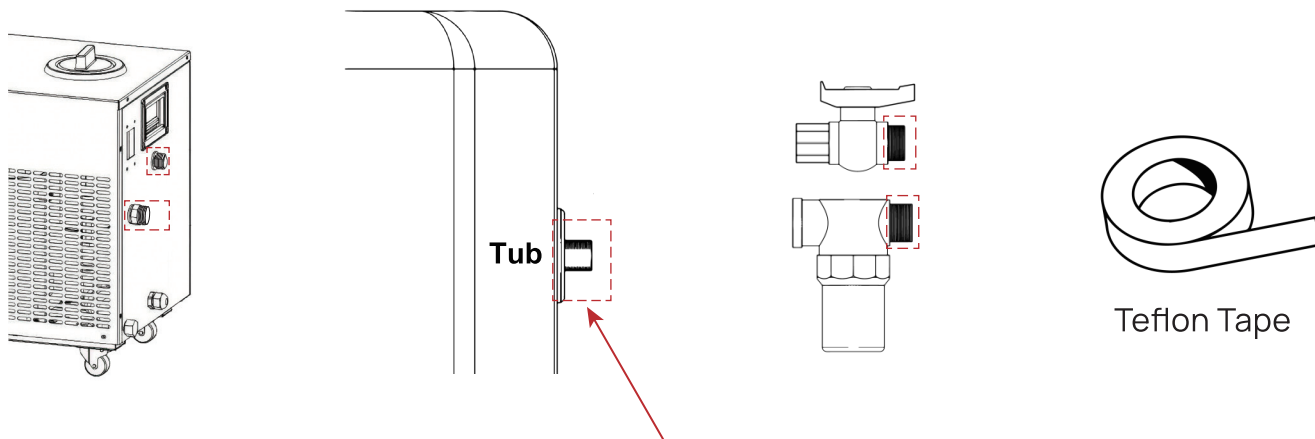


**NOTE:**

- The inlet and outlet water pipe should not be too close.
- The water inlet pipe should be placed underwater, but not too close to the bottom or wall of the bathtub.
- Ensure there are no air gaps or kinks in the line.
- Water flowing with steady bubbles - system is working correctly with chiller water pump on: if not, repeated manual filling of filtration until the pump holds a steady prime.

## Start Installation

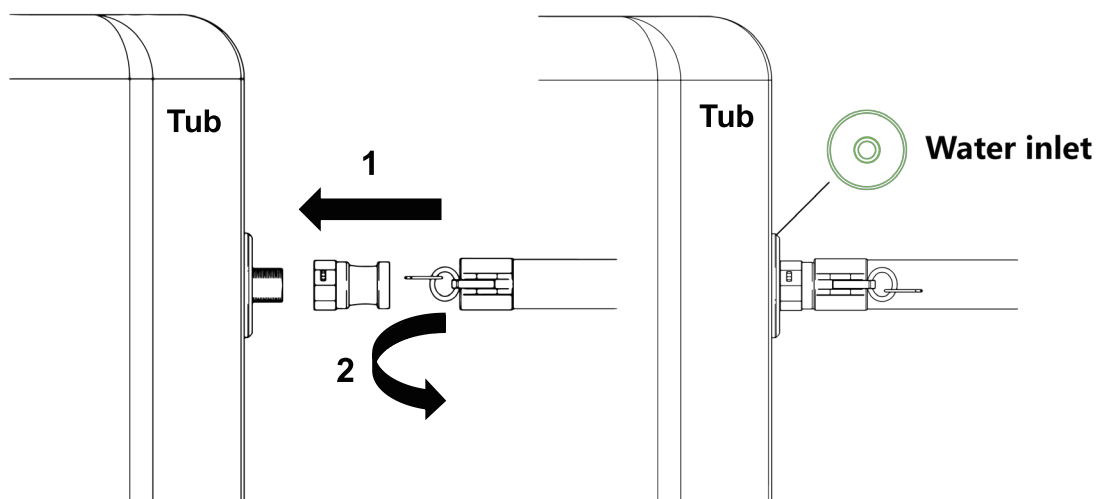
**Step 1.** Wrap the Teflon tape 9-10 laps on the parts that are screws threaded.



If your tub has 1/2" NPT internal threads, you may use the water pipe adapter included in the package to establish the connection.

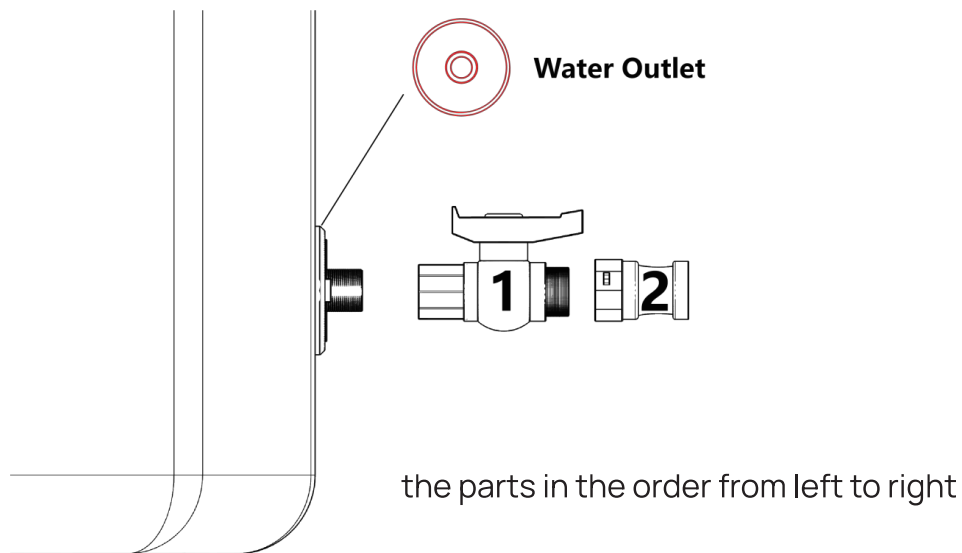
## Step 2. Install the water inlet.

Screw tight the camlock coupling to the tub, insert the water pipe into the camlock coupling, and then tighten it by pulling back the pole on the water pipe.

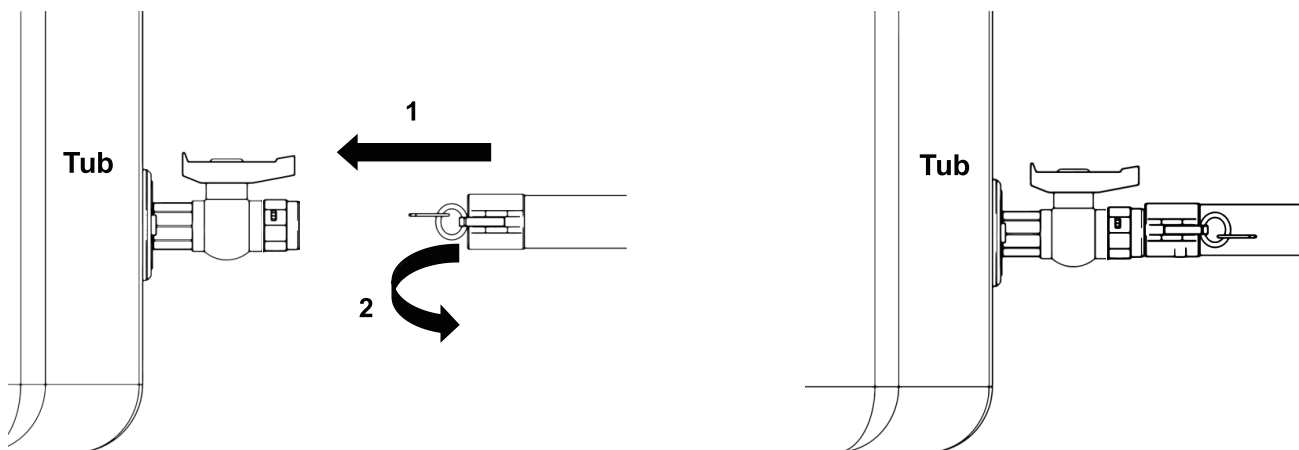


### Step 3. Install the water outlet.

Connect the tub's water outlet with the manual ball valve and camlock coupling.

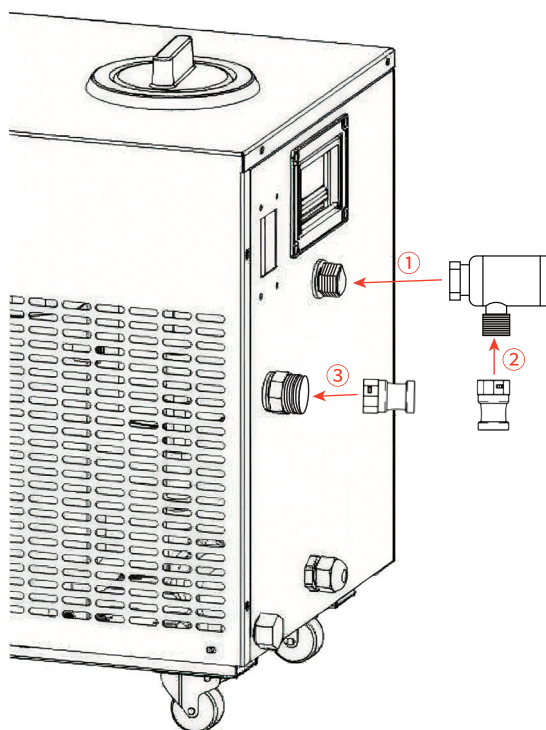


**Step 4.** Insert the water pipe into the camlock coupling, and tighten it by pulling back the pole on the water pipe.



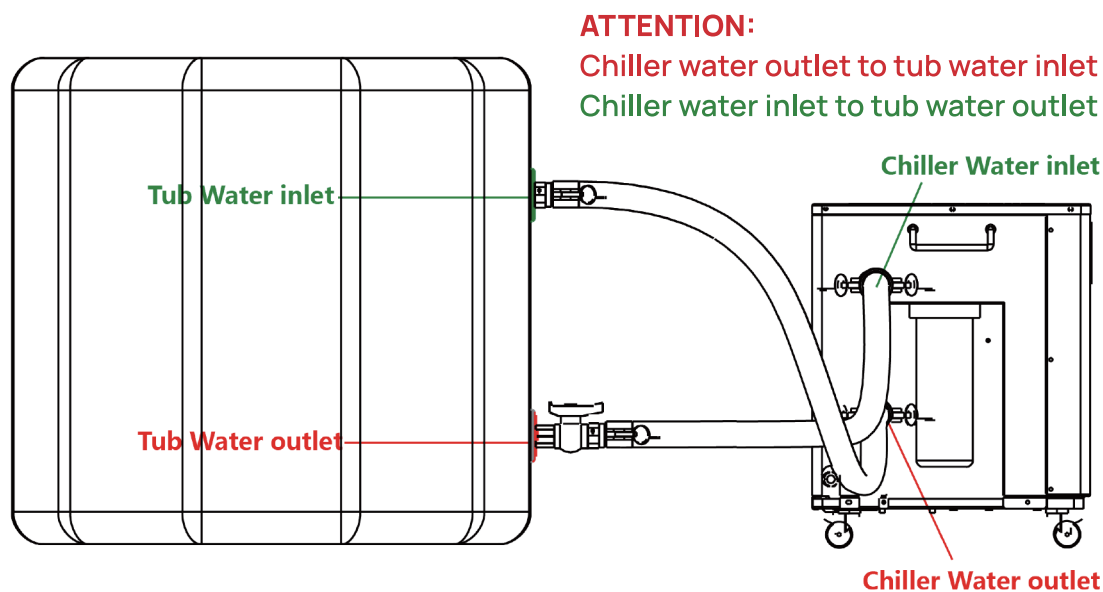
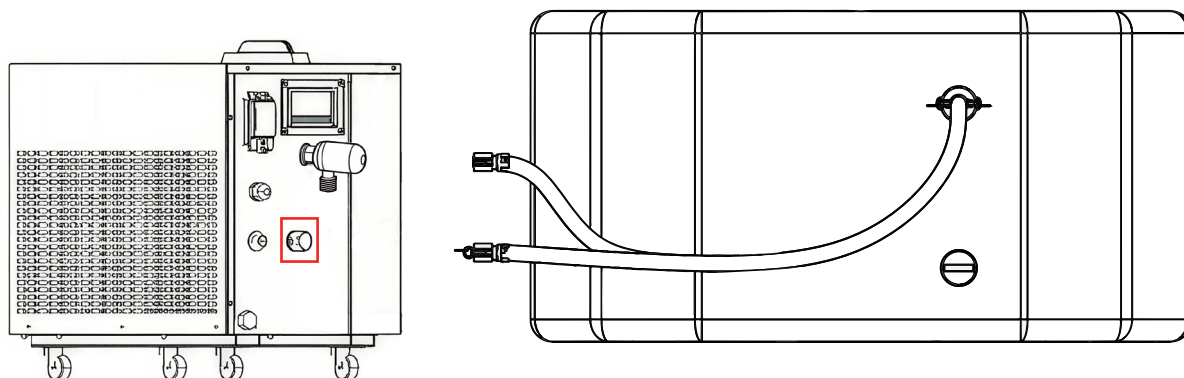
**Step 5.**

1. Install the hair filter onto the chiller's water inlet.
2. Install a camlock coupling onto the other end of the hair filter.
3. Install another camlock coupling onto the chiller's water outlet.

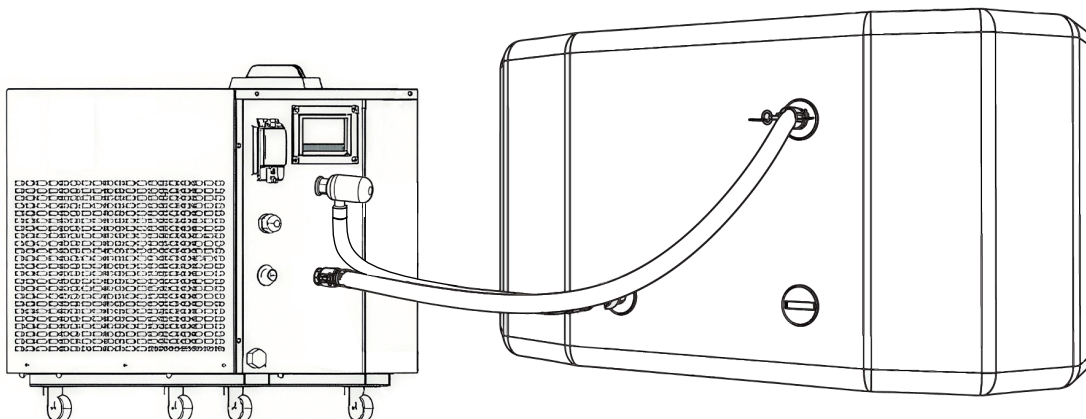


**NOTE:** MUST be tight well in case of any water flow error.

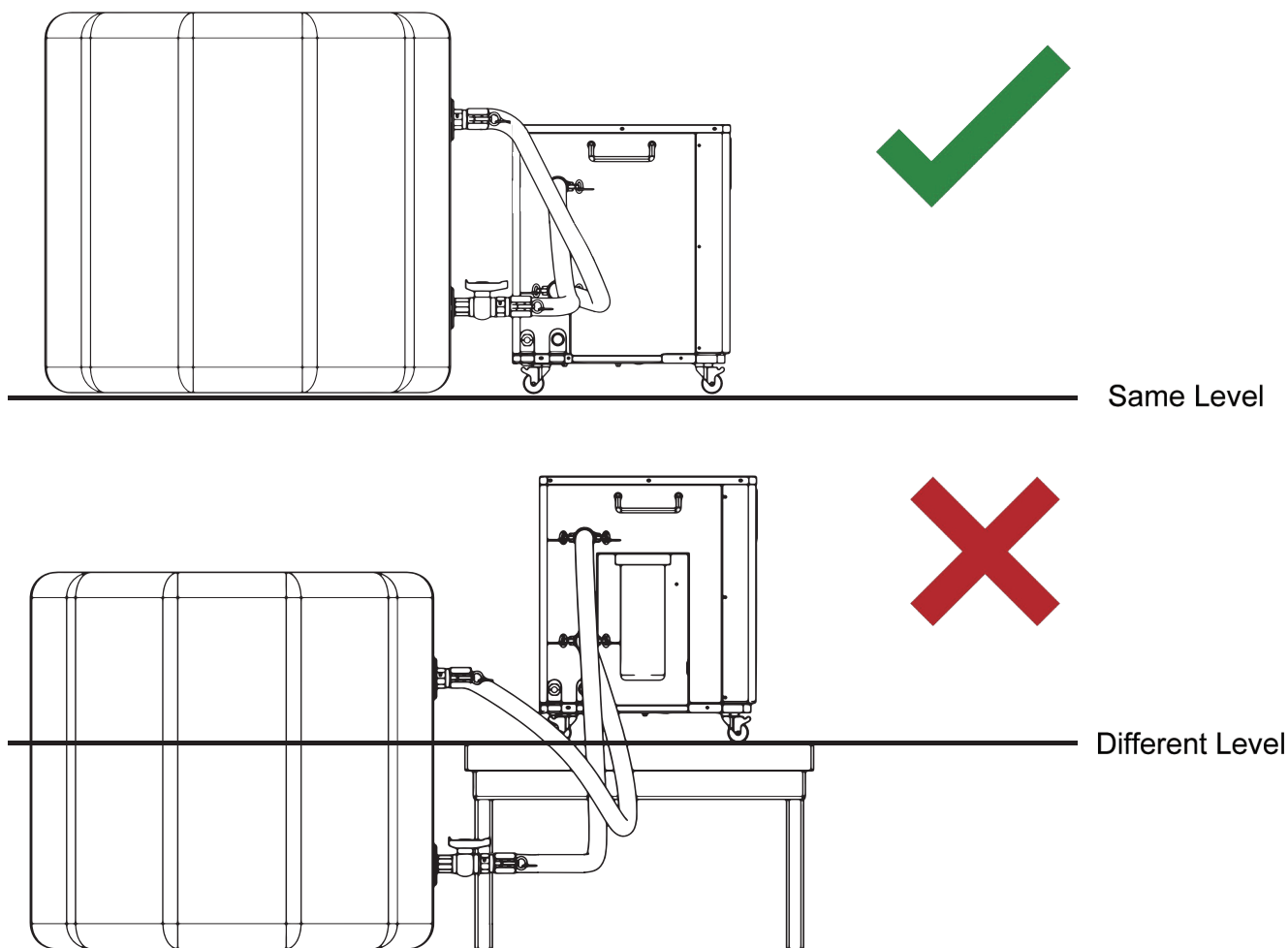
**Step 6.** Connect the inlet and outlet water pipes to the two camlock couplings installed in the previous step.



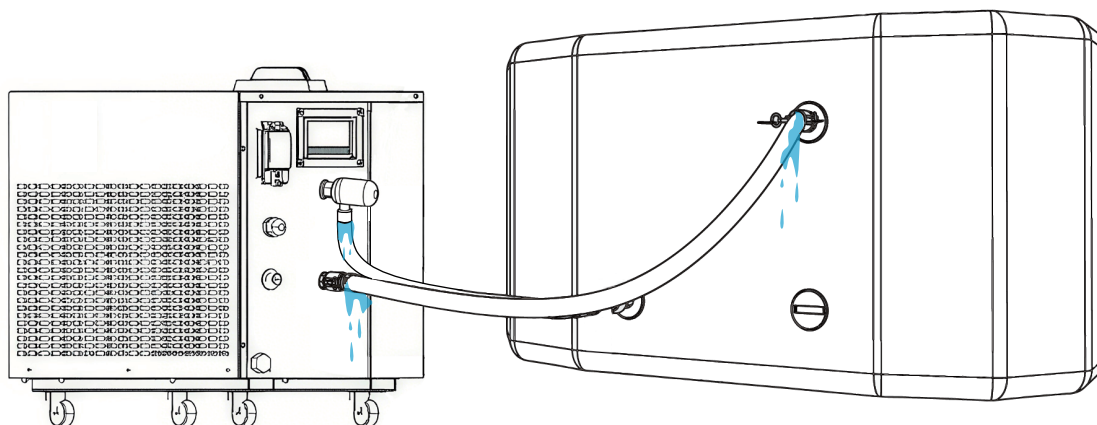
**Step 7.** Complete the connection.



Place the chiller and tub at the same level.



NOTE: Condensation water is easily generated on the outer wall of the water pipe (not caused by machine leakage), so it needs to be installed in a place where drainage is convenient.



Electrical Installation

To function safely and maintain the integrity of your electrical system, the unit must be connected to a general electricity supply in accordance with the following regulations:

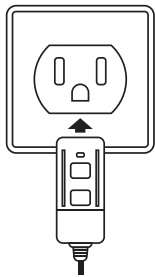
- 1. The general electricity supply must be protected by a 30mA differential switch.
- 2. The bath chiller must be connected to a suitable D-curve circuit breaker in accordance with current standards and regulations in the country where the system is installed.
- 3. The electricity supply cable must be adapted to match the unit's rated power and the length of wiring required by the installation. The cable must be suitable for outdoor use.
- 4. For a three-phase system, it is essential to connect the phases in the correct sequence. If the phases are inverted, the bath chiller's compressor will not work.
- 5. In places open to the public, it is mandatory to install an emergency stop button close to the bath chiller.

| Model | Power Supply       |
|-------|--------------------|
|       | Electricity Supply |
| F85   | 110–120 V/60 Hz    |

**! WARNING:** The power supply of the bath chiller must be disconnected before any operation. Please comply with the following instructions to connect the bath chiller.

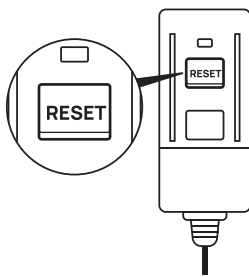
Step 1

Plug into the receptacle.  
(Plug Power Supply: 110–120 V/60 Hz)



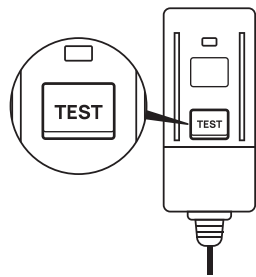
Step 2

Press the “reset” button, the indicator will light red.



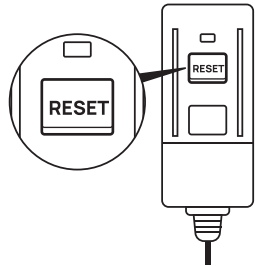
Step 3

Press the “test” button, the indicator should be off.



Step 4

Press the “reset” button to turn on the ice bath water chiller.  
Note: Do not use it if the test fails (the light does not turn off after pressing the “test” button).



## Trial After Installation

**⚠ WARNING:** Please check all the wiring carefully before turning on the bath chiller.

## Inspection Before Trial Running

Before the test run, verify these items and check (✓) each box:

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| <input type="checkbox"/> | Correct unit installation                                  |
| <input type="checkbox"/> | The power supply voltage is the same as unit rated voltage |
| <input type="checkbox"/> | Correct piping and wiring                                  |
| <input type="checkbox"/> | The air inlet & outlet port of the unit is unblocked       |
| <input type="checkbox"/> | Drainage and venting are unblocked and no water leaking    |
| <input type="checkbox"/> | The leakage protector is working                           |
| <input type="checkbox"/> | Piping insulation is working                               |
| <input type="checkbox"/> | The ground wire is connected correctly                     |

## Trial Running

**Step 1:** Running test can begin after completing all installation;

**Step 2:** Empty all air within pipes and water tank, press the "on-off" button on the control panel to run the unit at the set temp.;

**Step 3:** Items need to be checked during the running test:

1. During the first run, the unit current is normal or not?
2. Each function button on the control panel normal or not?
3. Display screen is normal or not?
4. Is there any leakage in the whole circulation system?
5. Condensate drain is normal or not?
6. Are there any abnormal sounds or vibrations during running?

CONTROLLER OPERATION GUIDANCE



| NO. | Item             | Icon | NO. | Item            | Icon |
|-----|------------------|------|-----|-----------------|------|
| 1   | Function or Mode |      | 7   | Cooling Mode    |      |
| 2   | Clock            |      | 8   | Wi-Fi           |      |
| 3   | Up               |      | 9   | Alarm           |      |
| 4   | Down             |      | 10  | Lock            |      |
| 5   | ON/OFF           |      | 11  | Timer ON/OFF    |      |
| 6   | Disinfection     |      | 12  | Real-time Clock |      |

## Key Operating Instruction

| NO. | Item                         | Operation Way                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | ON/OFF                       | Under the main interface, press  to turn on/off.<br>If the Lock icon  lights up, please press  for 3 seconds to unlock when turning on the unit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2   | Lock/Unlock                  | <ul style="list-style-type: none"> <li>Press  for 3 seconds to unlock the unit. Lock icon  will turn off.</li> </ul> (The screen will lock automatically after 60 seconds of inactivity. Lock icon  will light up.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 3   | Disinfection                 | <ul style="list-style-type: none"> <li>Press  for 3 seconds to start the disinfection function, icon  will occur.</li> <li>Press  for 3 seconds again to stop the disinfection function, icon  will disappear.</li> </ul> (The machine will automatically turn off the disinfection function after 20 minutes.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 4   | Real-Time Clock Setting      | <ul style="list-style-type: none"> <li>In the main interface, press  for 3 seconds to enter the clock setting. Hours and minutes will flash together.</li> <li>Press  to select hours (hours will flash, minutes will stop). Press  or  to adjust the hour.</li> <li>Press  again to select minutes (minutes will flash, hours will stop). Press  or  to adjust the minutes.</li> <li>Press  again to confirm the real-time clock setting and short press  to return to the main interface.</li> </ul> (Settings will save automatically and return to the main interface after 30 seconds of inactivity.) |
| 5   | Temperature Setting          | Under the main interface, press  or  to adjust the set temperature. Settings will save automatically and return to the main interface after 3 flashes with no operation.<br>(The machine is cooling only—no heating. It will not operate if the set temperature is higher than the water inlet temperature.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 6   | Return to the Main Interface | Press  to return to the main interface.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| NO. | Item            | Operation Way                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7   | Reset Operation | <p>During the standby period (turn off), long press  and  for 5 seconds to restore the unit's settings to factory defaults.</p> <p>Note: This operation should not be repeated frequently, and each attempt should be performed with a gap of at least 30 seconds.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 8   | WIFI Setting    | <p>Press and hold the  and  at the same time for 3 seconds to enter the distribution network. The  icon will flash slowly.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 9   | Timer Setting   | <ul style="list-style-type: none"> <li>● Press  to enter the "group 1" timer setting. Press  again to enter the "1 ON" hour setting, then press  or  to set the startup hours of the timer. After setting the hour, press , minute digits flash. Press  or  to set the minutes of timer 1 ON, then press  again to confirm the setting.</li> <li>● After the timer 1 ON setting is completed, it will automatically enter the timer 1 OFF setting state to set the scheduled shutdown time. The setting method is the same as above.</li> <li>● After the "group 1" timer is set, press  or  to enter the "group 2" timer settings. The setting method is consistent with the timer group 1.</li> <li>● When timer group 1 or 2 is flashing, long press  to confirm the current timer setting, and the icon  will appear.</li> <li>● To cancel the set timer, enter the group 1 or 2 setting page. When timer group 1 or 2 is flashing, long press  for 3 seconds, and the icon  will disappear.</li> </ul> <p><b>(In a group of timer settings, if the startup time and the shutdown time are the same, the timer group will be invalid.)</b></p> |

## APP CONTROL

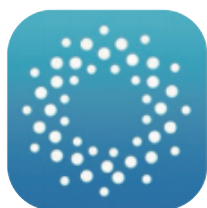
### Step 1

Preparation before connecting:

- Make sure your Wi-Fi router supports 2.4GHz (NOT 5GHz) and 802.11b/g/n bands.

**Note:** Most 5GHz routers can also be set to a 2.4GHz band or dual band.

- Make sure the Wi-Fi name and password are correct.
- Make sure your smartphone or tablet supports a 2.4GHz network.
- Download the App named **AIR.ai** from the App Store (iOS devices) or Google Play (Android devices)

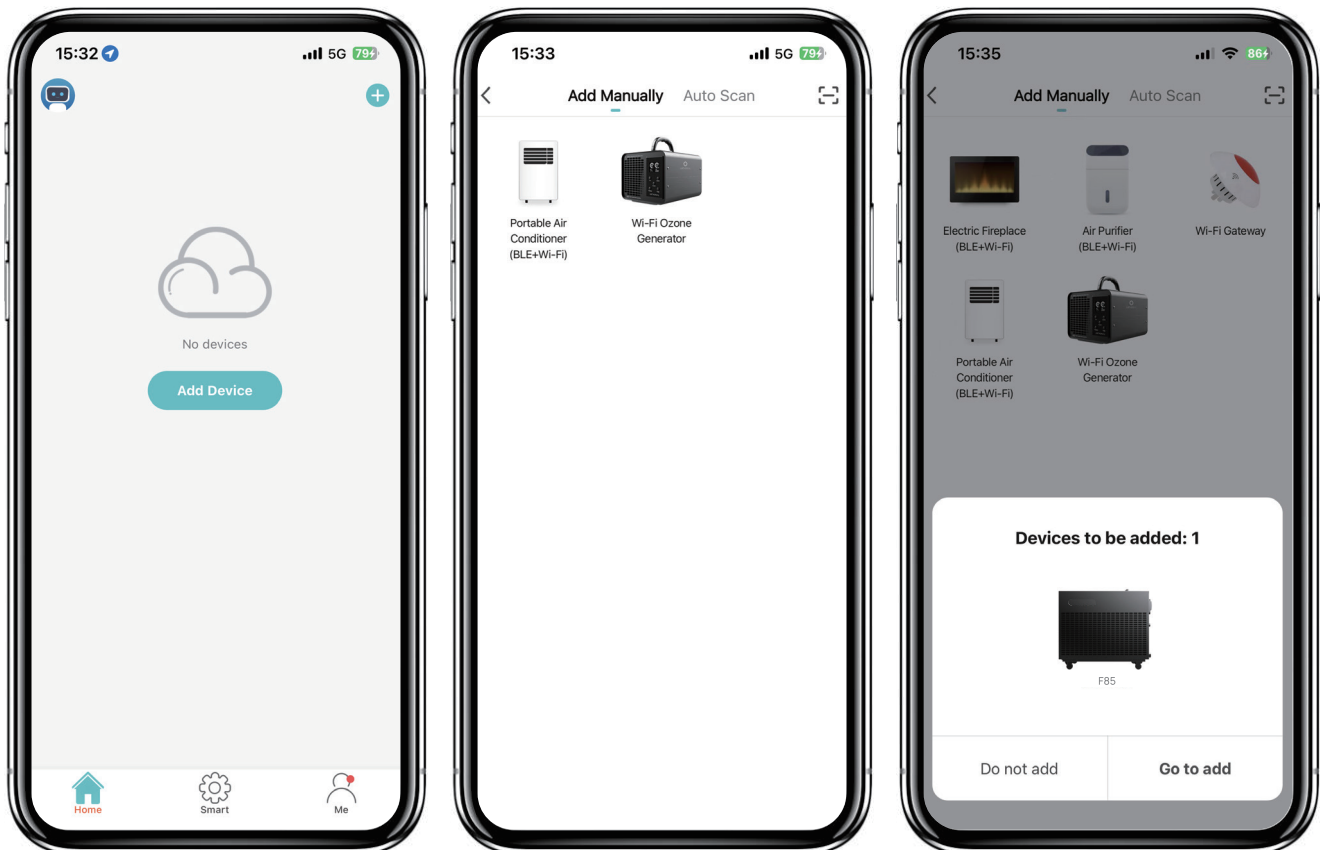


AIR.ai



## Step 2

- Connect your phone to the 2.4 GHz wireless network of your ice bath water chiller.
- Press and hold  and  at the same time for 3 seconds to enter the distribution network. The  icon will flash slowly.
- Open AIR.ai and tap the “+” icon in the top right corner.
- The add device page will appear. Tap “Go to add.”



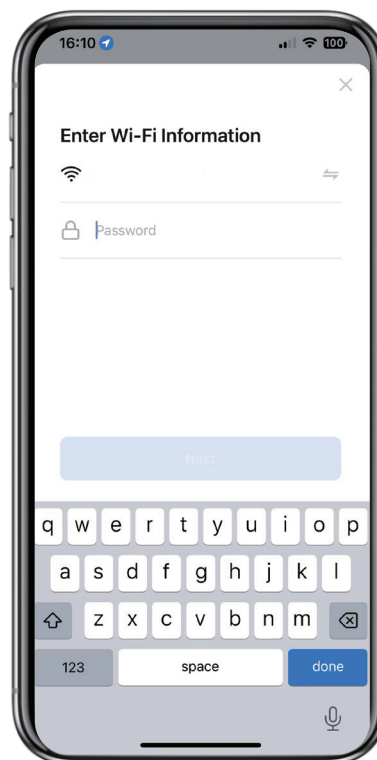
## Step 3

Tap “Next.”

Enter the password of your Wi-Fi network when prompted (same Wi-Fi network to which your smartphone is connected) then click next.

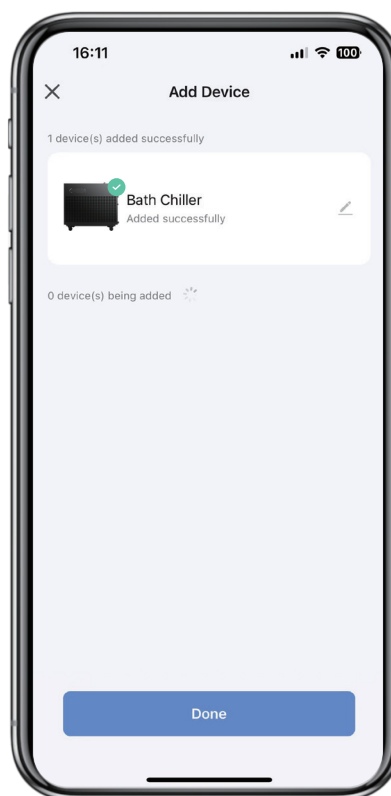
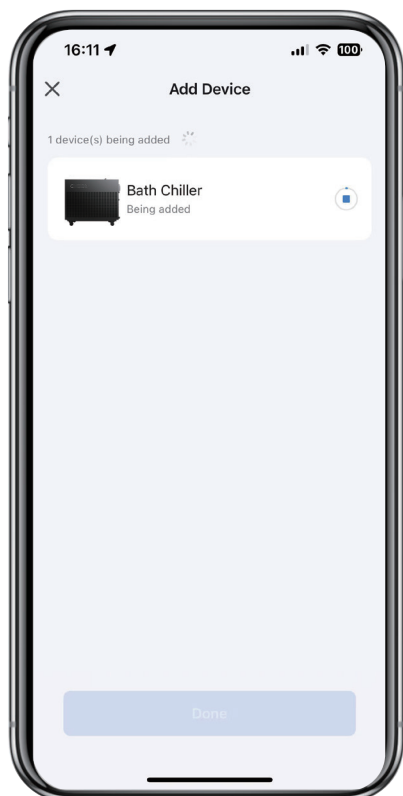
### Important note:

The ice bath water chiller must be connected to a 2.4 GHz Wi-Fi network. If your router broadcasts 2 Wi-Fi bands (2.4GHz and 5GHz), consult your router user manual to learn how to select the 2.4 GHz Wi-Fi band.



## Step 4

Your device is now connected. You can find the ice bath water chiller in the device list.

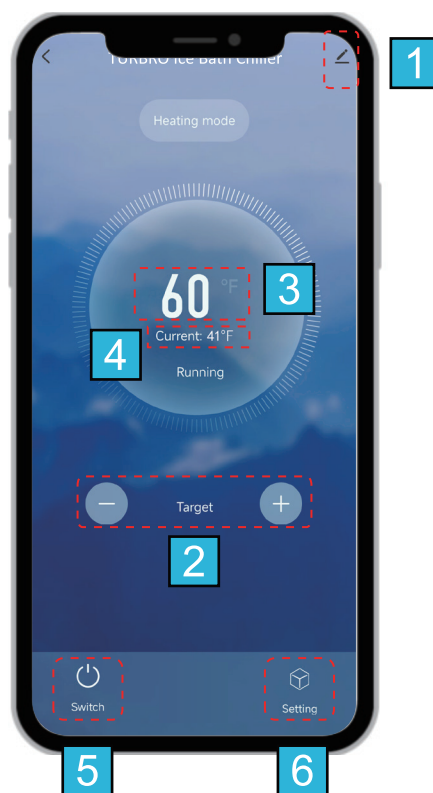


## APP Operation

### ● Home Page

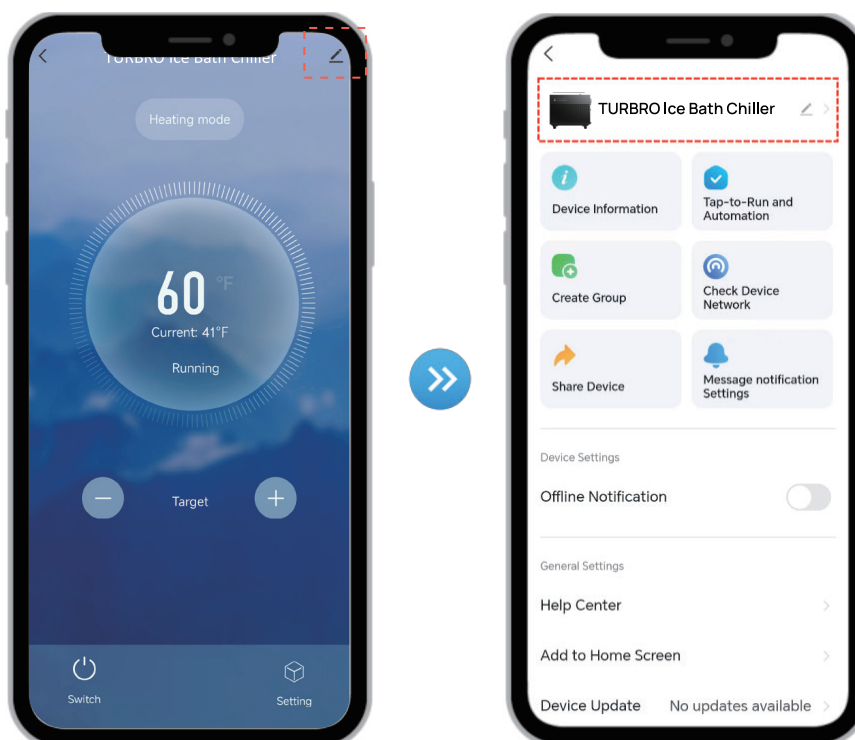
In the main interface, click "ice bath water chiller " to enter the operation interface.

- 1 More Settings
- 2 Setting
- 3 Target Temperature
- 4 Current Temperature
- 5 ON/OFF
- 6 Timer Setting



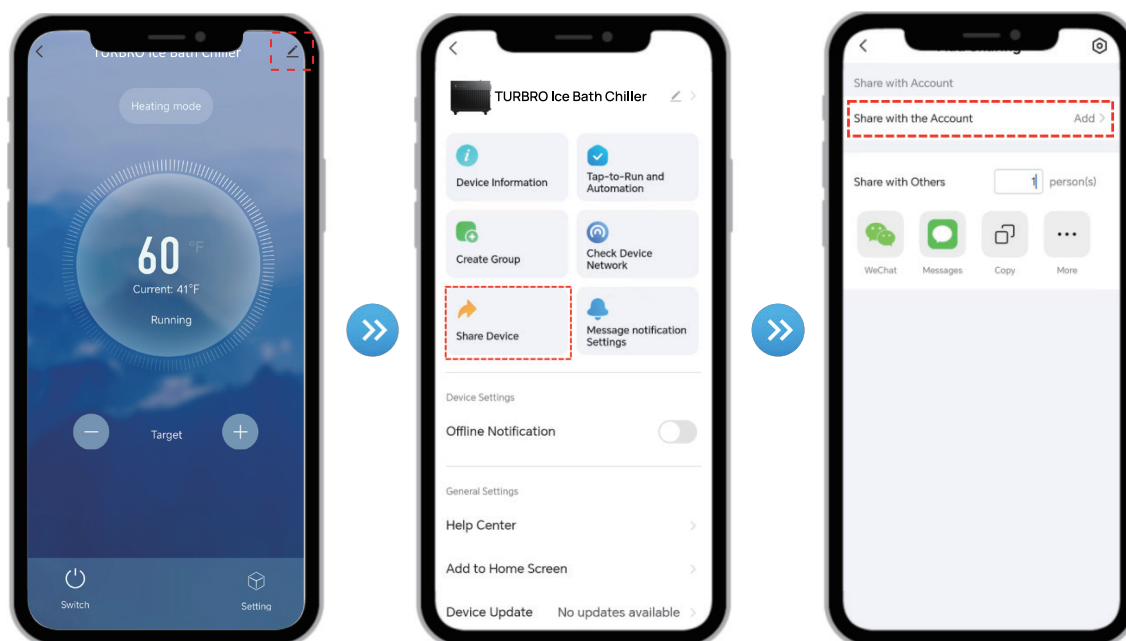
### ● Modify Device Name

Click in the following order to enter device details, and click "Device Name" to rename the device.

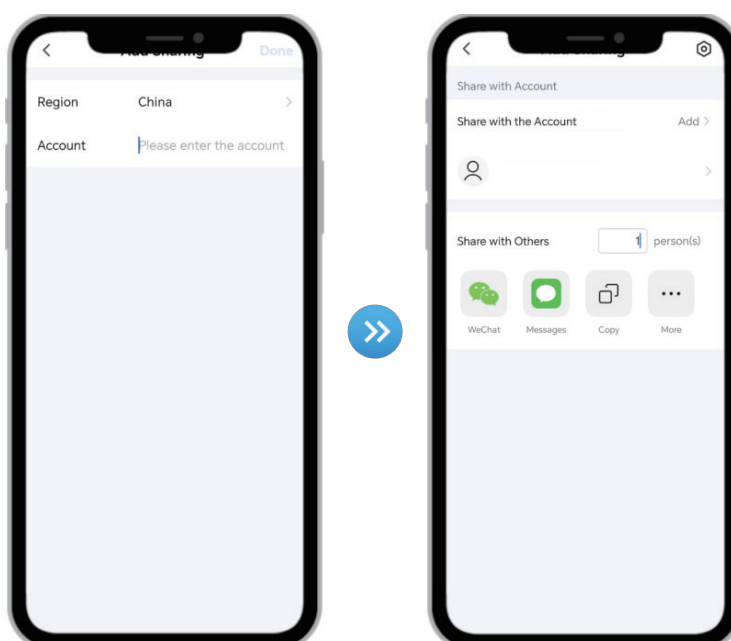


## ● Device Sharing

1. To share a bound device, the user should do so in the following order.
2. After successful sharing, the list will be added to show the person shared
3. If you want to delete the account you shared, cross the selected account to the left, and delete it.
4. The user interface is as follows.

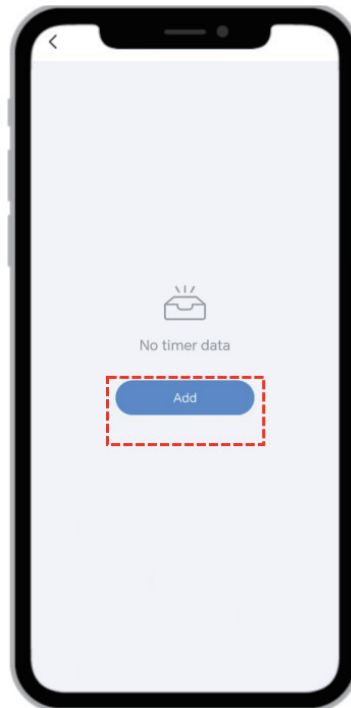


5. Enter the account of the shared, the share success list shows the newly added account of the Shared.

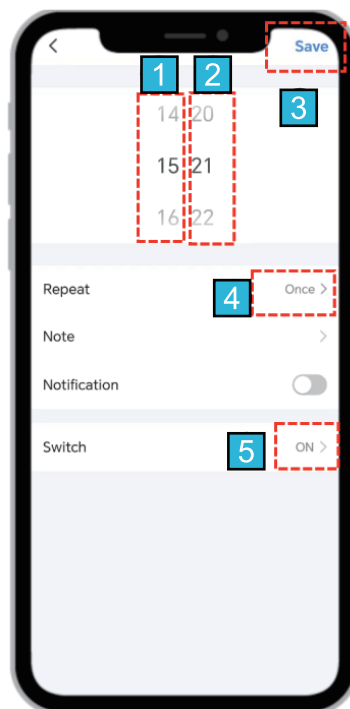


## ● Timer Setting

1. Click  on the main interface to enter the timer setting interface, as shown below, and click to add the timer.



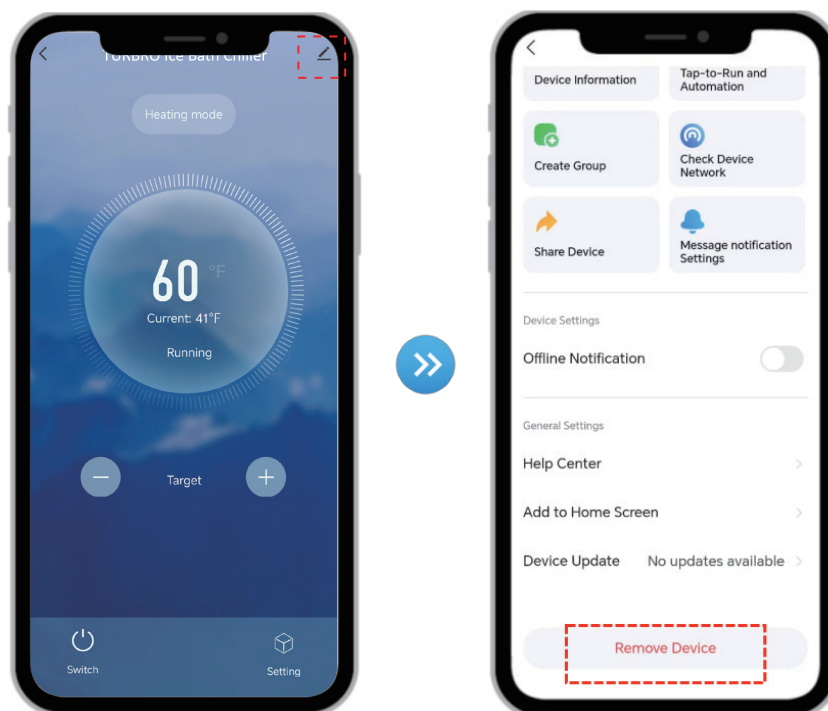
2. After entering the timer setting, swipe up/down to set the timer. Set up repeat pattern and on/off status, then click "save" to save your settings as follows.



- 1 Hours
- 2 Minutes
- 3 Save
- 4 Repeat Pattern
- 5 Timer ON/OFF

## ● Device Removal

Click on the top right corner of the main interface to enter the device details interface, and click “device removal” to remove.



## MAINTENANCE AND ANTI-FREEZING

### Required Maintenance Schedule



**WARNING:** Before undertaking maintenance work on the unit, ensure that you have disconnected the electrical power supply.

#### Daily:

- Check water level
- Monitor temperatures
- Verify normal operation

#### Weekly:

- Clean debris from air intake
- Check water chemistry
- Inspect for leaks

#### Monthly:

- Clean or replace filter
- Check electrical connections
- Test safety systems

#### Quarterly:

- Professional inspection
- Complete system cleaning
- Performance verification

#### Annual:

The following operations must be undertaken by a qualified person at least once a year.

- Carry out safety checks.
- Check the integrity of the electrical wiring.
- Check the earthing connections.
- Monitor the state of the pressure gauge and the presence of refrigerant.

## Cleaning

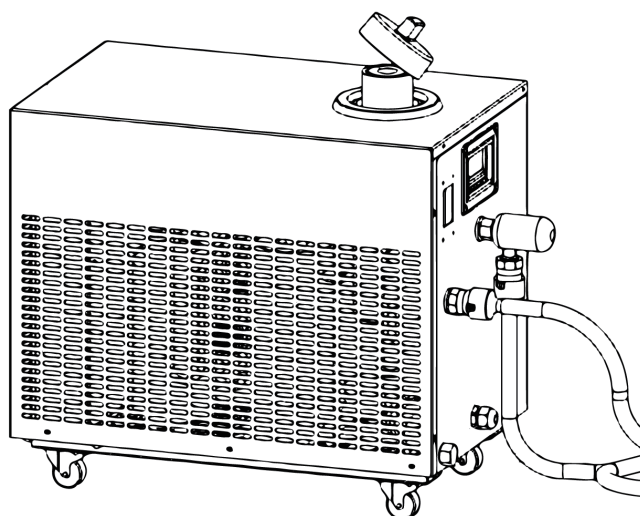
- The bath chiller's casing must be cleaned with a damp cloth. The use of detergents or other household products could damage the surface of the casing and affect its properties.
- The evaporator at the rear of the bath chiller must be carefully cleaned with a vacuum cleaner and soft brush attachment.
- Never clean the chiller with strong bleach-based detergents.
- Do not put corrosive disinfectants into the water, such as chlorine tablets
- Hair filter: clean every 2 weeks. (close the manual ball valve, unscrew the air filter, and then open it for cleaning.)

## Filter Replacement

It is recommended to check the filter element every month. If the filter element is dirty, it needs to be replaced according to the following steps:

1. Unscrew the filter cover.
2. Remove old filter and insert new filter.
3. Screw the cover.

**NOTE:** Replace every 2-4 weeks, depending on usage and environment.



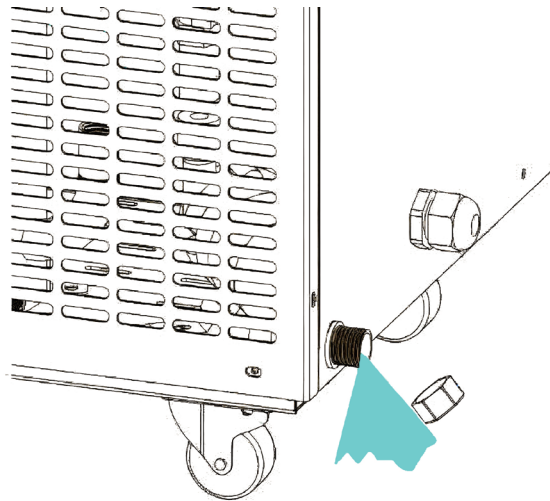
## Anti-Freezing



**CUT OFF the power supply of the chiller before cleaning, examining, and repairing.**

In the winter season when you don't use the bath chiller:

- a. Cut off the power supply to prevent any machine damage.
- b. Drain water clear of the machine.



### **Important:**

Never place the chiller outside in temperatures below 34°F when it contains water inside.

Unscrew the drain plug to let the water flow out. When the water in the machine freezes in the winter season, the titanium heat exchanger may be damaged.

Cover the machine body when not in use.

## TROUBLESHOOTING

### Fault Codes

| Code | Cause                                                              |
|------|--------------------------------------------------------------------|
| E01  | Exhaust temperature failure                                        |
| E05  | Coil temperature failure                                           |
| E09  | Return gas temperature failure                                     |
| E19  | Inner coil temperature failure                                     |
| E18  | Outlet water temperature failure                                   |
| E21  | Communication failure                                              |
| E22  | Ambient temperature failure                                        |
| P01  | Water flow switch failure                                          |
| P02  | High-pressure protection                                           |
| P06  | Low-pressure protection                                            |
| P11  | Exhaust temperature too high protection                            |
| P15  | Excessive inlet & outlet water temperature differential protection |
| P16  | Lower water temperature protection for cooling                     |
| P17  | Anti-freezing protection                                           |

## Solution

| NO. | Phenomenon                                                      | Cause                                                                                                        | Solution                                                                                                                                                      |
|-----|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Unit not running                                                | 1. Power outage<br>2. Power switch not connected<br>3. Power switch fuse burned out<br>4. Timing not reached | 1. Wait for the power supply recovery<br>2. Connect power<br>3. Replace fuse<br>4. Wait or cancel timing setting                                              |
| 2   | Unit not running after startup                                  | Compressor protection delay active                                                                           | Wait for protection time to end                                                                                                                               |
| 3   | Unit running normally but not reaching demand water temperature | 1. Dirty filter element<br>2. Air inlet or outlet blocked (indoor or outdoor unit)                           | 1. Replace the filter element<br>2. Clear air inlet/outlet obstruction                                                                                        |
| 4   | Unit running automatically                                      | Startup time reached                                                                                         | Manually shut down or cancel timing if startup is not needed                                                                                                  |
| 5   | Anti-freeze protection                                          | 1. Low ambient temperature operation<br>2. Low water temperature                                             | 1. Exit anti-freeze mode when ambient temperature $\geq 35.6^{\circ}\text{F}$<br>2. Exit anti-freeze mode when inlet water temperature $> 59^{\circ}\text{F}$ |
| 6   | Displaying fault codes                                          | /                                                                                                            | Contact the TURBRO Service team for help                                                                                                                      |

## WARRANTY INFORMATION

This **1-year** limited warranty is extended to the original purchaser of this product and warrants against any defect in materials and workmanship under normal use and conditions, for a period of one year from the date of the original purchase, subject to the conditions and limitations outlined below.

This warranty is non-transferable to any subsequent owner of the product regardless of whether the product is transferred during the specified term of the warranty.

THIS LIMITED WARRANTY IS GIVEN TO THE PURCHASER IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE.

### What is covered?

- TURBRO's warranty extends only to products purchased from authorized sellers that are subject to TURBRO's quality controls and have agreed to follow its quality controls.
- This warranty is limited to the repair or replacement of part(s) proved to be defective in material or workmanship after said defect is confirmed by the manufacturer's inspection.
- The manufacturer may, at its discretion, fully discharge all obligations with respect to this warranty by refunding the wholesale price of the defective part(s).

UPON THE EXPIRATION OF THIS WARRANTY, ALL SUCH LIABILITY WILL TERMINATE. NO OTHER WARRANTIES ARE EXPRESSED OR IMPLIED ANYMORE.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

### What is not covered?

- Damage or losses caused by any alterations or unauthorized repair made to the product by the owner.
- Damage or losses caused by accident, neglectful operation, misuse, abuse, or use contrary to the user manual and safety guidelines.
- Damage or losses occurring during commercial use, rental use, or any use for which the product is not intended.
- Damage or losses caused by improper or inadequate maintenance.

- Failure to perform general maintenance (including cleaning).
- Use of non-standard parts or accessories.
- Natural depreciation and normal wear and tear.

TURBRO SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW.

Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

## How to request warranty services?

To obtain the benefit of this warranty please leave a message online ([www.turbro.com/contact](http://www.turbro.com/contact)), or send an email to [support@turbro.com](mailto:support@turbro.com).

To express our gratitude to you for choosing us, we are giving you a **1-year** warranty extension to the original 1-year manufacturer's limited warranty, extending the coverage period to two years in total.

- Complete the registration of your new product at <https://www.turbro.com/warranty> within 90 days from the date of package delivery (inclusive of the 90th day).
- Any registration beyond this stipulated period will be deemed invalid.
- The ultimate interpretation of the terms and conditions related to the extended warranty service rests solely with TURBRO.

If you discover that your product is defective within the specified warranty period, please contact our Customer Support via [support@turbro.com](mailto:support@turbro.com).

- Order ID and invoice, or bill of sale should be provided. Such payment records must be kept to verify the purchase date and establish a warranty period.
- Model and issue description should be provided in detail, preferably with pictures and videos.
- DO NOT dispose of your product before contacting us.
- DO NOT return the product unless instructed by our customer service.
- The original carton should be kept in case of warranty return of the unit.

## What will TURBRO do?

- Replace certain parts.
- Replace the item.
- Refund the item under certain circumstances.

In no event shall liability exceed the purchase price paid by the original purchaser of the product.

Any instructions or warranty included in this manual may be subject to change without notice. For the most up-to-date instructions and warranty information, please contact us via **support@turbro.com**.

## FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

## FCC RADIATION EXPOSURE STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instructions as documented in this manual. This transmitter must not be co located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

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**WARNING:**  
**Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



EPA EST NO: 104906-CHN-1

# **TURBRO**



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V20250818