



CHILLER LITE

USER MANUAL



www.thermalpine.com

Thank you for your trust!



This manual is provided in English only.
For additional languages and step-by-step
guides, please scan the QR code or visit:
therapine.com/pages/manual-chiller-lite

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01 | Precautions

Usage Precautions

- Make sure the local power supply matches the chiller's requirements.
- Ensure the chiller is properly grounded before use.
- After the water reaches the set temperature, switch off the power before using the ice bath. Although this chiller has passed the safety tests, we still recommend using it with the power turned off.
- If the ambient temperature is below 0 °C (32 °F), unscrew the drain cap after your ice bath and empty the water from the chiller to prevent freezing and blockages. Avoid water freezing inside the chiller, as it may damage components.
- Ambient temperatures below about 0.5 °C (≈33 °F) or above 45 °C (113 °F) are outside the intended and tested operating range. Use the chiller only between 1–45 °C (34–113 °F).
- Do not invert (turn upside down) the chiller. Do not spray water directly onto the unit. (IPX5 protects against rain, water splashes and jets under test conditions, but keep controls, sockets, and ventilation areas dry.)
- After transport or tilting, let the unit stand upright for at least 2 hours before switching on.
- Do not cover the ventilation openings with towels, clothing, or any other items. Restricting airflow can permanently damage the chiller and may pose a safety risk.
- Do not place heavy objects on the chiller or sit / stand on it.
- In environments with children or elderly people, pay special attention to safety.
- Keep hair and fingers away from the fan to avoid injury.
- Do not run the pump dry. Always ensure the tub is filled properly and all valves are open before switching on. Running without water can damage the pump.
- Do not handle the plug, socket, or controls with wet hands. Keep the power outlet area dry at all times.
- Minors under 18 should use the product only under the supervision of a guardian.
- Only qualified professional service personnel may repair the chiller system.

01 | Precautions

Installation & Placement Precautions

- Do not install the chiller inside a closet, storage cabinet, or other confined space. Avoid narrow locations that restrict heat dissipation and airflow.
- Keep at least 50 cm of free space around the chiller during use to ensure proper fan ventilation.
- Install on a level, stable, dry surface. Avoid locations where water may pool.
- Ensure your chiller is within good range of your Wi-Fi network to maintain a constant connection.
- Plan for water drainage: Use either the tub's built-in bottom drain (gravity) or the chiller's circulation pump to evacuate water via the outlet. Use hose extensions (not included) where needed and route to a suitable drain.



Outdoor Installation:

- Place the tub and chiller in a shaded, covered area for optimal performance and protection from heavy rain, flooding, and snow.
- Do not expose or submerge the chiller in standing water or snow; prolonged exposure may permanently damage the unit.

Indoor Installation:

- Expect condensation on cold hoses, fittings, and the chiller's condensate outlet due to the temperature difference between water and ambient air. This is normal.
- Place the unit on a moisture-tolerant surface, ensure good airflow, and use a drip tray if needed.

02 | Chiller Lite Introduction

Chiller Specifications



Chiller Lite

Chiller Name: TH-Lite-IA03J
Voltage: 220-240V / 50Hz
Plug: UK or EU plug
Input Power: 460W
Cooling Capacity: 1130W
Refrigerant: R290A 100g
Net Weight: 19kg
Machine Size: 30*41*36cm

Chiller Overview



02 | Chiller Lite Introduction

Chiller Accessories



Hoses



Filter Cover Wrench



Filter Element



Rubber Seals



Angle Valve



3/4" to 1/2" Reducers



PTFE Tape



User Manual

Typical Cooling Performance

Model	Ambient Temperature	Water Vol.	Cooling Range	Ref. Time
Chiller Lite	22°C	200L	23°C → 15°C	2.1H
			23°C → 10°C	3.4H
			23°C → 5°C	5.8H

Important Notes

- Values measured under controlled laboratory conditions and provided for reference only.
- Actual results vary with ambient temperature, water volume, starting water temperature, airflow / clearances, hose length / insulation and flow rate. For best performance, consider shortening and insulating hoses, minimize bends/kinks, and maintain unobstructed airflow.

03 | Quick Start Guide

1. Read first

Carefully read the Usage Precautions (p.4) and Installation & Placement Precautions (p.5).

2. Place the tub and chiller

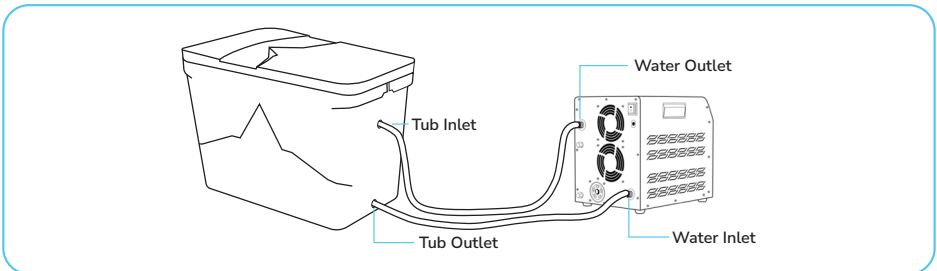
Position both on a level, stable, dry surface, with required clearances (see p.5).

3. Prepare fittings

Wrap the provided PTFE/thread tape on all male threads 2–3 turns clockwise (viewed from the thread end).

4. Connect fittings & hoses

- Remove the plugs from the tub's chiller ports.
- Install the 3/4" to 1/2" reducer into both tub ports and tighten.
- Screw the angle fittings with shut-off valves into both ports and close the valves.
- Connect 1. Hose from the tub's bottom port (outlet) to the water inlet of the chiller.
- Connect 2. Hose from the tub's top port (inlet) to the water outlet of the chiller.



5. Fill the tub

Fill with fresh, clean water (as cold as your source allows) to slightly above the top port.

6. Open angle valves

Open both angle valves at the tub to start water flow.

03 | Quick Start Guide

7. Power & start

- Power on the chiller and set your desired temperature.
- If the chiller fails to start, open the drain outlet until a steady stream of water flows out. This helps release trapped air and should restore normal operation.
- Happy plunging!

Important Energy Advice

How the chiller works:

- After reaching the set temperature, the compressor stops but the circulation pump continues to run for filtration.
- When the tub water rises by 2 °C above the setpoint, the compressor automatically restarts and cools back down to the set temperature.

Recommended Practice:

- Use the Schedule feature instead of running the chiller 24/7.
- Keep the tub's lid closed when not in use to reduce heat gain and energy use.
- Cold-weather caveat (ambient 1–5 °C): Keep the chiller running continuously to help prevent ice forming inside the chiller, which may damage components.

04 | Quick Troubleshooting









Common Failures

Error Code	Meaning	What to Do
E1	Water temperature sensor fault (sensor damaged or disconnected).	Contact support. The water temperature sensor needs to be checked or replaced.
E2	No water-flow detected / water-flow error (often caused by trapped air in the system or incorrect hose/valve setup).	Ensure the water level in the tub is at least 15 cm above the chiller's water inlet. Open the drain outlet until a steady stream of water flows out. This helps release trapped air and should restore normal operation.
L1	Low-temperature warning (water below 0 °C / 32 °F).	Please use the chiller only when the water temperature is above 0 °C and the ambient temperature is above 1 °C.
H1	High-temperature warning (water above 55 °C / 131 °F).	Please use the chiller only when the water temperature is below 55 °C and the ambient temperature is below 45 °C.

If the issue persists after these steps, contact hello@theralpine.com.

05 | Key Screen Basics





Key Introduction

1.  Power ON / OFF
2.  Temp unit switching / Wi-Fi
3.  Set temp / Program menu
4.  Turn up temperature / Up
5.  Turn down temperature / Down
6.  Screen lock & unlock / OK (Confirm)
7.  Wi-Fi
8.  Water pump
9.  Fan
10.  Compressor
11.  Screen lock & unlock
12.  Temperature unit (°C/°F)









05 | Key Screen Basics

Operation Guide

- Short press  to switch temperature unit
- Long press  for 10s to connect Wi-Fi
- Short press  OK (Confirm)
- Long press  3-5s: Screen lock/unlock

Setting the temperature:

- Press  to set temperature
- Press  to increase the temperature
- Press  to decrease the temperature
- Press  to confirm the temperature setting
- Long press  and  at the same time to restore factory settings






Program Menu

Program	Specification	Unit	Value Range	Default Value
P1	Return difference	Degrees	0.1°C - 10°C	2°C
P2	Compressor delay	Minutes	1 - 5 mins	3 mins
P3	Calibrate	Degrees	-2.0°C - +2.0°C	0.0°C

P1: Defines how much the water temperature must rise above the setpoint before the compressor turns back on.

P2: Controls how long the system waits before allowing the compressor to restart after stopping.



P3: Allows you to correct small temperature sensor deviations.

- Press and hold  for 5 seconds to access the Program menu.
- Press  or  arrow keys to choose program (P1, P2 or P3).
 1. Press  once to display the default value.
 2. Use the arrow keys to adjust the default value, press  to exit.

06 | Wi-Fi Setup

How to Connect

The Theralpine Chiller Lite app is built on the Tuya / Smart Life platform for full smart-home integration.

1. Download Tuya or Smart Life from the Apple App Store or Google Play (iOS & Android).
2. Use a 2.4 GHz Wi-Fi network for optimal performance.
3. Power on the chiller. Long press the  button and hold for 10s until the  icon blinks.
4. Open the Tuya or Smart Life App on your phone.
5. In the app, tap + or "Add Device", select your Theralpine Chiller Lite.
6. Select your Wi-Fi, enter the password, and tap Connect.
7. When pairing is successful, the device appears in the app. Tap it to open the control screen.

Phone App Basics

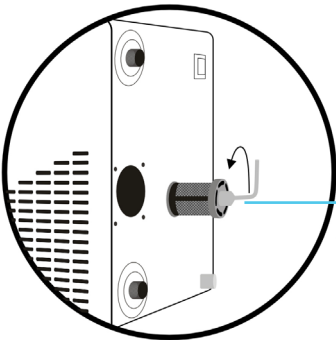


1. Real-time water temperature
2. Temperature unit switch (°C/°F)
3. Screen lock/unlock
4. Set temperature
5. Power ON/OFF
6. Schedule power-on and power-off times

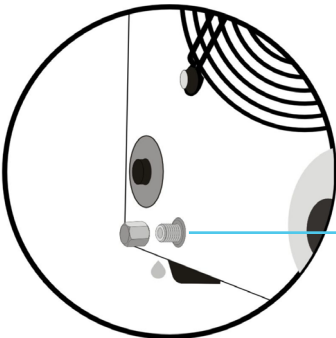
07 | Maintenance

Regular maintenance helps ensure optimal cooling performance and extends the lifespan of your Theralpine Chiller Lite.

Task	Interval	What to do
Clean built-in filter	2-4 weeks	Remove the built-in filter with the provided tool, rinse thoroughly and reinstall securely.
Clean air intake / grille	Monthly	Vacuum dust/lint from the grille/fins. Keep airflow unobstructed.
Inspect hoses & joints	Monthly	Check for kinks drips and re-wrap the threads with PTFE tape if needed.
Storage / transport	As needed	Drain water, open drain outlet, dry hoses, keep upright. Store in a dry place (5–40 °C).



Schematic for disassembling and cleaning the built-in filter.



When the chiller is not in use or being stored, please drain the water in the chiller and hoses.

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