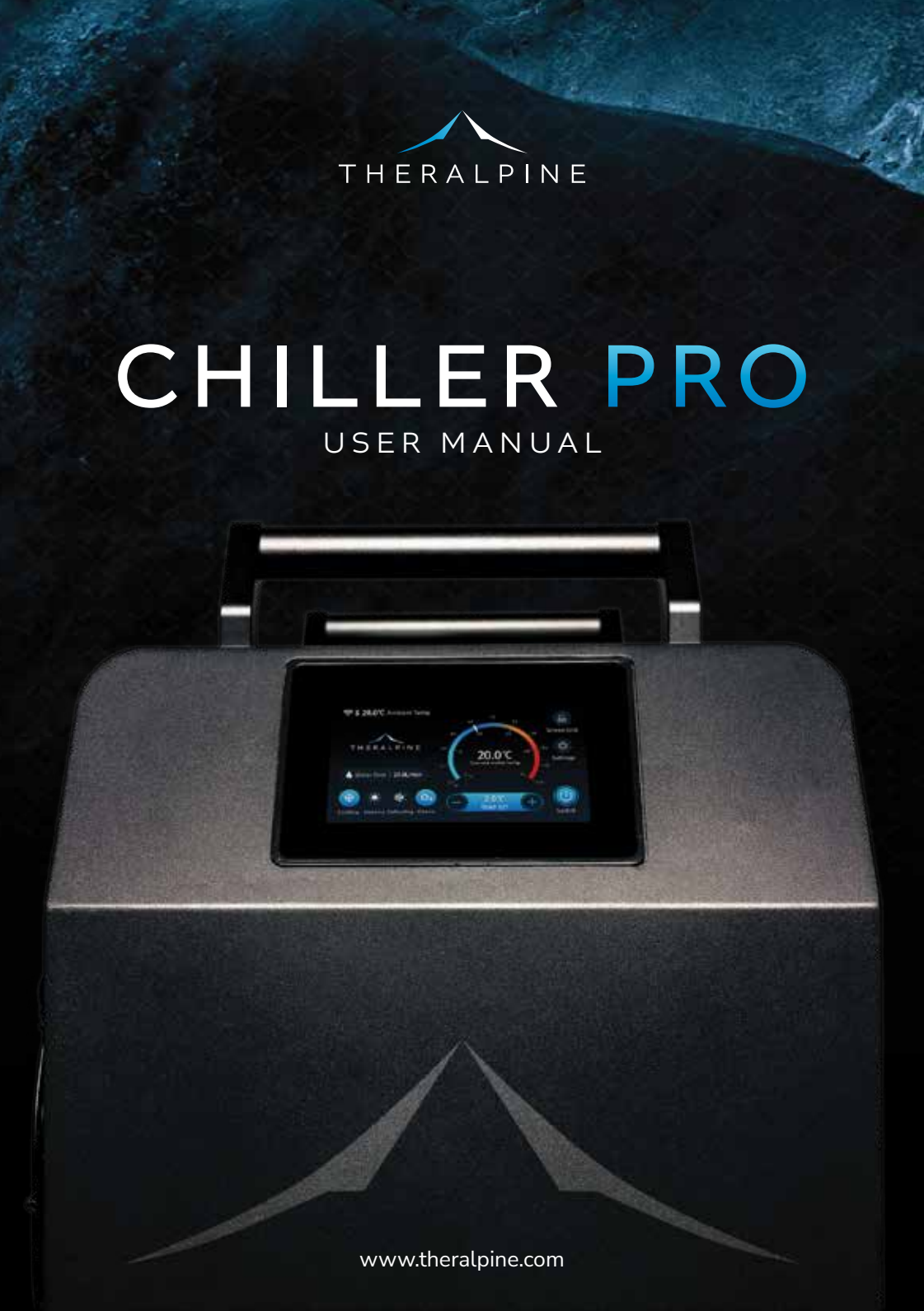
THERALPINE

CHILLER PRO

USER MANUAL



www.theralpine.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:
theralpine.com/pages/manual-chiller-pro

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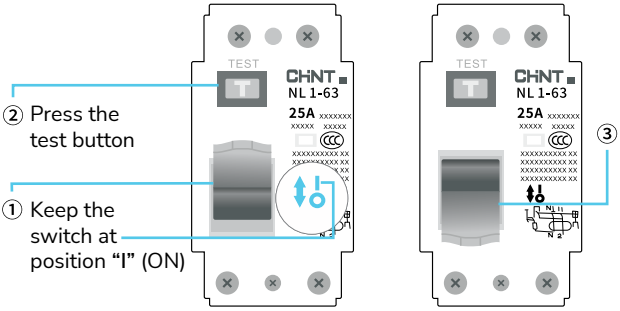
01 | Precautions

Usage Precautions

- Make sure the local power supply matches the chiller's requirements.
- Ensure the chiller is properly grounded before use.
- Ensure the Residual Current Device (RCD) switch is in the "I" (ON) position before use.
- Test the Residual Current Device (RCD) once a month (testing method shown in the figure below). If it does not work correctly, stop using the chiller immediately.



Press the test button. If the switch immediately jumps to the "O" (off) position, the test is OK; Otherwise, the test has failed. Please stop using it and carry out inspection and maintenance.

- 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.)

01 | Precautions

- 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, all valves are open, and the filter lid is sealed 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.

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.

01 | Precautions

Outdoor Installation

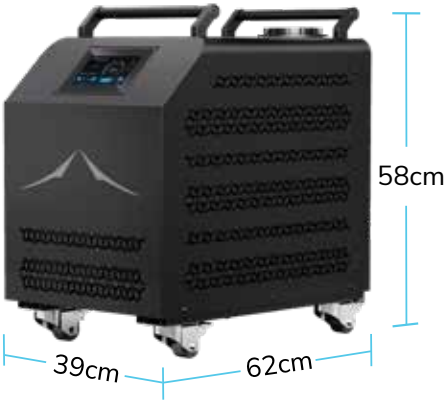
- Place the tub and chiller in a shaded, covered area for optimal performance and protection from heavy rain, flooding, and snow.
- Do not expose or submerge the chiller in standing water or snow; prolonged exposure may permanently damage the unit.

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 Pro Introduction

Chiller Specifications



Chiller Pro

Chiller Name: TH-Pro-IA10
Voltage: 220-240V/50Hz
Plug: UK or EU plug
Input Power: 1160W
Cooling Capacity: 3150W
Heating Capacity: 4150W
Refrigerant: R410A 360g
Net Weight: 42kg
Machine Size: 39*62*58cm

Chiller Overview

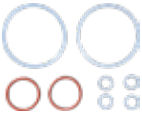
02 | Chiller Pro Introduction

Chiller Accessories

Hoses

Filter Elements

Filter Cover Wrench



Rubber Seals

3/4“ Shut-Off Valve

3/4“ to 1/2“ Reducers

PTFE Tape

User Manual

1/2“ Elbow Fittings

3/4“ Elbow Fittings

02 | Chiller Pro Introduction

Typical Cooling Performance

Model	Ambient temperature	Water Vol.	Cooling Range	Ref. Time
Chiller Pro	22°C	200L	23°C → 15°C	0.8H
			23°C → 10°C	1.4H
			23°C → 5°C	2.1H
			23°C → 0°C	3.5H
	26°C		23°C → 15°C	0.8H
			23°C → 10°C	1.5H
			23°C → 5°C	2.4H
			23°C → 0°C	3.8H
	30°C		23°C → 15°C	1H
			23°C → 10°C	1.8H
			23°C → 5°C	2.8H
			23°C → 0°C	4.5H

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. Higher ambient temperatures slow cooling and may prevent reaching temperatures below 1 °C.

03 | Quick Start Guide

1. Read first

Carefully read the Usage Precautions (p.4) and Installation & Placement Precautions (p.5-6).

2. Place the tub and chiller

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

3. Prepare fittings

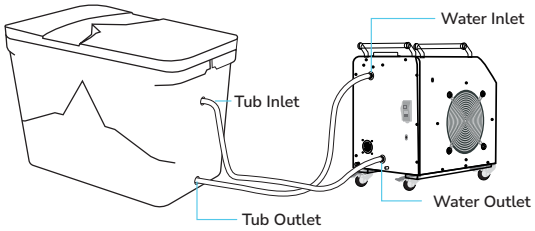
Wrap the provided PTFE tape 2–3 turns clockwise (viewed from the thread end) around the following male threads: 3/4" elbow fittings, 3/4" shut-off valve, and the 3/4" end of the reducer.

The hose fittings with swivel feature an O-ring that seals the thread. There is no need for PTFE tape on the 1/2" male threads that connect to the hose.

4. Connect fittings & hoses

- Remove the plugs from the tub's chiller ports.
- Connect the 3/4" elbow, shut-off valve, and 3/4" to 1/2" reducer, and tighten securely.
- In the top port, install the 3/4" elbow with shut-off valve and reducer, tighten, then close the valve and ensure it points downwards.
- In the bottom port, install the second 3/4" shut-off valve directly and connect the 3/4" to 1/2" reducer.
- Connect Hose 1 from the tub's bottom port (outlet) to the chiller IN (water inlet).
- Connect Hose 2 from the tub's top port (inlet) to the chiller OUT (water outlet).
- Optional: Two additional 1/2" elbow fittings and one 3/4" elbow are included. The 1/2" elbows may be attached to the chiller if helpful for your setup. The 3/4" elbow can be connected to the bottom port of the tub, but this requires lifting the tub and can only be done when it is empty. These additional fittings are not recommended, as they slightly reduce water flow, which may prevent the chiller from reaching temperatures below 1 °C.

03 | Quick Start Guide



5. Fill the tub

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

6. Open shut-off valve

Open both shut-off valves at the tub to start water flow.

7. Seal the filter lid

Ensure the filter cup/lid on top of the chiller is closed tightly. Air ingress can cause pump failure or low flow.

8. Power & start

- Set the RCD to “I” (ON).
- Power on the chiller and set your desired temperature.
- Happy plunging!

Ice Making Mode (0°C)

Long press the “–” (Minus) button when the set temperature is 1°C to activate Ice-Making Mode. Ice-Making Mode is recommended **only for experienced users.**

Disclaimer: Ice formation depends on water quality, hardness, flow rate, and the adapters used, and therefore cannot be guaranteed. However, temperatures below 1°C have been achieved in all tests conducted, provided adequate water flow is maintained. For the best results, attach the shut-off valves directly to the tub and avoid using additional elbows, as they may reduce flow.

04 | 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 1.5 °C above the setpoint, the compressor automatically restarts and cools back down to the set temperature.

Heat from filtration:

- Continuous filtration adds a small amount of heat to the water (the pump's electrical input becomes heat).
- The chiller and hoses are less insulated than the tub, so ambient heat increases water temperature; this effect grows as ambient temperature rises.
- Consequence: Water temperature rises more quickly when filtration is on (and cooling is off).

Don't filter nonstop:

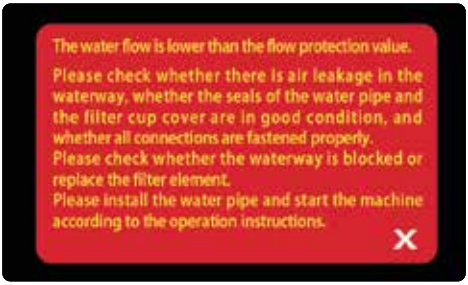
- Theralpine's insulation keeps water temperature stable for long periods.
- Running filtration continuously counteracts this benefit and increases energy use.
- Uninterrupted filtration is not required to maintain optimal water quality when proper water chemistry is maintained.

Recommended Practice:

- Use the Schedule feature instead of running filtration 24/7.
- Aim for at least 3-4 filtration cycles per day.
- Keep ozone at 5 min when following this practice.
- Set each filtration cycle between 30min to 1 hour (adjust as desired based on bather load and water clarity).
- 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 filtration running continuously to help prevent ice forming inside the chiller, which may damage components.

05 | Quick Troubleshooting

This chiller can automatically detect faults. When a fault occurs, the Home screen shows the fault type. Press to view details and follow the on-screen instructions. If the issue persists after these steps, contact **hello@theralpine.com.**



Most common issue: Pump failure / Low water flow

1. **Check water & valves** — The pump must not run dry! Make sure the tub is filled to the correct level, hoses are connected as instructed, and all shut-off valves are open.
2. **Seal the filter lid** — Ensure the filter cup/lid on top of the chiller is closed and sealed tightly. If air gets into the system, the pump may lose flow or stop.
3. **Prime the filter** — If the problem persists, open the filter cup/lid, fill it completely with water, and close it again firmly. The chiller should start normally.
4. **Still not working?** — Email **hello@theralpine.com** and we'll help as quickly as possible.

Other quick checks (helpful)

- Avoid hose kinks.
- Dirty/blocked filter — Rinse or replace the 10" pleated cartridge.
- RCD tripped / power off — Set the RCD to "I" (ON) and confirm power.

06 | Touch Screen Basics

Home Screen

1. **Power:** Press  to turn the unit ON/OFF.
2. **Settings:** Press  to open Settings.
3. **Screen lock:** Short press  to lock the screen; long press (3-5s) to unlock.
4. **Water temperature:** Displays the current water temperature (°C) in real time.
5. **Set temperature:** Press  to adjust the target temperature (°C).
   Long press  when the set temperature is 1°C to activate Ice-Making Mode (0°C).
6. **Status icons:** The relevant icon lights up when a function is active (cooling, heating, defrosting, Ozone).
7. **Flow rate:** Displays water flow in real time (L/min).
8. **Ambient temperature:** Displays the current ambient temperature (°C).

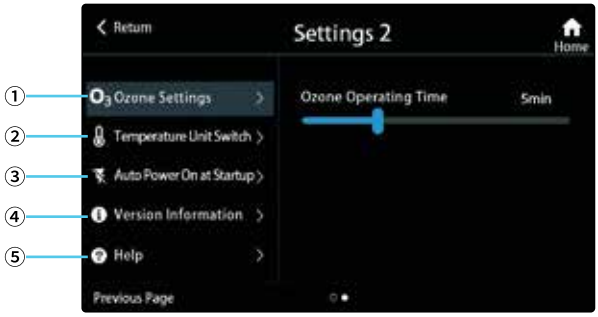
06 | Touch Screen Basics

Settings 1

1. Press “WLAN” to connect to Wi-Fi.
2. Press “Language” to select the display language.
3. Press “Key Sounds” to turn button sounds ON/OFF.
4. Press “Screen” to set brightness and screen lock/off time.
5. Press “Next Page” to access more settings.

Settings 2

1. Press “Ozone Settings” to set the ozone operating time.
2. Press “Temperature Unit Switch” to switch units (°C/°F).
3. Press “Auto Power-On” to set whether the unit automatically turns on after power is restored.
4. Press “Version Information” to view the current software/firmware version.
5. Press “Help” to view the installation guide and maintenance instructions.



Ozone Settings

- Range: 0–5 minutes per 15 minutes of chiller runtime.
- 0 = OFF (ozone function disabled).

Examples

5 min: Ozone runs for 5 minutes every 15 minutes the chiller is running.

3 min: Ozone runs for 3 minutes every 15 minutes the chiller is running.

07 | Wi-Fi Setup

How to Connect

The Theralpine Chiller Pro 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. On the Home screen, press Settings.
4. Go to WLAN and hold “Connect to Wi-Fi” for at least 3 seconds until the display shows “Connecting”.
5. Open the Tuya or Smart Life App on your phone.
6. In the app, tap + or “Add Device”, select your Theralpine Pro Chiller.
7. Select your Wi-Fi, enter the password, and tap Connect.
8. When pairing is successful, the device appears in the app. Tap it to open the control screen.

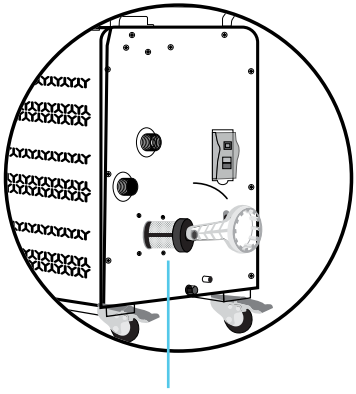
Phone App Basics

1. Real-time water temperature
2. Slide to set ozone operating time
3. Auto Power-On (set whether the unit turns on automatically after power is restored)
4. Schedule power-on and power-off times
5. Real-time water flow rate
6. Temperature range: 0–42 °C
7. Power ON/OFF
8. View additional parameters

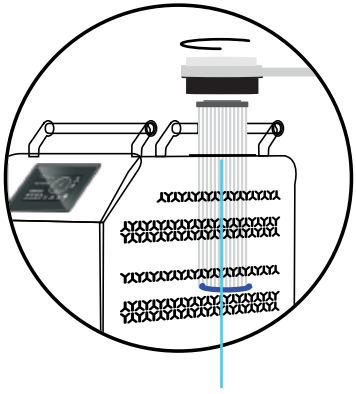
08 | Maintenance

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

Task	Interval	What to do
Replace large filter element	2-4 weeks	Remove the filter lid, replace the filter with a 10” Theralpine filter replacement and close the lid firmly.
Clean small built-in filter	2-4 weeks	Remove the built-in filter with the provided tool, rinse thoroughly and reinstall securely.
Test RCD	Monthly	Press TEST; the lever should trip to “0” (OFF). Reset to “I” (ON). If it does not trip correctly, stop using the chiller and contact support.
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 build-in small filter



Schematic for replacing the large filter element

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