

# **INSTRUCTION MANUAL FOR ICE-BATH CHILLER**

(Ver.: 251228MIQV14)



ENJOY YOUR HEALTHY LIFE WITH ICE-BATH CHILLER



PLEASE MAKE SURE THE AC OUTLET MUST BE PROPERLY GROUNDED



Congratulations on your purchase of an ice-bath chiller, to ensure proper installation and operation, please read this manual carefully, thanks!

## **1. WARNINGS!**

ELECTRICITY IS VERY DANGEROUS, IN ORDER TO PREVENT ACCIDENTS, PLEASE PAY ATTENTION TO SAFETY.

1. PLEASE MAKE SURE THE LOCAL ELECTRICITY IS SUITABLE FOR THE CHILLER BEFORE USING.
2. PLEASE MAKE SURE THE AC OUTLET MUST BE PROPERLY GROUNDED.
3. PLEASE DON'T FORGET TO TEST THE RESIDUAL CURRENT CIRCUIT BREAKER (RCD/GFCI) BEFORE TAKING A BATH, MUST NOT USE THE CHILLER ANY MORE IF IT HAS ANY PROBLEMS.
4. PLEASE NEVER PUT THIS CHILLER INTO THE WATER, AND IT MUST NOT BE IMMERSED IN WATER, ESPECIALLY IN OUTSIDE, PLEASE MUST NOT USE IT ANY MORE AFTER IMMERSION, THAT WOULD BE VERY DANGEROUS, ALSO DON'T SPRAY THE CHILLER WITH WATER. PLEASE LET IT HAS A WATERPROOF SHELTER ON THE TOP IF PLACING IT OUTDOOR.
5. ALTHOUGH THIS CHILLER HAVE PASSED THE SAFETY TEST, WE NEVER RECOMMEND TO KEEPING THE CHILLER ON WHILE TAKING A BATH IF YOU ARE NOT SURE THAT YOUR AC OUTLET HAS BEEN PROPERLY GROUNDED.
6. KEEP THE CHILDREN AWAY FROM THE CHILLER IN USE; ALSO, PLEASE KEEP YOUR HAIR, FINGERS AND SO ON AWAY FROM THE FAN IN USE.
7. PLEASE KEEP THE ENVIRONMENT VENTILATED, THE MAX ALLOWABLE TEMPERETURE OF AMBIENT IS NOT MORE THAN 40 DEGREES. DON'T COVER OR BLOCK THE AIR INLET OR/AND OUTLET IN USE, KEEP ENOUGH FREE SPACE AROUND THE CHILLER.
8. FOR USING THE ICE BATH CHILLER WITHOUT HEATING FUNCTION, PLEASE EMPTY THE WATER IF THE AMBIENT TEMP LESS THAN 2 DEGREES CELSIUS, OTHERWISE, THE CHILLER WILL BE BLASTED BY FREEZING, ESPECIALLY IN THE WINTER, OR YOU CAN USE AN ICE BATH CHILLER WITH HEATING FUNCTION AND KEEP IT ALWAYS ON IN LOW AMBIENT TEMP.
9. MUST NOT USE THE CHILLER ANY MORE IF THE POWER CORD OR PLUG DAMAGED.
10. PLEASE PRECOOL THE BATH WATER IN ADVANCE BEFORE TAKING A BATH.
11. ONLY THE SPECIALIZED PERSONS WITH THE RIGHT QUALIFICATIONS CAN REPAIR THE CHILLER.
12. MUST NOT MODIFY THE CHILLER WITHOUT PERMISSION, OTHERWISE THE CHILLER WILL NOT WORK EVEN BE DANGER.

WE CAN'T BE RESPONSIBLE FOR ANYTHING THAT IS CAUSED BY POOR INSTALLATION AND ABNORMAL USE.

## **2. GET TO KNOW THE CHILLERS.**

Please note that the real product you got may be a little bit different from the descriptions of this manual because you have got an upgraded version.

### **2.1 Overall view:**



1. Power cord: For connecting the electric power from AC outlet. (Ac outlet must be grounded very well).
2. RCD/GFCI: Power switch with current leakage protection function. (For electrical safety, PLEASE TEST IT ONCE A WEEK AT LEAST).
3. Control panel: For indicating the working status and operating the chiller.
4. Cooling fan: For taking away the heat from the water.
5. Water strainer: To prevent the debris going into the water loop and damaging the pumps, flow sensor and check valve.
6. Cartridge water filter: Water filtration
7. Water inlet: For connecting the inlet hose from the outlet of bathtub or pool.
8. Water outlet: For connecting the outlet hose to the inlet of bathtub or pool.
9. Water hoses: For recirculating water between the chiller and the bathtub or pool.
10. Quick connector: For connecting the water hose with the inlet/outlet connectors.
11. Carry handles: For carrying or moving the chiller.
12. Trolley: For moving the chiller.
13. Castors: For moving the chiller, pls lock it after turn it on.
14. Stander: For stabilizing the chiller especially when it is working.

15. Mounting bar on the bottom of chiller-Optional: For mounting the chiller on the wall by 4 sets of screws and 2 triangular wall racks just like the air conditioning mounting racks.
16. UV or Ozone sterilizer -Optional: inside the chiller, for disinfection and sterilization of water.
17. Door/Metal cover/UV door: UV sterilizer inside the chiller--Optional.
18. App: For remoting the chiller by App thru WIFI connection.
19. Water flow sensor (Rotor): For displaying and detecting water flow--Optional.
20. Check valve: For emptying the air inside the chiller and build the water flow.
21. Darin port: For draining the water, or/and avoid the air blockage to affect the water flow--Optional.
22. Condensate water port: For connect the tubing and collecting the condensate water--Optional.

## 2.2 Control panel:



1. ON/OFF button:  
Press and hold it for 2 seconds to start or stop the chiller.
2. MODE button:  
Press and hold it for 5 seconds to exchange the temperature units C and F.
3. SETTING button (S or F):  
Single click it for entering the target water temperature setting.  
Single click it for confirming and saving after setting.
4. W button:  
Press and hold it for 10 seconds to setup or cancel WIFI that for the APP connection.
5. UP button:  
Click it for increasing the setting values under setting mode.  
Press and hold it for 10s to turn on/off the heating function of the dual temp chillers.
6. DOWN button:  
Click it for reducing the setting values under setting mode.  
\*Press and hold the UP button and DOWN button together for 5 seconds to lock or unlock the control panel.
7. SYSTEM: (Cool/Heat)  
For indicating the current working status of chiller.
8. DEFROST (On/Off):  
For indicating the current working status of defrosting if the condenser gets frozen.
9. MODE (Default/Auto/Constant):  
For indicating the mode of whole system, only Mode Default is right for ice bath.
10. WATER FLOW RATE (L/m):  
For indicating the water flow rate, new version only.

11. WIFI (Flickering/Stable/Nothing):

For indicating the connection status of WIFI.

12. REAL WATER TEMPERATURE

For indicating the current/real temperature of water at outlet of chiller.

13. TARGET TEMPERATURE:

For indicating the setting of target temperature

14. CHILD LOCK (Lock/unlock):

For indicating the control panel is locked or not(unlocked).

15. LEAF ICON:

For indicating the working status of vacuum pump (Old version).

For indicating the working status of ozone generator (New version)

16. SNOWFLAKE ICON:

For indicating the chiller works under cooling mode.

17. FLAME ICON:

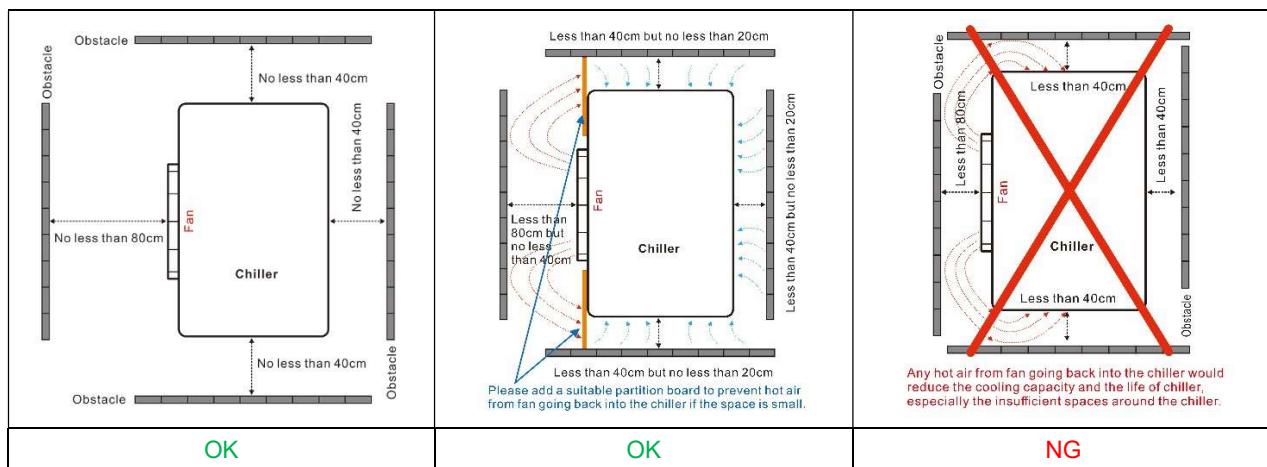
For indicating the chiller works under heating mode.

PLEASE NOTE WIFI AND APP ARE OPTIONAL ONLY.

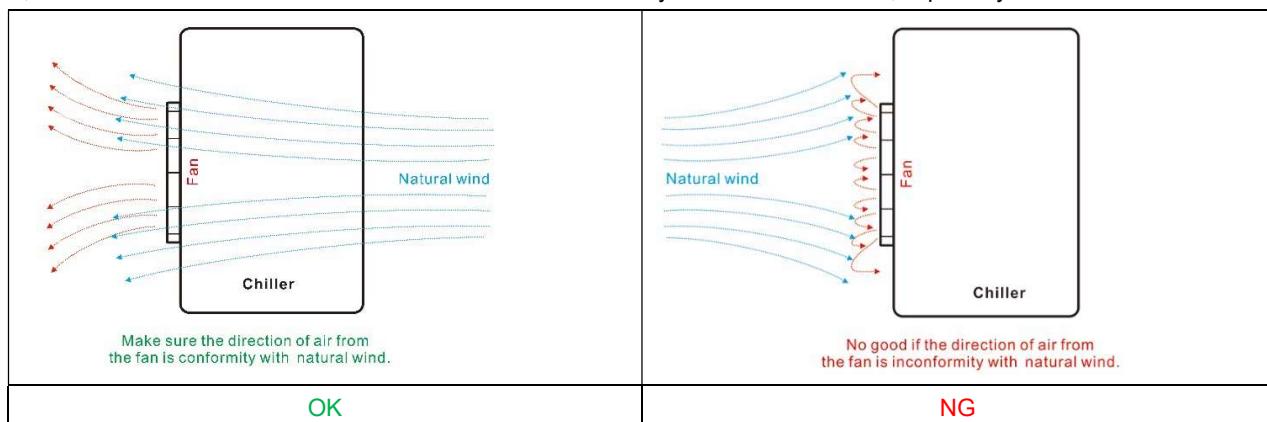
### 3. HOW TO SET UP THE CHILLERS.

#### 3.1 Importances.

A, Mark sure the chiller would be installed in a well-ventilated place, and the spaces around the chiller are enough, keep minimum 80cm space in front of fan and minimum 40cm spaces for other sides. Please add a suitable partition board to prevent the hot air from the fan going back to the air inlet holes of the chiller, and please don't block or cover any air inlet or/and outlet vents of chiller.



B, Mark sure the direction of air from the fan must be conformity with the natural wind, especially install the chiller outdoor.



C, If using the chiller outdoor, pls only use the waterproof AC outlet, make sure the chiller would not be submerged any time, it is best to have a simply canopy on the top of chiller to reduce sun exposure and rain.



D, NON-PROFESSIONALS MUST NOT MODIFY ANY PARTS OF THE CHILLER OR/AND EXTEND THE WATER HOSES WITHOUT PERMISSION, OTHERWISE THE CHILLER WILL NOT WORK VERY WELL EVEN BE DANGER.

E, TO PROTECT YOUR ICE BATH SYSTEM, PLEASE NOTE THAT USING THE CHILLER WITHOUT STRAINER MESH AND CARTRIDGE FILTER ELEMENT WOULD DAMAGE THE CHILLER!

F, TO PROTECT YOUR ICE BATH SYSTEM, PLEAS TAKE A CLEAN BATH BEFOR ENJOY AN ICE BATH, PLEASE DON'T ENTER THE BATH WATER IF YOUR SKIN WITH ANY OIL OR WAX, SUCH AS ESSENTIAL OIL, MASSAGE OIL, LOTION AND SO ON, OTHERWISE, THE VERY COOL SURFACE INSIDE THE HEAT EXCHANGE WILL BE BLOCKED BY THAT, THEN IT WILL REDUCE THE WATER FLOW LATER SOON.

G, To save you money on your electricity bill and extend the life of your chiller, it is better to set the target temp in 5°C-10°C because cooling down to 3°C would cost a lot of energy and time.

### 3.2. How to install the UV sterilizer (UV sterilizer is optional).

A, please install UV device before feeding the water into the tub if the chiller without an UV sterilizer, or pls skip this point if the chiller with a built-in UV.

Please know that the item number of UV bulb is Philips TUV 6W G6-T5, the working life would be about 8000 hours, so it needs to be replaced after using for 8000 hours, you can refer to the following instruction to install or replace it step by step.



Step 1, Open the UV door of chiller by unscrewing.

Step 2, Take out and unpack the parts of UV device.

Step 3, Put the quartz tube into the O-right, next insert the quartz tube into the metal chamber, then tighten the end nut.

Step 4, Wire the plug of UV lamp, insert the UV lamp into the quartz tube.

Step 5, Put on the plastic cap on the end nut.

Step 6, Reinstall the UV door.

#### For other models:

Just open the UV door, then install it as the same method above.

You can reverse the steps to open the UV device for replacing the quartz tube or/and UV bulb.

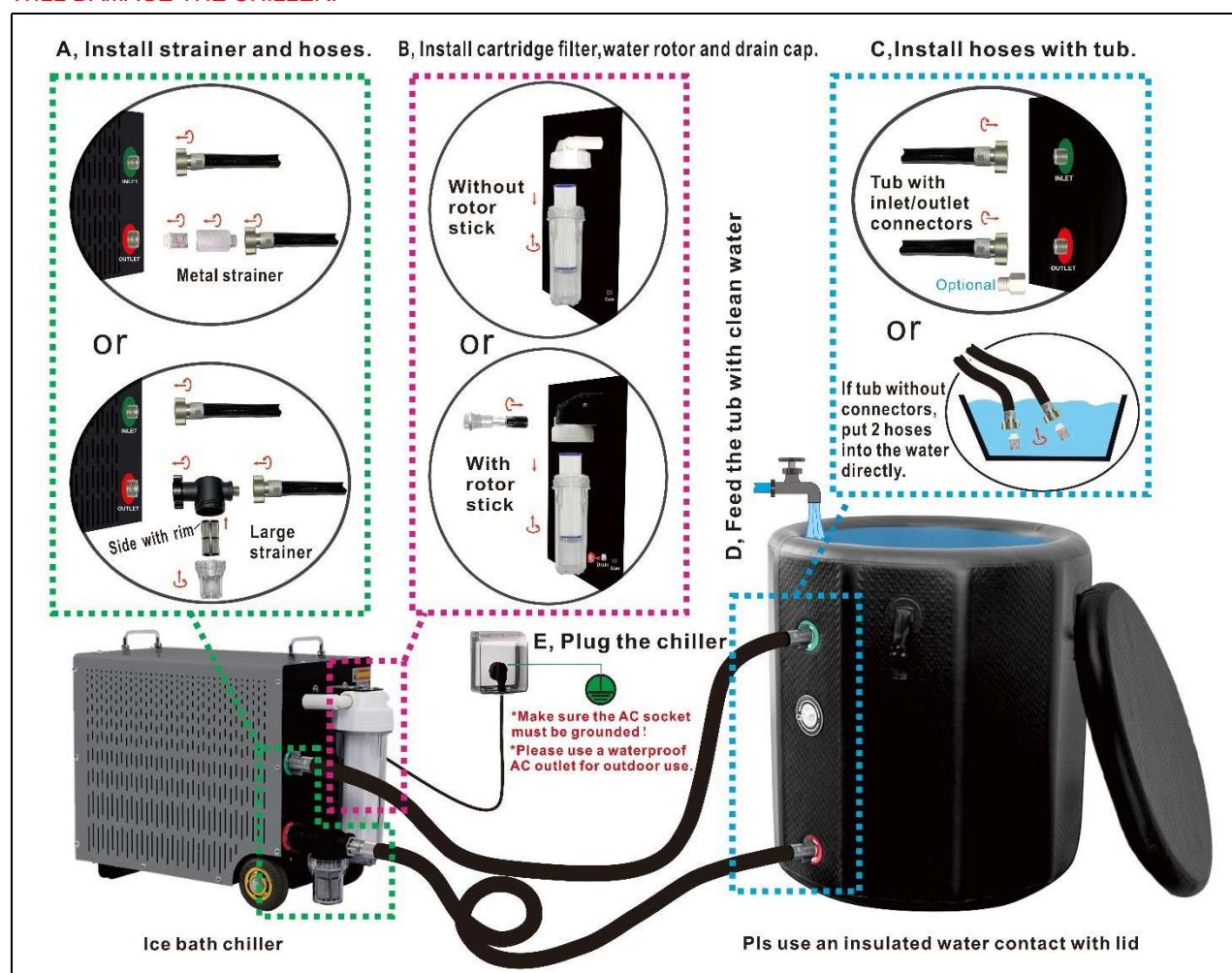
B, If the chiller with an ozone generator, nothing you need to do with the ozone, it is automatic, ozone generator is also optional.

### 3.3 How to install the chiller with tub or other water container.

Please refer to the following figures, and then connect the ice bath chiller with the bathtub or other water container.

Please note that you don't need any spanners to tight the strainer and cartridge filter and hose connectors, the spanner is for unscrewing the cartridge filter.

**PLEASE NOTE THAT USING THE CHILLER WITHOUT STRAINER MESH AND CARTRIDGE FILTER ELEMENT WILL DAMAGE THE CHILLER.**



#### A, Install the strainer and water hoses.

Make sure there is an o ring inside the strainer basket, and make sure the side with **rim** of strainer mesh must be on top, then install the strainer basket with the top tightly. Next make sure there is a gasket in each piece of connection,

connect the strainer with the inlet of chiller, then connect the inlet hose with the strainer. Make sure there is a gasket in each piece of outlet hose, next connect the outlet hose with the outlet of chiller.

B, Install the cartridge filter or/and water rotor or/and drain cap.

Please peel off the film that wraps on the filter element firstly, put the filter element into the middle of the cartridge, make sure there is an o ring inside the top of filter, install the cartridge with filter element into the top of filter tightly. Next make sure there is an o ring around the water rotor stick, insert it into the hole on the top of filter and tighten it appropriately if the chiller with an external rotor stick. Then make sure there is a gasket inside the drain cap and tighten it with the drain cap appropriately if the chiller with a drain outlet.

C, Install the hoses with tub, or other water containers.

Make sure there is an o ring inside each hand piece, connect the outlet hose with the inlet of tub then connect the inlet hose with the outlet of tub appropriately if the tub with DN15 or DN20 connectors.

Or if the tub without appropriate connectors, please install the small metal mesh with the inlet and outlet hoses, then put them into the tub directly, to make it more efficient, please don't keep 2 hoses inside the tub too close, separate them as far as possible.

D, Feed the tub with clean water appropriately.

E, Make sure the AC outlet **MUST** be grounded very well, then plug the chiller.

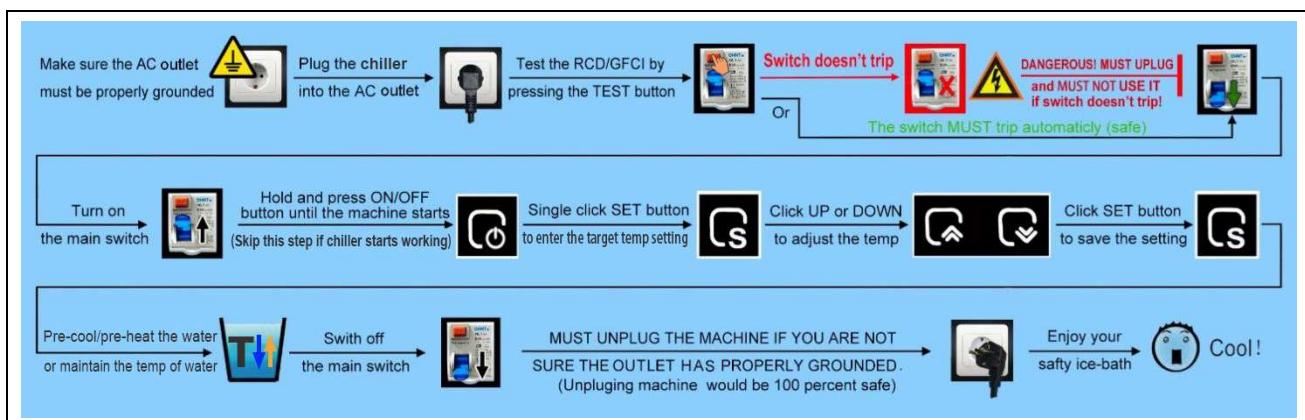
Congratulations! From now on, you can operate the chiller and pre-cool the chiller to enjoying the ice bath!

#### **4. HOW TO OPERATE THE CHILLER.**

Please note that the version number or error code may appear on display after turning on the chiller, especially for the first use, the vacuum time depends on how much air inside the water loop, that would be no problem if the system can start working after that.

##### **4.1. Operate the chiller by the control panel.**

A, Please according to the following steps to set the target water temperature and pre-cool/pre-heat the water, for the standard chiller, the setting range of target temperature would be in 3-40 degrees Celsius or 37-104 Fahrenheit degree.



B, How to maintain the water temp.

If you leave the chiller on all the time, the chiller can automatically maintain the water temperature according to the target temperature you set, please note that the fan and compressor would turn off when the real water temp hits the target temperature.

### C, IMPORTANCE!

- a, ALTHOUGH THIS CHILLER HAVE PASSED BY THE SAFETY TEST, WE NEVER RECOMMEND TO KEEPING THE CHILLER ON WHILE TAKING A BATH IF YOU ARE NOT SURE THE AC OUTLET HAS BEEN PROPERLY GROUNDED.
- b, PLEASE DON'T FORGET TO TEST THE RESIDUAL CURRENT CIRCUIT BREAKER (RCD/GFCI) BEFORE TAKING A BATH, MUST NOT USE THE CHILLER ANY MORE IF IT HAS ANY PROBLEMS.
- c. To save your energy costs and extend the life of the product, we strongly recommend that the target temperature could be set at no less than 7 degrees Celsius.

#### 4.2. UV and ozone setting.

, the users don't need to adjust the UV and ozone setting if the chiller works fine.

#### 4.3. Operate the chiller by smart phone APP.

##### A, Importance!

\*Pls note that the connection method of APP would be a little bit different because of the different versions.

\*Only WIFI-2.4G works, WIFI-5G will not work, and make sure your smartphone and chiller are covered in a same and good connection of WIFI-2.4G.

\*Please turn on the Bluetooth of your smartphone.

\*Flickering WIFI icon on chiller screen indicates being ready to connect with App, stable icon indicates App connected, no icon indicates disconnection or the App doesn't be set up, you can press and hold button W again to delete the WIFI connection and reconnect the APP.

##### B, APP SETUP (Take TUYA SMART as an example.)

###### Step 1: APP INSTALLATION.

Using your smartphone to scan the QR code on the right side and download the APP named TUYA SMART, you may open it in browser to download it if it is required.

Or search the APP called TUYA SMART on the APP store or google play store to download the APP, or please use APP called SMART LIFE if no TUYA SMART there.



###### Step 2: APP SETUP.

Please make sure your smartphone have connected to the WIFI-2.4G and its Bluetooth has been on, also please make sure your smartphone and ice bath chiller are in the same area that covered by the same WIFI-2.4 only before APP setting, pls noted that this ice bath chiller doesn't work under WIFI-5G.

And then setup the WIFI connection step by step as below: 1. Switch on BT of smart phone --- 2. Switch on WLAN of smart phone and connect it to 2.4G WIFI only (no 5G) --- 3. Press and hold bottom W on control panel of chiller until getting a beep (for about 10s) --- 4. Wi-Fi icon appears and flicking on screen--- 5. Open the TUYA APP on your phone--- 6. Popup of device then click button Add---7. Click button + --- 8. Click Manual input --- 9. WIFI setting (Enter WIFI ID & PW-click Next button – Click Updated password if needed, 2.4G only,) (Step 8-9 can be skipped if it can automatically fill in the WIFI account and password) ---10. Just waiting to complete WIFI connection--- 11. Click button Done --- 12. Control panel appears.

After setting it successfully, ice bath chiller can be remoted by smart phone anywhere and anytime.

Take the following setting photos under IOS as an sample for your reference:

1. Switch on BT	2. Switch on & connect to 2.4G WIFI	3. Press and hold bottom W until a beep	4. Wi-Fi icon flicking
5. Open the TUYA APP	6. Popup of device, click button Add	7. Click button +	8. Click Manual input
9. Enter WIFI ID & PW (2.4G only)	10. Just waiting to complete	11. Click button Done	12. Control panel appears

#### C. The common operating instructions of APP:

1. Temperature control dial:

For setting/adjusting the target water temp.

2, Screensaver.

OFF, screen will stay on all the time.

ON, screen will be auto off after 3 minutes without operation, for extend the working life of screen, so STRONGLY recommend to turn it on.

3, Flow rate.

For indicating the water flow rate.

4, Auto Start.

Pause/Off, the chiller can be turn on by switching on the main switch and then pressing and holding ON/OFF button.

Play/On, the chiller can be turn on by switching on the main switch, no need to press and hold the ON/OFF button.

5, Child Lock.

Locked, for locking all control panel buttons of chiller to prevent danger to children.

Unlock, the control panel buttons of chiller are operatable.

6, Clicks.

Mute, operating the control panel buttons of chiller without a beep.

Unmute, operating the control panel buttons of chiller with a beep.

7, F/C.

For exchange the unit of temperature.

8, Timing control.

For timing the schedule to turn on or turn off the chiller.

Tips, to avoid the bad connection, it is better to schedule several timers for the same action, for example, you want to turn the chiller off by timing at around 9:00AM, it is better to setup several timers to turn it off, such as timing at 9:00AM, 9:10AM and 9:20AM to turn off the chiller instead of only one timer at 9:00AM.

9, MAIN SWITCH.

For turning on/off the chiller by APP.

10, SETTING.

For setting more items, such as Defrost delay time, Ozone time and so on

11, Defrost Delay time.

The default is 15 minutes.

For adjusting the defrost delay time if the condenser that behind the fan becomes frozen, especially the chiller works in high humidity. To make the system more efficient in working condition of high humidity, please reduce the defrost delay time if the condenser is too much frozen, or increase the defrost delay time if the condenser is not frozen.

12, Ozone time.

For adjusting the ozone working time.

If the chiller cuts off during the ozone works, pls adjust it to 0, and less ozone time would be good for your system because of the ozone may corrode the material of the ice bath day by day.

13, Clear cache.

For renew the APP if the interface or controls toolbar of APP become inoperable.

Click button "Me"—Click "Setting icon"—Click "Clear Cache"—Close the APP then open it again.

#### 14. Engineering setting.

Only the professional persons can use this interface, if the users accidentally enter this setting, please don't adjust any settings without permission, otherwise the chiller function would be in a mess. Or you can only adjust them to the default values that marked in the brackets of each item.

## 5. COMMON ERROR CODES INTRODUCTION.

<b>FL</b>	FL means the water flow is too low, system cannot work normal, code FL will appear after the water flow reduced/blocked by 70% or more. It caused by the water blockage, such as debris on strainer mesh and the filter element, inlet/outlet of tub and valves. Or it caused by the air leakage, vacuum pump issue, check valve issue, water pump issue, water flow rotor issue (flowmeter).
<b>CLn</b>	CLn means clean, water flow became smaller than usual but system still can work, it reminds the users to clean the water loop in time. It caused by the water blockage, usually the water pump is producing the struggle sound, please note that only the new version would show code CLn after water flow reduced/blocked by 30%, and then FL will appear after water flow reduced/blocked by 70%. Please wash the strainer mesh and replace the cartridge filter element first, then check if the water flow blocked by the inlet/outlet connections or/and valves.
<b>Fo</b>	Fo means the water flow sensor got stuck or short-circuited, pls replace it if it cannot recover automatically.
<b>CH1</b>	CH1 means the water temperature sensor T1 was failed, fix or replace it.
<b>CH2</b>	CH2 means the function of temperature sensor was failed, fix or replace the sensor.
<b>CH3</b>	CH3 means the ambient temperature sensor was failed, fix or replace the sensor.
<b>ICE</b>	ICE means the water temperature is less than 0 degree, open the drain cap, inlet and outlet hoses to empty the iced water from the chiller, don't use the chiller if it got frozen.
<b>Beep</b>	Beep is always on, UV lamp failure, replace a new UV bulb
<b>Remarks:</b>	
1, The version number always appears on display once turning on the chiller, it is not an error code, it is for indicating its version number only, such as 01.0, 02.0, A4.1, A5.0 and so on.	
2, Other uncommon error code, please ask help from the seller or manufacturer.	

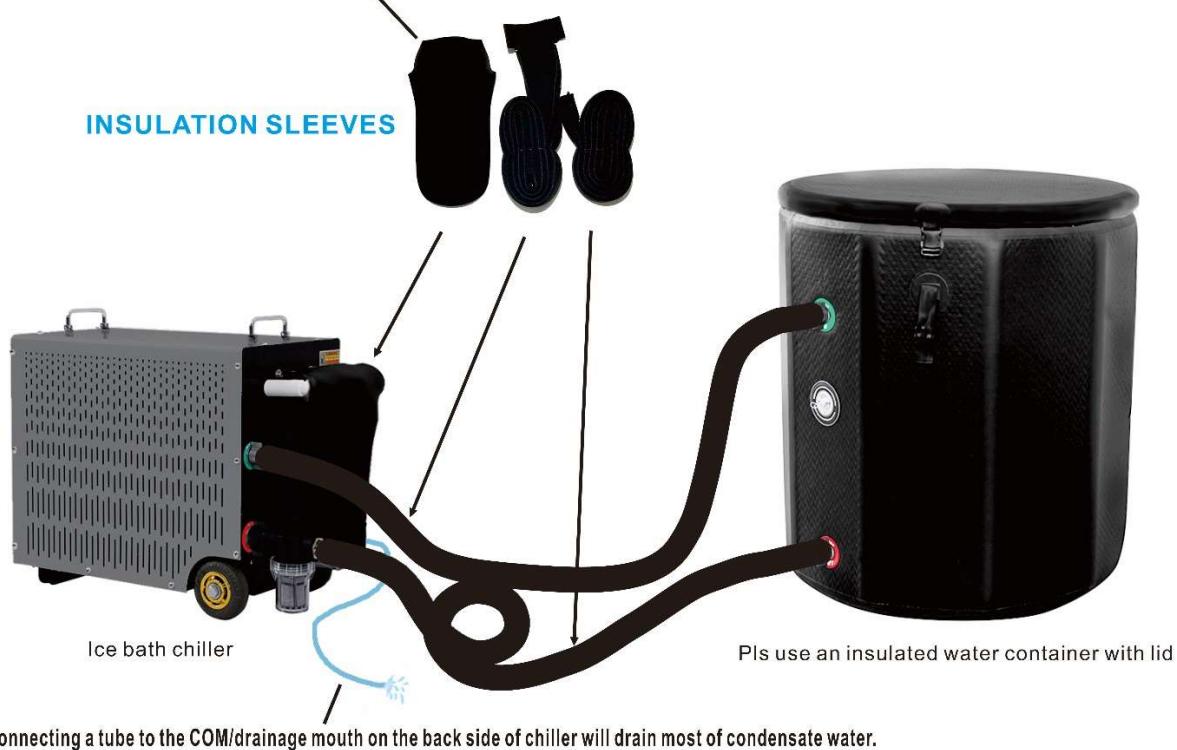
## 6.TIPS.

The following tips will make the chiller more efficient and longer working life.

- 6.1 Please place the chiller in a well-ventilated area and keep enough spaces around the chiller, and ambient temperature shall be lower 35°C.
- 6.2 Please don't block the water inlet and/or outlet and don't fold and press the hose that would damage the chiller.
- 6.3 Don't let the cooling fan to face and blow your bathtub or pool when it is working.
- 6.4 You should pre-cool the bath water before enjoying your ice-bath, the pre-cooling time depends on the volume of waters, thermal insulation of your facility and ambient temperature.
- 6.5 If the ambient temp in 2°C to -15°C, only the dual-temperature chillers can be used, the single cold chiller only cannot be used in ambient temp not low than 2°C.
- 6.6 To reduce the condensate water, make cooling or heating more effective, prolong the life of chiller, and save your electricity bill.
  - A, it is better to set the target temp in 5°C -10°C because cooling down 3°C -4°C would cost a lot of energy.
  - B, only use the insulated tubs (or other water containers) that must be wrapped in the insulation material and closed with an insulated lid or cover.
  - C, it is best to order a set of insulation sleeve to wrap the filter and hoses.



To reduce the condensate water, make cooling or heating more effective, prolong the life of chiller, and save your electricity bill, it is best to order a set of insulation sleeve to wrap the filter and hoses, and use an insulated water containers with lid only.



Connecting a tube to the COM/drainage mouth on the back side of chiller will drain most of condensate water.

- 6.7 Please use the original hoses only or as short as possible, don't extend the water hoses that may cause some unexpected water flow issue, pls ask for help from the supplier if you needed longer hoses.
- 6.8 If you want to heat up the water, please use the dual-temp chiller instead of the single-cooled chiller, the single cool chillers cannot heat up the water.
- 6.9 The single-cooled chiller cannot be used if the ambient temp will be lower than 2°C, please fully drain the water inside the chiller in advance before a long-time storage, otherwise the chiller will be blasted by frozen, especially in winter. If you really want to enjoy an ice bath in the winter, you can use a dual-temp (cold + hot) chiller and leave it on all the time to keep the water from freezing.
- 6.10 If you like to add any valves or any connector adaptors between the chiller and water container, pls make sure the inner diameter of hole of these parts are big enough, inner diameter of hole is not less than 10mm, make sure the water flow cannot be reduced by more than 1L/m, if no, it would affect the normal work of the chiller.

## **7. MAINTENANCE.**

Since the water would be polluted after taking ice bath, the regular maintenance is very necessary!

\* **USING THE CHILLER WITHOUT STRAINER MESH AND CARTRIDGE FILTER ELEMENT WILL DAMAGE THE CHILLER.**

**7.1 Please wash and clean the strainer mesh once the water flow reduced by 30% or cold CLn appears.**



or



**7.2 Please change the cartridge filter element regularly, to protect the chiller, please only buy the right cartridge filter element from the chiller supplier or the local seller, SKU NO.: MI-002.**



7.3 Don't spray the chiller with water directly for cleaning, please use a clean, soft cloth to clean the surface of chiller.

7.4 If placing the chiller outdoor, it is better to have a simply canopy on the top of chiller to reduce the harmful effect from the sun exposure and rain.

7.5 Water quality should be clean and no fouling, and take control of the chloride ion content cannot be too high. You'd better be careful when using bad cooling water. Pollutants such as sulfuric acid and sulfur oxides will increase chlorine corrosion. Usually, PH value should between 7 to 9, higher PH value may lead to scaling, even corrosion.

**7.6 TO PROTECT YOUR ICE BATH SYSTEM, PLEASE TAKE A CLEAN BATH BEFOR ENJOY AN ICE BATH, PLEASE DON'T ENTER THE BATH WATER IF YOUR SKIN WITH ANY OIL OR WAX, SUCH AS ESSENTIAL OIL, MASSAGE OIL, LOTION AND SO ON, OTHERWISE, THE VERY COOL SURFACE INSIDE THE HEAT EXCHANGE WILL BE BLOCKED BY THAT, THEN IT WILL REDUCE THE WATER FLOW LATER SOON.**

## **8. TROUBLESHOOTING.**

If the chiller can't working , pls refer to the following troubleshooting to solve it firstly.

No.	Defect description and solution
8.1	<p><b>The chiller can't be switched on.</b></p> <p>*Check the condition of AC outlet, plug the chiller with another AC outlet to test it.</p> <p>*Reset the RCD(GFCI) on the chiller then turn it on again.</p> <p>*Press and hold the button ON/OFF for 3s, not just click in a second.</p>
8.2	<p><b>The chiller cannot build a normal water flow to start the cooling or heating. Error code would be FL.</b></p> <p><b><u>USING THE CHILLER WITHOUT STRAINER MESH AND CARTRIDGE FILTER ELEMENT WILL DAMAGE THE CHILLER.</u></b></p> <p>*Usually, it caused by improper proper maintenance, the users do not wash and clean the strainer mesh and change the filter element regularly.</p> <p>-- If the water flow reduced by 30%, please wash and clean the strainer mesh first, then need to change the cartridge filter element if the water flow do not improve obviously.</p>



\*Check valve got stuck by debris, you can hear that the vacuum pump keeps working but no any water flow and no air bubble go into the tub water, especially after washing the strainer mesh, changing the filter element, reconnecting the water hoses, changing the water.

-- For version 1.1 to V.#4.2, pls use a pen to poke the middle point inside the outlet of chiller by a little big force, or wash the check valve inside the cartridge filter.

-- For version 5.0 to higher, pls open the cartridge filter to wash the check valve.

--The easy solution is turning on the chiller firstly, then feed the tape water into the outlet of tub fast to start the chiller.

\*Air leakage at somewhere, you can see there a lot of air bubbles keeps going to the tub water but never stop.

-- Please check if missing any gasket and any O ring for each connection.

-- Please tighten each connector appropriately.

\*Water blockage, usually you can hear the water pump is making the struggle working sound if the water flow reduces by 30%, and the chiller will stop working if the water flow reduces by 70%, pls check where blocked the water flow, such as valves, strainer mesh, cartridge filter.

\*Water flow becomes always unstable, or intermittent (cut off and on), or the fan always works intermittently.

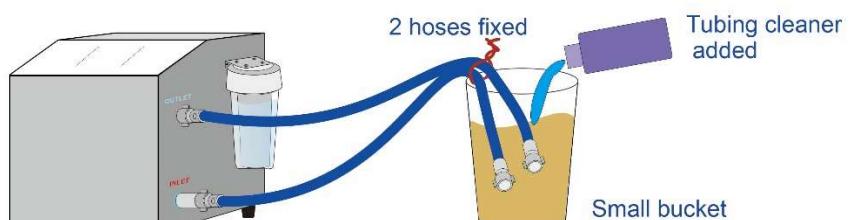
-- For version 1.1 to 4.2, needed to use the suitable chemical cleaning preparation to circulate and clean the water scale, oil, dirt, hair or microorganism at the water flow rotor, or open the chiller housing and clean the debris at the built-in water rotor inside the water pump or the individual water flow rotor, pls know that the chemical must not hurt the plastic and copper, aluminum, stainless steel before doing this, it is better to ask for help from the water treatment professionals.

-- For version 5.0 to higher, pls just take out the water flow sensor (rotor stick) at cartridge filter and clean debris at the water flow rotor.

\*If all above done but the water flow is still smaller, that would be blocked by the debris or water scale or microorganism inside the chiller, it need to be cleaned by the tubing cleaner.

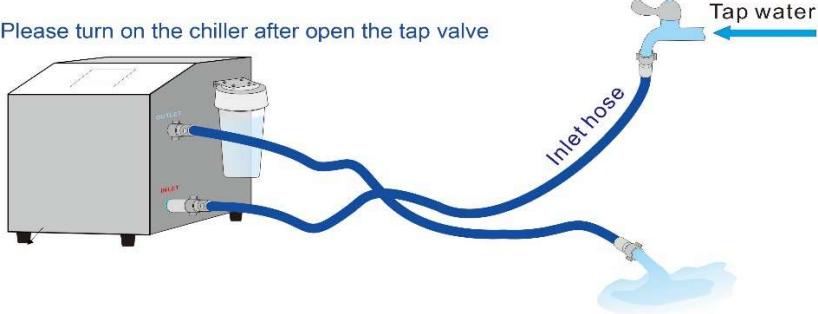
Since the tubing cleaner may hurt your body and damage the chiller if using it improperly, it is best to ask for help from the professional personnel to clean the water loop of chiller. To avoid the tubing cleaner to hurt your body, it is best to wear plastic gloves and protective glasses even and mask. To avoid the tubing to damage the plastic, aluminum, copper and stainless, before doing this, please read the manual of tube cleaner carefully and getting the proper time and proper ratio of water to cleaner first. normally the flows would be done:

-- Use pipe cleaner to circulate and clean the chiller for minutes.



Please turn on the chiller after adding tubing cleaner and fixing 2 hoses well.

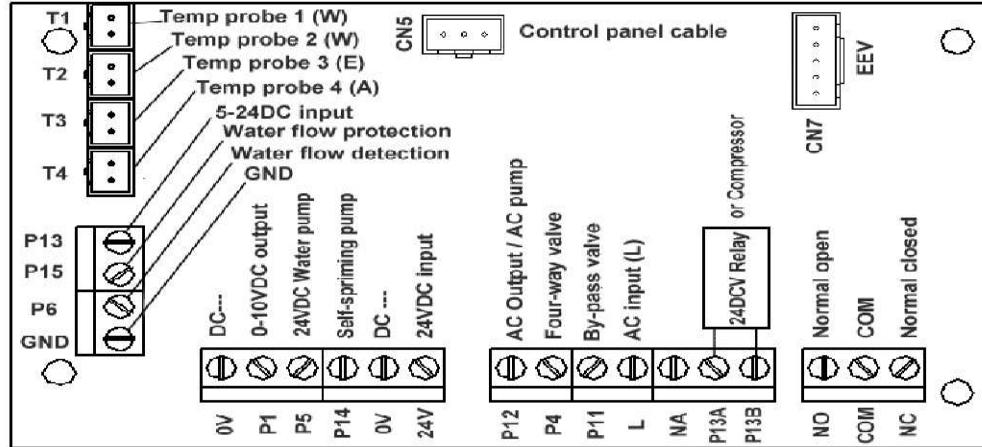
--Then connect the tap water with the inlet of chiller to flush and clean the pipe cleaner for 3-5 minutes.

	<p>Please turn on the chiller after open the tap valve</p> 
8.3	<p><b>The chiller is making the <u>metallic sound!!!!</u></b></p> <p>Please stop using the chiller immediately.</p> <p>*The chiller was dropped during transportation, pls open the metal housing and correct the compressor position to be vertical slowly and carefully, don't need to correct the copper pipes.</p>
8.4	<p><b>The water pump is making the struggle sound, Error code would be CLn or nothing.</b></p> <p><b><u>USING THE CHILLER WITHOUT STRAINER MESH AND CARTRIDGE FILTER ELEMENT WILL DAMAGE THE CHILLER.</u></b></p> <p>you can see the water flow rater becomes smaller than usual.</p> <p>* Water blockage, pls clean the strainer mesh or/and change the cartridge filter element (like a humming sound).</p>  <p>* Water blockage, check if any water valves and outlet/inlet of tub was blocked or reduce too much water flow (like a humming sound).</p> <p>* Air leakage Check if any air leakage at somewhere (like a suction sound).</p>
8.6	<p><b>Water flow becomes smaller than usual.</b></p> <p>*Wash and clean the strainer mesh firstly, also perhaps need to change the cartridge filter element.</p>  <p>*Water blocked by the outlet or inlet connection(s) of the tub; you can test it by putting the hoses into the tub water directly.</p> <p>*Water blocked by the valve(s) because the internal diameter of valve too small, you can test without any valves.</p> <p>*Check the real water flow into the tub, it is large enough and stable, that would be no problem.</p> <p>*Use the suitable chemical cleaning preparation to circulate and clean the water scale, oil, dirt, hair or microorganism inside the whole water loop, especially inside the heat exchanger and water pump, pls know that the chemical must not hurt the plastic and copper, aluminum, stainless steel before doing this, it is better to ask for help from the water treatment professionals.</p>
8.7	<p><b>Water pump is working but no water rate on display.</b></p> <p>*For version A4.0 or higher version, <u>Press and Hold</u> the button Mode(No.2) and button UP(last 2) together until having a beep (for about 5-6s) to reset the water flowmeter.</p>
8.8	<p><b>No heating function.</b></p> <p>*Pls check it is a dual-temp chiller or single cool chiller? only the dual-temp chillers can heat up the water.</p> <p>* If it is a dual-temp chiller but cannot heat up the water, pls turn on the heating function by APP or pressing and holding button UP until the flame icon appears on display (would be about for 10s).</p>

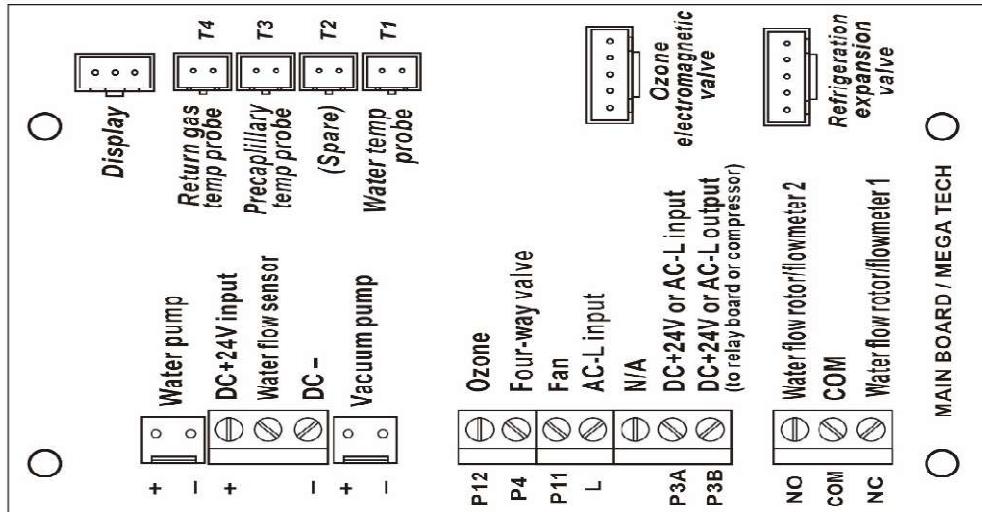
8.9	<b>Too much condensate water.</b>
	<ul style="list-style-type: none"> <li>*The surface is not insulated so that the very cold surfaces will condense water from the air, especially in humid conditions, please insulate the surface to prevent cold loss and condensate water, such as hoses, tub, filter.</li> <li>*Please connect a small tube with the condensate outlet for collecting most of the condensate water from the condenser behind the fan.</li> </ul>
8.10	<b>Cooling efficiency becomes slower than usual, or even cannot reach the lowest temp.</b>
	<ul style="list-style-type: none"> <li>*Ambient temp is too high, such as more than 35°C, pls open the door and window or turn on the exhaust fan to air the room.</li> <li>*Keep enough space around the chiller, don't let the hot air from fan go back to air inlet of the chiller.</li> <li>*Don't let the hot air from the fan blow towards to the tub.</li> <li>*The hot air from fan was blocked by the natural wind, please turn around the chiller to keep its direction conformity with the direction of natural wind.</li> <li>* The system is not insulated so that too much cold loss, pls insulated the hoses and tub to prevent cold loss and condensate water, and add a lid or cover to insulate the tub or pool.</li> <li>*Too much dirt or/and debris on the condenser behind the fan, please clean it by high pressure air.</li> <li>*The condenser behind the fan was frozen if the air is too humid, pls reduce the "Defrost Delay Time" by APP.</li> <li>*Too much water, pls use another cooling unit with lager cooling capacity.</li> </ul>
8.11	<b>Heating efficiency becomes slower than usual, or even cannot reach to the highest temp.</b>
	<ul style="list-style-type: none"> <li>*Ambient temp is too high, such as more than 35°C, pls open the door and window or turn on the exhaust fan to air the room.</li> <li>*Keep enough space around the chiller, don't let the hot air from fan go back to chiller.</li> <li>*Don't let the cold air from the fan blow towards to the tub.</li> <li>*The cold air from fan was blocked by the natural wind, please turn around the chiller to keep its direction conformity with the direction of natural wind.</li> <li>* The system is not insulated so that too much heat loss, pls insulated the hoses and tub to prevent heat loss and condensate water, and add a lid or cover insulate the tub or pool.</li> <li>*Too much dirt or/and debris on the condenser behind the fan, please clean it by high pressure air.</li> <li>*The condenser behind the fan was frozen if the air is too humid, pls reduce the "Defrost Delay Time" by APP.</li> <li>*Too much water, pls use another dual-temp chiller with lager heating capacity.</li> </ul>
8.12	<b>Display or button function got stuck or messy.</b>
	<ul style="list-style-type: none"> <li>*Switch off the chiller for 2 minutes, then switch it back on.</li> <li>*Press and hold DOWN button for 5 seconds to reset the system.</li> </ul>
8.13	<b>Setting temp range out of control, or the target water temp. setting range becomes smaller.</b>
	<ul style="list-style-type: none"> <li>*Double check if the working mode is under Default or not? pls exchange the working MODE to Default by APP if it is not, working Mode Auto, Const or others are not for ice bath chiller.</li> </ul>
8.14	<b>App cannot remote the chiller or the timing function does not work sometimes.</b>
	<ul style="list-style-type: none"> <li>*Clean the cache of APP (Click button "Me"—Click "Setting icon"—Click "Clear Cache"—Close the APP then open it again).</li> <li>* It caused by the bad connection, if there is a bad connection (WIFI or 4G or 5G) between the TUYA server and chiller or/and phone, the phone sends a command to the chiller but the chiller not react sometimes. To avoid the bad connection, pls refer to the following tips to remote the chiller. <ul style="list-style-type: none"> <li>-- Tips of Timing, it is better to schedule several timers for the same action, for example, you want to turn the chiller off by timer at around 9:00AM, it is better to setup several timers to turn it off, such as timing it at 9:00AM, 9:10AM and 9:20AM to turn off the chiller instead of only one timer at 9:00AM.</li> <li>-- Make sure the connection is in good condition before remoting the chiller by APP, and then double confirm the reaction at the interface of APP has been right after remoting.</li> </ul> </li> <li>* The setting temp returns immediately or responds slowly when adjusting the temperature setting dial through APP, it is no problem, it is caused by slow data exchange or connection between TUYA server and the phone</li> </ul>

	or/and chiller.
8.15	<p><b>Water temperature is not accurate.</b></p> <p>* the real water temperature in the tub would be +/-1.5 degrees Celsius of difference with the temperature show on the screen because the water temperature probe is not inside the tub, if it is out of +/-1.5 degrees Celsius a little big, you can maintain the correct water temperature by very good condition of insulation to your system.</p>
8.16	<p><b>For more *</b></p> <p>Pls ask for help from the after sales department.</p>

## 9. ELECTRICAL WIRING DIAGRAM FOR REFERENCE.



Version 1-2



Version 4-5

You can scan the following QR code to get the instruction manual online.



Thank you for reading, and please keep this instruction manual for future!