

# Clearlight®

## Clearlight Plunge

INFRARED SAUNAS AND WELLNESS SOLUTIONS

USER MANUAL



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# 1. Welcome to the Clearlight® Plunge

Thank you for choosing the Clearlight® Plunge. Designed with performance, simplicity, and durability in mind, this cold water immersion system reflects our commitment to quality craftsmanship and thoughtful engineering.

This self-contained unit arrives fully assembled and is easy to use, no plumbing required. With intuitive controls, precise temperature regulation, and a compact, self-contained design, it fits seamlessly into both home and commercial wellness environments.

This manual includes important information on setup, operation, care, and safety. Please review all sections carefully before first use to ensure proper handling and optimal performance.

If you have any questions or need support, our team is here to help.

## 2. Safety Information

This manual refers to the Clearlight® Plunge as “the device” or “the appliance,” which includes the factory-installed power supply, refrigeration components, water pump, filtration system, digital control unit, and any included accessories.

### Disclaimer

The Clearlight Plunge is not a medical device and is not intended to diagnose, treat, cure, or prevent any disease or medical condition. Information provided in this manual and on [infraredsauna.com](https://www.infraredsauna.com) is for educational and informational purposes only. Please consult a qualified healthcare provider before use, especially if you have underlying health concerns or conditions.

### General Safety Guidelines

- Read this manual carefully before using the Clearlight Plunge.
- Keep the manual for future reference.
- Operate the device only as instructed.
- Maintain the unit regularly to ensure safe and effective operation.
- Proper precautions must always be taken. These safety instructions reduce, but do not eliminate, all risks.

**Clearlight is not liable for any damage or injury resulting from misuse, unauthorized modifications, or failure to follow the instructions in this manual.**

## **User Restrictions**

- Do not use the Clearlight Plunge if it has been dropped, damaged, or shows signs of wear.
- Contact customer support if any part of the unit is not functioning properly.
- Keep out of reach of children. This device is not a toy.
- Children should not use the device without adult supervision.
- Do not allow sleeping, unconscious, or physically impaired individuals to use the device unattended.
- This appliance is not intended for individuals with reduced physical, sensory, or mental capabilities without supervision from a responsible person.
- Do not use if you are unable to sense or respond to temperature changes.
- This device is not intended for use in medical facilities or hospitals.

## **Electrical Safety**

The Clearlight Plunge is an electrical device. To reduce the risk of electric shock or injury, follow these precautions:

- Do not immerse any part of the device in water or other liquids.
- Do not wash electrical components with water.
- Do not operate the unit near flammable or combustible materials or vapors.
- Do not touch plugs, cords, or switches with wet or damp hands.
- Do not use the power cord to carry, pull, or move the unit.
- If the power cord is damaged, contact the manufacturer or a qualified technician for replacement.
- Do not use an extension cord or power strip to operate this device. Always plug the plunge directly into a dedicated wall receptacle that matches the required electrical specifications.
- Always grasp the plug (not the cord) when disconnecting from the outlet.
- Do not cover cooling fans during operation.
- Always match the product's rated voltage to your power supply.

## Usage Reminders

- Always ensure the lid and external cover are securely fastened when the plunge is not in use.
- Inspect the unit regularly for signs of wear or damage.
- Do not attempt to open, modify, or repair the unit. There are no user-serviceable parts.
- Children should not perform cleaning or maintenance tasks without adult supervision.
- Keep packaging materials away from children.

## 3. Cold Water Immersion Overview

Cold water immersion, also referred to as cold therapy or cold exposure involves briefly submerging the body in cold water. This practice is commonly integrated into personal wellness, athletic recovery, and contrast therapy routines in both home and professional settings.

This system is designed to deliver a consistent, adjustable cold-water environment, allowing individuals to include cold exposure in their routines at a comfort level that works for them. Temperature settings can be easily customized to meet personal preferences.

Many people choose to incorporate cold water immersion into their wellness practices for a variety of personal reasons. While individual experiences vary, cold exposure is often included in routines intended to support:

### Commonly Reported Applications

- Post-Activity Recovery
- Often used after physical exertion as part of cooldown or recovery practices.
- Relaxation & Stress Reduction
- Frequently included in routines intended to help reset, unwind, or recharge.
- Circulation & General Well-Being
- Commonly used in practices focused on feeling refreshed and revitalized.
- Mental Focus & Sleep Preparation
- Some individuals use cold exposure as part of transitions into clearer focus or deeper rest.
- Building Personal Resilience
- Often integrated with breathwork, mindfulness, or contrast therapy to support personal discipline and mental conditioning.

Cold immersion affects everyone differently. If you are new to cold exposure, start slowly with shorter durations and lower intensity, and gradually adjust as you become more familiar with the experience.

For more information about Clearlight® products and wellness technologies, visit [infraredsauna.com](https://www.infraredsauna.com). If you have any questions about medical conditions or safety concerns, please consult your healthcare provider before use.

## 4. Product Features

The Clearlight® Plunge is engineered to deliver a premium cold experience with advanced technology, durable materials, and thoughtful design. Below are the key features that define its performance, convenience, and style.

### Advanced Cooling & Heating System

- **Versatile Temperature Range:** Adjustable from 36°F (2°C) to 104°F (40°C), the Clearlight® Plunge offers a wide range of thermal settings. Whether you prefer deep cold immersion or a warm soak, you can customize the experience to your exact comfort level and wellness goals.
- **Precision Control:** The integrated digital control panel ensures consistent and accurate temperature regulation, allowing you to fine-tune your plunge with ease.

### Integrated Cleaning System

- **Self-Cleaning Technology:** The Clearlight® Plunge features a dual-stage water purification system designed to keep water clean with minimal maintenance.

- **Ozone Generator:** Built-in ozone disinfection helps eliminate bacteria and contaminants without the need for harsh chemicals.
- **Dual Filtration System:**
  - **Pleated Sediment Filter (10" x 2.5", 20-micron):** Captures larger particles and debris to maintain water clarity.
  - **Stainless Steel Mesh Filter:** Durable and reusable, this fine mesh filter adds an extra layer of protection while being eco-friendly and cost-effective. Simply rinse and reuse as needed.

This combination helps ensure long-term water quality and reduces the frequency of water changes, making the plunge experience cleaner, safer, and more efficient.

## Effortless Setup & Flexible Placement

- **Plug-and-Plunge Ready:** The unit arrives fully assembled. Simply fill with water and plug into a dedicated wall outlet, no plumbing needed.
- **Space-Conscious Design:** Built to fit through standard doorways (29.5" wide) for seamless placement in indoor or outdoor environments.

## Premium Build & Ergonomic Design

- **Materials:** Constructed from brushed stainless steel and Canadian Cedar for long-lasting durability and refined aesthetics.
- **Comfort-Focused Shape:** The ergonomic interior supports a natural seated position, minimizing buoyancy and enhancing overall comfort.

## Included Accessories

### Insulated Lid

- **Temperature Retention:** Helps maintain consistent water temperature for optimal energy efficiency.
- **Water Protection:** Shields the plunge from debris and contaminants when not in use.
- **Lightweight Design:** Easy to open and close, with a practical handle and foldable construction for storage.
- **Durability:** Water-resistant finish makes it suitable for both indoor and outdoor environments.

## Tie-Down Fasteners (Included with Lid)

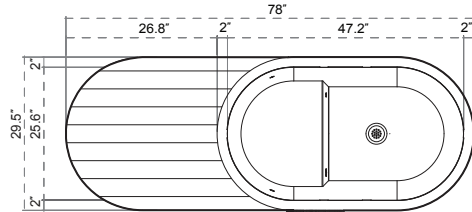
- **Built-In Security:** Fixed-length straps included with the lid help keep it securely in place, especially in outdoor or shared spaces.
- **Lockable Buckles:** Optional custom combination code can be set for added safety and peace of mind.
- **Best Practice Reminder:** Always verify that the lid and fasteners are secured before leaving the unit unattended.

## Cedar Step

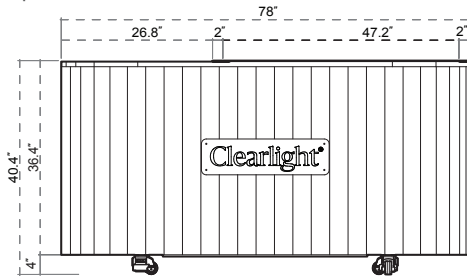
- **Essential Accessory:** Required for safe and easy entry.
- **Refined Design:** Crafted from premium Canadian Cedar, it blends function with natural beauty.
- **Storage Compartment:** Built-in compartment provides practical storage for water care tools, towels, or personal items.

## Optional Accessories (Sold Separately)

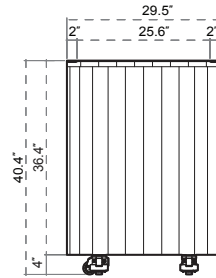
- **Outdoor Cover (Charcoal Color):** Durable, weather-resistant cover for added protection in outdoor settings
- **Water Filter 3-Pack:** Includes three 20-micron pleated sediment filters for continued water clarity



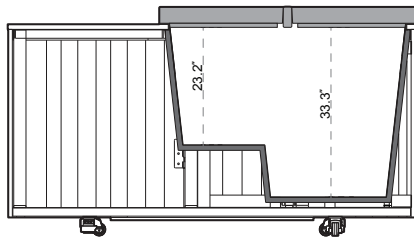
Top View



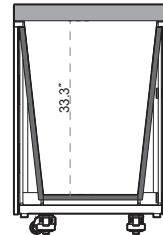
Front View



Side View



Longitudinal Section



Cross Section

## 5. Product Specifications

### Clearlight Plunge

Model	Clearlight Plunge
Power Supply	AC110-120V, 60Hz, 10.5A
Max. Power Input	1150W
Compressor Power	900W
Compressor Cooling Capacity	3000W
Circulation Pump Power	80W
User Safety Protection	Leakage Protection Switch Cable
Refrigerant	R32 (550g)
Temperature Range	36°F - 104°F
Connectivity	SmartLife App (IOS/ Android)
Acoustic Levels	<60dB
Water Proof Class	IPX4
Net Weight	474lbs
Dimensions (inch)	78"L x 29.5"W x 40.4"H
Tub Dimensions (inch)	47.2"L x 25.6"W x 33.3"H
Materials	Tub: SUS 304, others: Galvanized Steel, Cedar



# 6. Setup & Operation

## 1. Preparing for Your Plunge

The Clearlight® Plunge is a general wellness device intended to support relaxation, recovery, and overall vitality. It is not designed to diagnose or treat any medical condition. Please follow all usage guidelines outlined in this manual for safe and effective operation.

### Important Things to Note:

- **Supervision:** For your first few sessions, we recommend having someone nearby in case you need assistance.
- **Session Duration & Frequency:** Begin with short sessions of 1–2 minutes. Gradually increase to 3–5 minutes once per day as your body adjusts. If you plan to exceed this frequency or duration, consult a physician beforehand.
- **Temperature Settings:** When first filled, the water will be at ambient temperature. Once you power on the unit and set your desired temperature, the Clearlight Plunge will maintain that setting within a safe range of 36°F–104°F (2°C–40°C).
- **Sensations During Use:** If you start feeling faint, dizzy, or experience any unusual sensations, exit the plunge immediately but calmly. It is important to listen to your body and not push beyond comfortable limits.

## 2. Setting Up the Clearlight® Plunge

Before setup, remove all contents from the box and verify that all components are included. We recommend reading the full instructions before beginning.

### A. Move the Clearlight® Plunge Unit

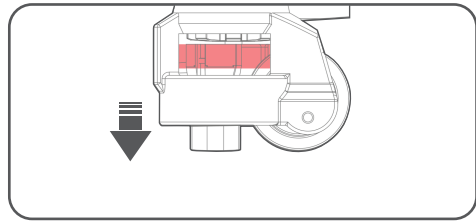
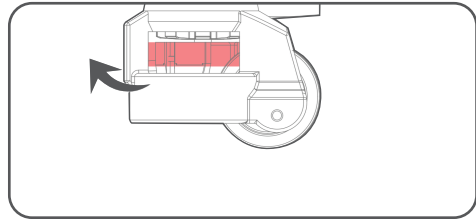
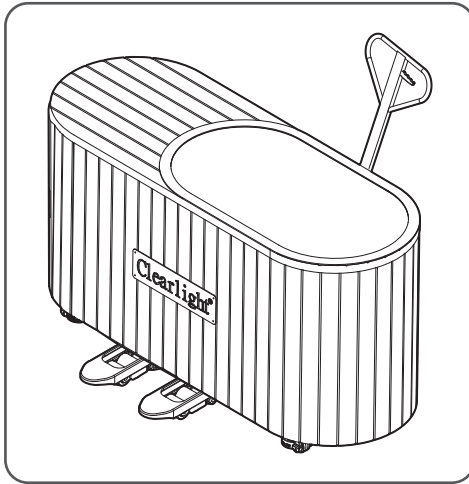
Place the unit near a standard household power outlet (AC 110–120V, 60Hz, 10.5A, grounded, and RCD-protected) on a level surface that can support approximately 800 kg (≈1,765 lbs).

Mobility features:

- Reinforced base for lifting with a forklift or pallet jack
- Heavy-duty wheels for easy relocation when empty
- Built-in leveling system to stabilize the unit after final placement

### To level the unit:

Manually turn the red adjustment knob to lower the rubber foot before filling with water.



### B. Position the Unit

The Clearlight® Plunge is suitable for indoor or outdoor use.

Installation guidelines:

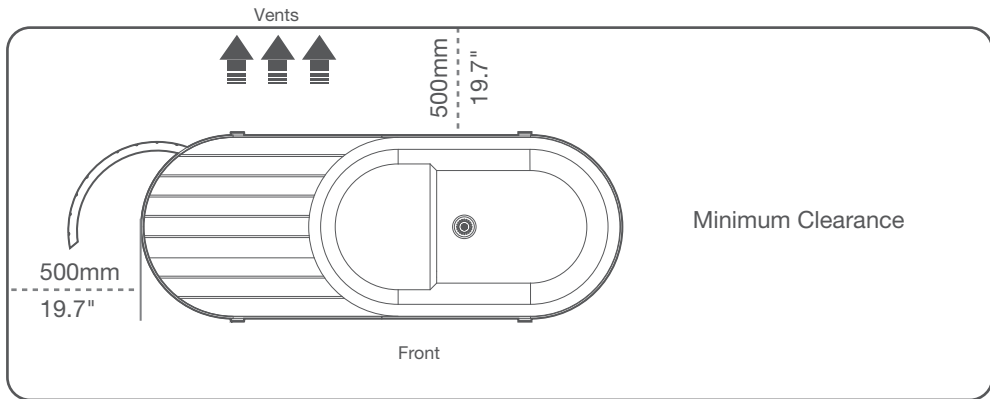
- Place in a shaded or covered area, away from direct sun and rain
- Maintain at least 19.7" (500 mm) of clearance around ventilation areas
- Ensure easy access to the maintenance doors and digital controller
- All electrical outlets or equipment must be at least 49.2" (1250 mm) from the internal rim of the tub
- Ensure a drainage system is available to handle overflow water

### C. Fill / Drain the Unit

Do not plug in or power on the unit until the inlet hole is fully submerged in water to avoid damage to the pump.

#### Filling & draining notes:

- No fixed plumbing is required
- The unit includes both fill and drain valves
- Compatible with standard hose sizes: 1", ¾", and ½"
- Optional: A permanent water connection may be installed by a licensed plumber



### D. Connect to Power

Plug the Clearlight® Plunge into a dedicated 15A household outlet.

#### Ensure the power cord:

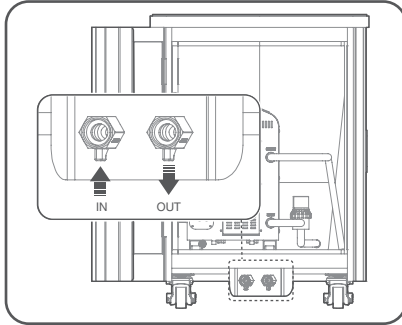
- Is securely plugged in
- Stays dry and positioned away from water contact

#### Safety features:

- Built-in 30mA Residual Current Device (RCD)
- External protection required: RCD (IΔn: 30mA) and a thermal breaker

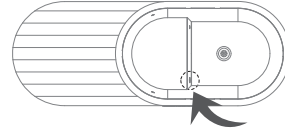
### E. Set the Desired Temperature

- Use the digital control panel to set your target water temperature.
- The initial water temperature will reflect the ambient fill temperature
- The unit will automatically heat or chill the water to maintain your selected setting



#### Inlet Location

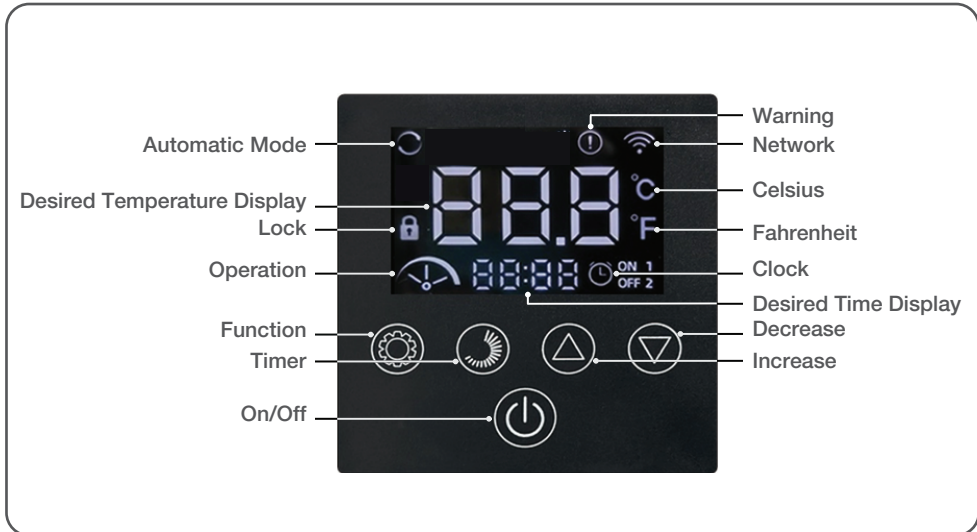
Ensure that the water level fully covers the inlet point before turning on the unit.



Front    Inlet Point

### 3. Display & Controls





#### Main Controls










#### On/Off Key




Press to power the device on or off. When off, the screen will show “OFF” and display current time. After 60 seconds of inactivity, the screen enters Lock mode.

- **To wake:** Press any key.
- **To unlock:** Press and hold the Function key for 2 seconds until the buzzer sounds (“DI”). The “Lock” icon will disappear.

	<b>Function Key:</b> Long press 2 seconds for lock and unlock the screen.
	<b>Timer Key:</b> Allows you to set the internal clock and session timer. Use this to customize session durations in hours and minutes.
	<b>Increase Key:</b> Raises the selected value or scrolls forward through available settings.
	<b>Decrease Key:</b> Lowers the selected value or scrolls backward through available settings.

### Display Icons & Symbols

	<b>Desired Temperature Display:</b> Shows the set temperature in either °C or °F.
	<b>Desired Time Display:</b> Shows the programmed session time. The first two digits represent hours; the last two digits represent minutes.
	<b>Automatic Mode Icon:</b> Illuminated when automatic mode is active.
	<b>Warning Icon:</b> Indicates a system error or malfunction. Refer to the troubleshooting section if this icon appears.
	<b>Network Icon:</b> Lights up when the device is successfully connected to a network.
	<b>Celsius (°C) Icon:</b> Indicates the temperature is displayed in Celsius.
	<b>Fahrenheit (°F) Icon:</b> Indicates the temperature is displayed in Fahrenheit.

	<b>Lock Icon:</b> Appears when the control screen is locked due to inactivity.
	<b>Clock Icon:</b> Illuminated when the timer is actively set and running.
	<b>Operation Icon:</b> After startup, the chiller requires ~3 minutes to activate. This icon confirms that cooling operations have begun.

#### 4. App Connection

To control your Clearlight® Plunge remotely, connect it to the SmartLife app using the steps below.

##### Before You Begin:

- Ensure your Wi-Fi network is active and supports 2.4 GHz frequency.
- Make sure your mobile phone is connected to the same 2.4 GHz Wi-Fi network.
- Do not use a 5 GHz Wi-Fi network—this is not supported.

##### Step-by-Step Instructions:

##### 1. Download the SmartLife App



Scan the QR code above to download the app.



Google Play

Or, search “SmartLife” in the App Store (iOS) or Google Play (Android) and download the official app.

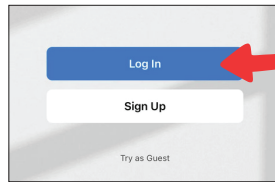
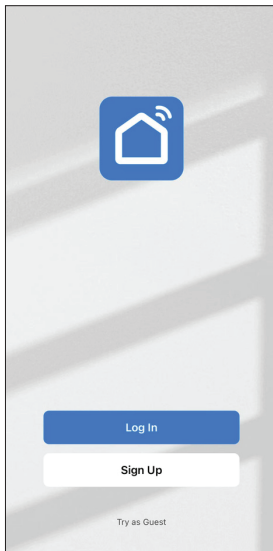
## 2. Download the SmartLife App

On the Plunge control panel, press and hold the “Function” and “Increase” keys at the same time for about 3 seconds.

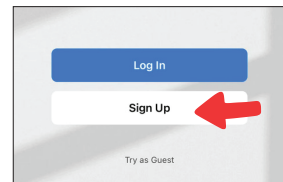
- The Network icon on the display will begin flashing, indicating it is ready to connect.



## 3. Open the App and Log In

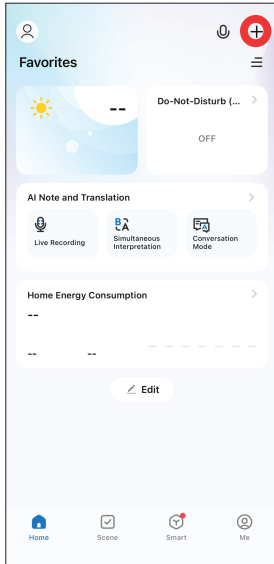


Tap the SmartLife app icon.  
Log in to your account.

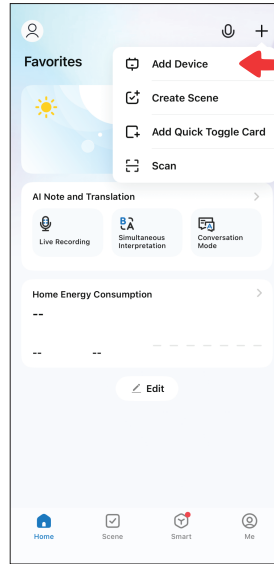


If you don't have one, tap  
“Register” to create a new  
user account.

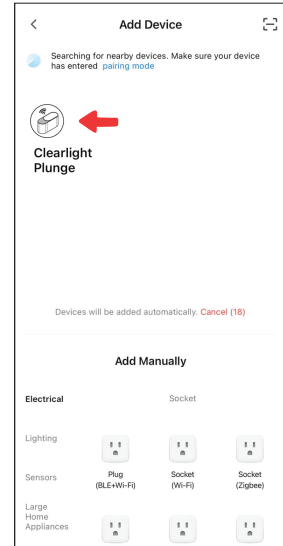
#### 4. Add the Clearlight® Plunge Device



From the app's main page, tap the "+" symbol.

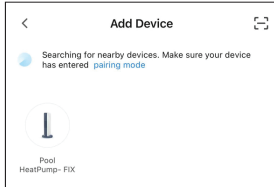


Select "Add Device" and wait a few seconds for the device to appear.

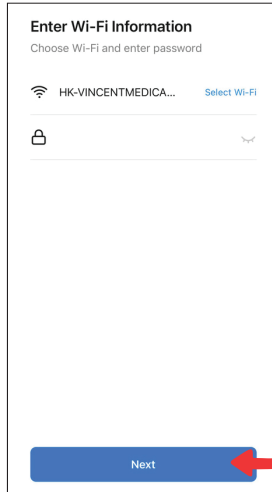


Tap the device labeled "Clearlight Plunge" when it appears on the screen.

## 5. Enter Wi-Fi Credentials

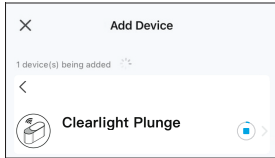


Enter your Wi-Fi network name and password.

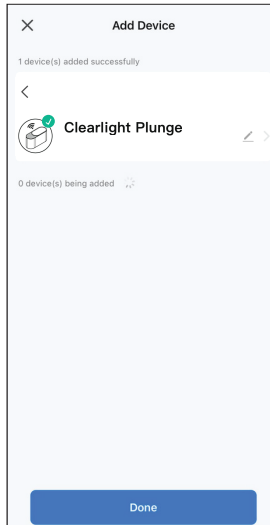


Confirm your phone is still on the same 2.4 GHz Wi-Fi network.

## 6. Download Firmware



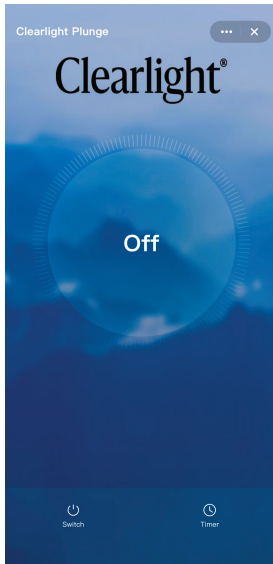
The app will now begin downloading the machine's firmware. This may take several minutes.



Once successful, a green checkmark will appear next to the Clearlight Plunge logo

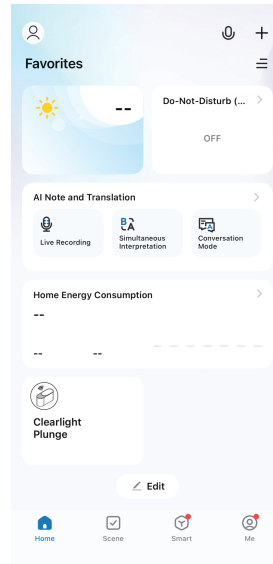
## 7. Complete Setup

- Tap “Done”.
- You’ll now be able to access the control page.
- Select your desired mode and temperature.



## 8. Confirm Connection

- Ensure that the app settings are synchronized with the physical display on your Clearlight® Plunge.
- If syncing fails, double-check your network connection and retry.
- Contact Clearlight Support if issues persist.



## 5. Control Panel (via SmartLife App)

Once the Clearlight® Plunge is connected to the SmartLife app, you can access all device controls directly from your phone.

### Overview

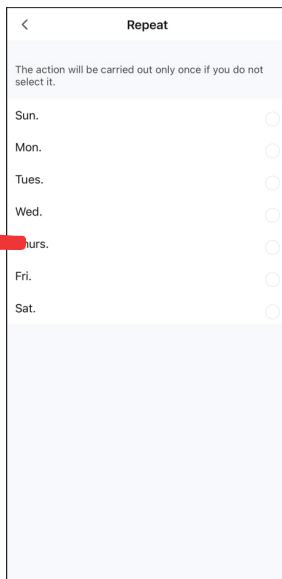
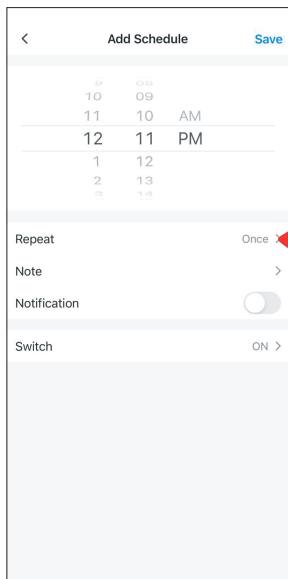
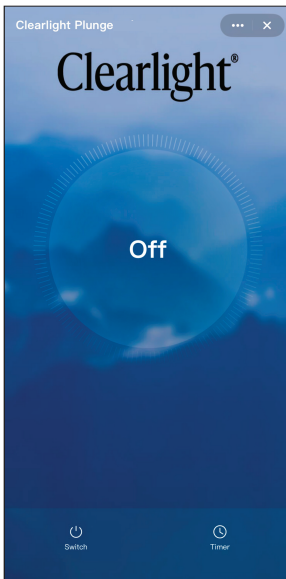
- The SmartLife app synchronizes in real time with your Clearlight Plunge unit.
- The control page displays the current on/off state, temperature settings, and timer options.

### Basic Controls

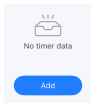
- Power: Tap the "Switch" button to turn the machine on or off.
- Temperature: Use the "+" or "-" buttons to increase or decrease your desired temperature.

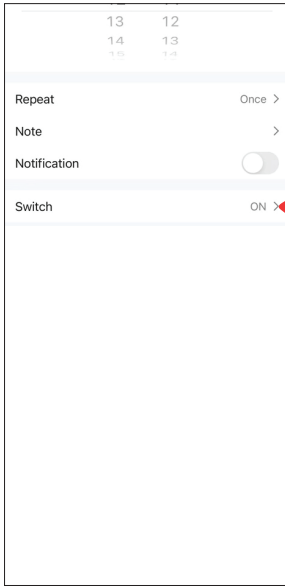


## 6. Timer Settings

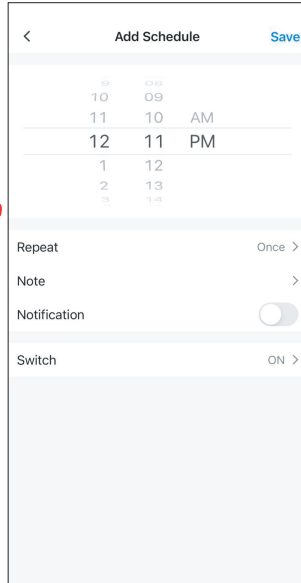


- Tap “Timer” to access the timer configuration page.
- Tap “Add” to add the Schedule.
- Select your desired Start or Stop times.
- To repeat the timer on specific days:
  - Tap “Repeat”.
  - Choose one or more days of the week.

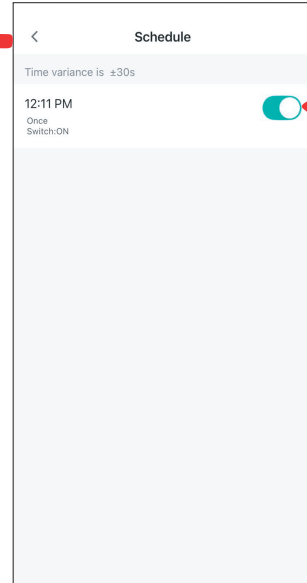




- To configure whether the timer powers the unit on or off, tap “Switch”.



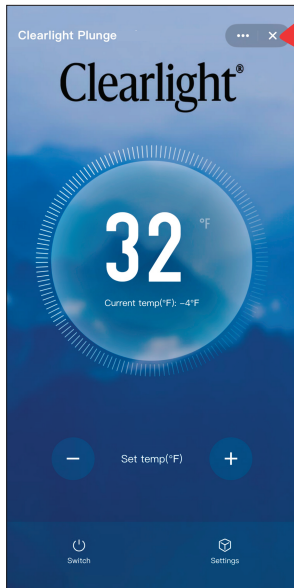
- Tap “Save” to confirm your timer settings.



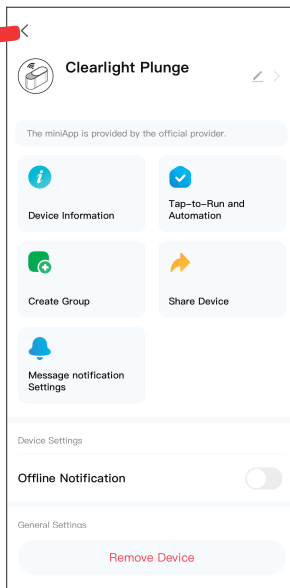
- You can enable or disable the saved timer from the Schedule screen.

**Tip:** This app function is identical to using the Timer button from the control panel while the unit is in standby mode.

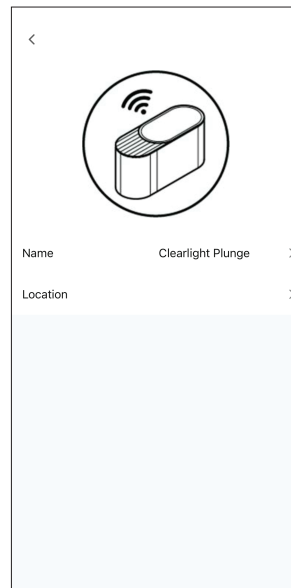
## Customizing the Device Name



- Tap “Modifying” to begin editing the device name.



- Tap “Modifying” again to confirm edit mode.



- Enter your preferred name for the device.

## 7. Temperature Settings

The Clearlight® Plunge allows precise temperature control for your cold or contrast therapy sessions.



### On-Unit Controls

Press the “Increase” or “Decrease” keys on the plunge unit to set your desired temperature.

While adjusting, the display shows the set temperature.

If no buttons are pressed within 3 seconds, the device automatically saves your setting and returns to displaying the current water temperature.

### In-App Controls

Use the “+” or “-” buttons in the SmartLife app to adjust the target temperature.

The temperature changes will sync with the unit's display.

### Switching Between °C and °F

To switch between Celsius and Fahrenheit:

Press and hold both the “Increase” and “Decrease” buttons on the unit simultaneously.

The display will update to show the new unit (°C or °F).

All temperature settings are applied automatically after adjustment.

## 8. Clock Settings

The internal clock is used for timer-based scheduling through the app and control panel.

### Viewing & Adjusting the Clock

- To access the clock settings, press and hold the “Timer” key for 3 seconds.
- Press the “Timer” key again to begin editing.
- The display format is HHMM (first two digits = hours, last two = minutes).
- Adjust the hours using the “Increase” or “Decrease” keys.
- Press “Timer” again to move to minutes, then adjust.
- Press “Timer” or “On/Off” to confirm and save.

If no keys are pressed for 30 seconds, the device saves changes and returns to the main screen.

## 9. Timer Settings

You can schedule automatic start and stop times for your Clearlight® Plunge using the built-in control panel. The system supports two timer groups.



### Accessing Timer Settings

- Press the “Timer” key to open the timer settings menu.
- The device supports two timer groups: Group 1 and Group 2, allowing you to set different time schedules.

### Setting Timer Group 1

- Use the “Increase” or “Decrease” keys to highlight Group 1.
- Press the “Timer” key to select it — the hour digits will begin to flash.
- Adjust the hours, then press “Timer” again to move to minutes.
- Repeat the same process to set the shutdown time for Group 1.

### Setting Timer Group 2

- Use the “Increase” or “Decrease” keys to highlight Group 2.
- Follow the same steps as Group 1 to set the startup and shutdown times.

### Activating / Deactivating Timers

- To activate or deactivate a timer group, press and hold the “Timer” key for 3 seconds.
- The Timer icon will illuminate when active.
- The icon will disappear when inactive.

### Finalizing Your Settings

- Press the “On/Off” key to save and return to the main screen.
- If no keys are pressed within 30 seconds, the system automatically saves your settings and exits.

## 10. Anitfreeze Mode

When the ambient temperature drops below 32 °F (0 °C) for 30 seconds, the device enters defrost mode. This pauses the compressor and activates the heat pump to raise the water temperature to 37 °F (3 °C) to prevent frosting.

- For extended shutdowns, either fully drain the system or add an appropriate antifreeze solution to prevent freezing and avoid damage to internal components.
- If the equipment will not be used during freezing conditions, please disconnect the power supply and drain all water to prevent damage from expansion.

## 11. Screen Lock

- To unlock, please long press the "Function" key for 2 seconds until the buzzer sounds "DI", deactivating the "Lock" icon.

## 12. Machine Running Time

- To protect the internal water pump, the machine has a built-in 3-minute delay before operation begins.
- After powering on and setting your desired temperature or mode, the unit will enter standby for approximately 3 minutes.
- Once the Operation icon illuminates on the display, this confirms the machine has officially started Cooling or Heating.

## 7. Troubleshooting

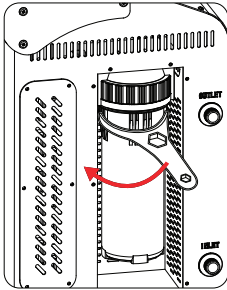
- When the "Warning" icon on the display illuminates, it indicates a potential error within the system.
- Here is the unit failure code display comparison table for you to check and solve the current issues.

Fault Code	Description	Possible Cause	Inspection and Troubleshooting
E01	Exhaust temperature fault	Loose or detached connector between sensor and mainboard Sensor probe detached Open or short circuit in sensor wiring Sensor failure	Check and secure connector between sensor and mainboard Re-fix the sensor probe Repair sensor wiring Replace sensor
E05	Coil temperature fault		
E09	Return air temperature fault		
E18	Outlet water temperature fault		
E19	Inlet water temperature fault		
E21	Communication fault with indoor unit	Loose connector between control panel and mainboard Signal line open circuit	Check and secure connector between control panel and mainboard Replace signal line

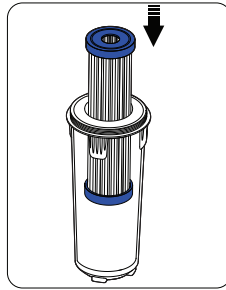
E22	Ambient temperature fault	Loose or detached connector between sensor and mainboard Sensor probe detached Open or short circuit in sensor wiring. Sensor failure	Check and secure connector between sensor and mainboard Re-fix the sensor probe Repair sensor wiring Replace sensor
P01	Water flow switch fault	Insufficient water flow Air in circulation pipe Damaged circulation pump Insufficient water in reservoir	Clean water filter and increase water flow Expel air from circulation pipe Inspect and repair circulation pump and capacitor Ensure water reservoir is filled
P02	High-pressure protection	High-pressure switch failure Insufficient water flow (heating mode) Fan not running or poor ventilation (cooling mode) System blockage, detached inlet water sensor (heating mode)	Replace high-pressure switch Increase water flow Inspect fan or remove obstructions Repair system and correctly fix inlet water sensor
P06	Low-pressure protection	Low-pressure switch failure Insufficient refrigerant Evaporator blockage or dirty fins (heating mode)	Replace low-pressure switch Leak test, repair, and recharge refrigerant to specification Remove blockage or clean evaporator fins
P11	Exhaust temperature over-protection	Insufficient refrigerant System blockage	Leak test, repair, and recharge refrigerant Inspect and clear system faults

P15	Excessive inlet/outlet water temperature difference	Insufficient water flow Air in circulation pipe Damaged circulation pump Insufficient water in reservoir	Clean water filter and increase water flow Expel air from circulation pipe Inspect and repair circulation pump and capacitor Ensure water reservoir is filled
P16	Over-cooling protection (cooling mode)	Low chilled water temperature Insufficient water flow	Check if water temperature setting is too low Clean water filter, increase water flow, inspect pump
P17	Standby anti-freeze protection	Ambient and water temperature too low during shutdown or standby	Normal protection; keep unit powered on or drain water from system
P23	Outlet water temperature too low (cooling mode)	Low chilled water temperature Insufficient water flow	Check if water temperature setting is too low Clean water filter, increase water flow, inspect pump
P25	Ambient temperature protection	Surrounding environment temperature too high or too low	Verify if ambient temperature is within unit operating range
P26	Overheating protection of outlet water (heating mode)	Excessively high heating water temperature Insufficient water flow	Check if water temperature setting is too high Clean water filter, increase water flow, inspect pump
P27	Overheating protection of outdoor coil (cooling mode)	Excessively high ambient temperature Hot air recirculation	Avoid installing unit in high-temperature environments Remove obstructions causing air short-circuiting

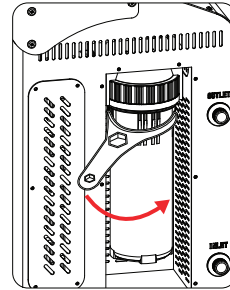
## Filter disassembly process



Remove the filter using a special wrench



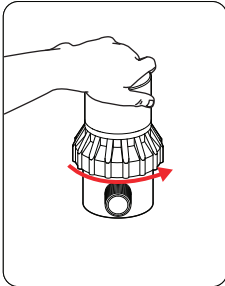
Loading filter paper



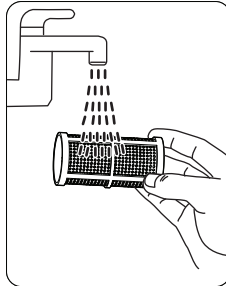
Install the filter using a special wrench

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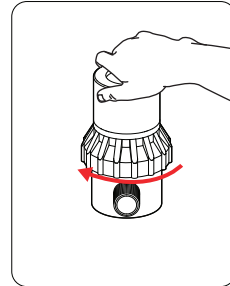
## The cleaning process of the pre-filter



Unscrew the housing in a counterclockwise direction and remove the filter element



Rinse the external element with clean water



Install the cleaned filter element back and tighten the housing in a clockwise direction

## 8. Precaution - Safety Guidelines

- **Ventilation:** Place the chiller in a well-ventilated area with at least 19.7" (500 mm) clearance behind the fan and 39.4" (1000 mm) of free space around the unit to ensure optimal cooling and performance.
- **Electrical Safety:** Verify that the rated voltage of the chiller matches your power supply. Do not touch the fan or electrical components while the unit is operating.
- **Filter Usage:** Always operate the unit with the stainless steel mesh filter installed to prevent debris from damaging internal components.
- **Orientation:** Do not turn or place the chiller upside down. This may cause damage to internal parts.
- **Parameter Settings:** Do not alter factory-set parameters unless directed to do so. If the unit fails to run, check if settings have been modified.

### Operating and Storage Conditions

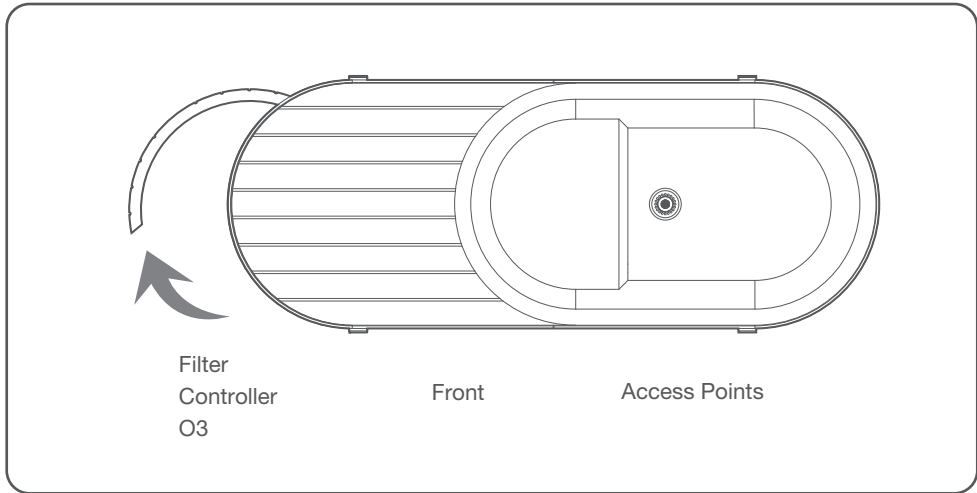
**Operating Temperature Range:** 33.8°F – 113°F (1°C – 45°C)

**Storage Temperature Range:** -4°F – 131°F (-20°C – 55°C)

**Storage Humidity:** 20% – 85% relative humidity

**Note:** Ensure the chiller is completely drained of water before storing to avoid internal freeze damage or corrosion.

## 9. Maintenance & Support



### Product Repair & Service

- Do not attempt to modify or repair any part of the Clearlight® Plunge. This will void the warranty and may be unsafe.
- If the unit becomes non-operational, review your warranty and contact the Clearlight Service Team.
- If the control unit is damaged, discontinue use immediately and contact Customer Support.
- If the supply cord is damaged, it is non-replaceable. Stop using the unit and contact Customer Support for further guidance.

For all technical questions or service needs, please contact our Clearlight Customer Support team.

## Maintenance & Water Quality

Proper care ensures optimal performance, safe operation, and extends the lifespan of your Clearlight® Plunge.

### Cedar Wood Exterior Care

- Cleaning: Wipe with a damp, lint-free cloth or soft brush.
- Refinishing (optional): Re-stain or seal every 6–12 months using polyurethane varnish. Lightly sand beforehand.
- Preventative Tips: Limit direct sunlight and moisture exposure to reduce cracking or warping.

**Note:** Natural color variation and wear in cedar is normal and not covered under warranty

### Stainless Steel Tub Care

#### Routine Cleaning

- Wipe the interior with a non-abrasive cloth or sponge using mild detergent and warm water with each water change.
- Clean waterline and edges regularly to remove buildup.
- Rinse thoroughly and dry with a soft cloth.

#### Avoid

- Abrasive scrubbers, steel wool, harsh or acidic cleaners.
- Chlorine-based products.

#### Occasional Deep Cleaning

- Use stainless steel cleaner and polish every few months.
- Promptly treat any stains.
- Only use cleaners formulated for stainless steel.

## Water Testing & Chemistry

Maintaining proper water chemistry protects your system and ensures safe, clean operation.

### Recommended Parameters

Parameter	Optimal Range
pH Level	7.2 - 7.6
Total Alkalinity	80 - 120 ppm
Calcium Hardness	150 - 250 ppm
Hydrogen Peroxide (H <sub>2</sub> O <sub>2</sub> ) (if used)	30 - 50 ppm
Magnesium/Epsom Salt (if used)	Max 1-2 kg per full
ORP (Oxidation-Reduction Potential) (Optional)	650 - 750 mV

\*If used — see below for more details.

### Usage Guidelines

- Maintain H<sub>2</sub>O<sub>2</sub> levels at 30–50 ppm (if used).
- Test pH and alkalinity regularly.  
Rinse filters more often if using H<sub>2</sub>O<sub>2</sub> (can accelerate debris buildup).

### Material Considerations

- H<sub>2</sub>O<sub>2</sub> over 50 ppm may wear internal components and seals.
- Can disrupt pH/alkalinity balance and require more frequent filter maintenance.

## Magnesium & Epsom Salt Use

### Benefits

- Warm water (95°F–107.6°F / 35°C–42°C): Promotes muscle relaxation and skin health.
- Cold water (32°F–59°F / 0°C–15°C): Still offers skin and recovery benefits.

## System Considerations

- Compatible with the ozone system.
- May contribute to mineral buildup in pumps, pipes, and filters.
- Do not exceed 1–2 kg per full Plunge fill.

## Extra Maintenance

- Rinse filter weekly if salts are used.
- If water becomes cloudy, reduce magnesium and perform a partial drain.
- Wipe stainless steel tub after draining to avoid salt residue.
- Check pumps and pipes for salt deposits.
- Replace water more frequently.
- Replace filters more often if needed.
- Flush the system periodically with fresh water only to prevent scaling.
- Do not exceed 3 kg per fill – this increases scaling and maintenance needs.

## Filter Maintenance

- **Every 2 weeks:** Rinse filter with clean water.
- **Monthly:** Soak in diluted hydrogen peroxide solution.
- **Every 1–3 months:** Replace filter for optimal performance.

**Tip:** If using magnesium salts, rinse the filter weekly.

You can purchase replacement filters at: <https://infraredsauna.com/>

## Water Replacement

### Recommended Schedule

- Every 1–3 months (depending on usage).
- Replace sooner if water becomes:
  - Cloudy
  - Foamy
  - Has an odor

### Tips

- Always drain through a proper drainage system.
- Rinse before each use to reduce contamination and extend water clarity.

## Ozone Generator Maintenance

- Check annually to ensure effective sanitization.
- Check for signs of failure (e.g., persistent water cloudiness).
- If signs of failure, schedule a service check with a certified Clearlight technician.

**Note:** Ozone generator servicing is not covered under warranty.

## Refrigerant Servicing

- Only a licensed technician may service or recharge refrigerant in the Clearlight Plunge.
- Unauthorized service may damage the unit, pose safety risks, or void your warranty.

## Final Maintenance Summary

- Do not use chlorine or bromine, the ozone generator provides natural disinfection.
- Hydrogen peroxide (optional) improves clarity and sanitization.
- Magnesium salts enhance the experience but increase maintenance needs.
- Regular water testing, filter care, and system checks are essential.

# 10. Storage & Winterization

Proper storage protects your Clearlight® Plunge from weather-related damage, ensures long-term performance, and maintains warranty coverage.

## General Storage Guidelines

Follow these steps when the unit is not in regular use, regardless of climate:

- **Power Disconnection:** Unplug the Clearlight Plunge from the outlet to prevent electrical hazards and unnecessary energy use.
- **Drain the Unit:** Remove all water before storage to prevent mold, mildew, and internal corrosion.
- **Dry Thoroughly:** Use a soft cloth to ensure the tub, pump, and filter area are completely dry.
- **Storage Environment:**
  - Store in a dry, well-ventilated area.
  - Avoid locations with excessive moisture, dust, or heat.
  - Do not store in temperatures above 140°F (60°C)

Always store the Clearlight Plunge with the lid closed to keep out debris and moisture.

## Winterization Guide (For Temperatures Below 32°F / 0°C)

If you live in a region that experiences freezing temperatures or severe storms, follow these steps to prevent permanent damage.

### 1. Monitor Weather Conditions

- Check the local forecast regularly for extreme cold or storm alerts.
- Plan ahead and act early, do not wait until temperatures drop below freezing.

### 2. Power Down & Drain the Unit

- Turn off and unplug the unit completely.
- Open the drain valve to fully empty the tub. Refer to the Quick Setup section for valve location.
- Remove the filter and ensure no water or debris remains.
- Allow the unit to air dry completely to avoid residual moisture freezing inside.

### 3. Protect Pump & Plumbing

- Disconnect the pipe from the pump to release any trapped water.
- Wipe down and inspect the pump compartment and filter housing.
- Use towels or a small wet/dry vacuum to remove lingering moisture.

### 4. Store Indoors (If Possible)

- If extreme cold is expected, move the Clearlight Plunge into a:
  - Garage, Shed, Covered porch or Other sheltered space
- Avoid prolonged exposure to frost, ice, or wind chill.

### Severe Weather Alert

If heavy storms or deep freezes are forecasted:

- Immediately fully drain the unit.
- Store indoors or under shelter.
- Review the steps above for full winterization.
- Do not assume brief weather windows will keep the unit safe — proactive storage prevents costly repairs.

## 11. FCC Requirement

**Spacing:** changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

## 12. Warranty

### **CLEARLIGHT® PLUNGE — LIMITED RESIDENTIAL WARRANTY (U.S. & CANADA)**

Clearlight (“Company,” “we,” “us,” “our”) is committed to providing high-quality wellness products designed to support your health and well-being. This Limited Warranty is provided to the original residential purchaser (“you,” “your,” “purchaser”) of the Clearlight® Plunge (“Clearlight Plunge”) and ensures the product is free from defects in materials and workmanship under normal use.

#### **1. Definitions**

1.1 **“Defect”** means a defect in materials or workmanship that makes the Clearlight Plunge unusable for normal operation. “Defect” does not include:

- (a) issues caused by:
  - (i) any modification not authorized by Clearlight in writing;
  - (ii) any Excluded Matter;
- (b) normal wear and tear.

1.2 **“Excluded Matter”** means any matter listed under Section 4 (Warranty Exclusions).

1.3 **“Clearlight Plunge”** includes the factory-installed chiller unit, control system, internal plumbing components, and any accessory included with the product at time of purchase.

1.4 **“Regular Use”** means using the Clearlight Plunge strictly according to the User Manual.

1.5 **“User Manual”** means the installation, operation, care, and maintenance instructions provided or made available by Clearlight.

1.6 **“Warranty Period”** means two (2) years from the original date of purchase.

## 2. Warranty Activation

Your warranty is automatically activated at the time of purchase. No product registration is required. To confirm warranty eligibility, you must provide valid proof of purchase (invoice or receipt) showing the purchase date.

## 3. General Warranty Coverage

3.1 This warranty applies to any Defect in the Clearlight Plunge that:

- (a) is due to faulty materials or workmanship;
- (b) develops during Regular Use within the Warranty Period;
- (c) is reported to Clearlight in writing within the Warranty Period and includes:
  - description of the issue,
  - photos or video (where applicable),
  - proof of purchase from Clearlight or an authorized reseller.

3.2 If your Clearlight Plunge is repaired or replaced, the repaired or replacement unit is covered for the remainder of the original Warranty Period or 90 days, whichever is longer.

## 3. Warranty Exclusions

This Limited Warranty does not cover any damage, malfunction, or failure resulting from:

### 4.1 Improper Use or Handling

- (a) misuse, abuse, negligence, or failure to use the product as intended;
- (b) failure to maintain, clean, or service the product per the User Manual;
- (c) ignoring early signs of issues (e.g., leaks, abnormal noise).

### 4.2 Unauthorized Modifications or Repairs

Any repair, adjustment, or modification not carried out or authorized by Clearlight.

### 4.3 Accidental or Physical Damage

Including but not limited to:

- impact damage (dropping, hitting, kicking, stepping on, etc.)
- improper installation not performed or authorized by Clearlight
- damage caused by water intrusion into electrical components due to misuse

#### **4.4 Environmental Exposure**

Damage from:

- storms, snow, ice, flooding, direct or prolonged sunlight
- excessive heat or humidity
- freezing temperatures due to improper winterization
- corrosive environments

(Outdoor installation is allowed, but the purchaser must ensure proper care, drainage, and weather protection per the User Manual.)

#### **4.5 Electrical Issues**

Damage caused by:

- incorrect voltage or power supply
- power surges or dips
- thunderstorm activity
- unauthorized electrical connections
- extension cords (unless approved in writing)

#### **4.6 Improper Water Quality**

Including but not limited to:

- high mineral content
- corrosive or contaminated water
- failure to follow water-care instructions
- damage from algae, debris, or chemical misuse

#### **4.7 Consumable or Degradable Components**

Unless failure is due to a manufacturing defect:

- filters
- UV lamps (excluding LEDs)
- batteries
- Ozone components
- gaskets and seals (normal wear)

#### **4.8 Non-Approved Parts or Modifications**

Any third-party or non-factory components, accessories, parts, or modifications. Use of such items may void the entire warranty at Clearlight's sole discretion.

#### **4.9 Situations Where Warranty Does Not Apply**

- unit was a display model (unless written warranty provided at purchase)
- purchaser cannot provide proof of purchase
- improper installation (unless installed by Clearlight)
- failure to follow operating or storage instructions
- tampering with or altering internal components
- use by businesses, rentals, studios, or any commercial activity

### **5. Warranty Claim Process**

#### **5.1 How to Make a Claim**

(a) Contact Clearlight Customer Support at:

[www.infraredsauna.com/support](http://www.infraredsauna.com/support) or call (800) 798-1779.

(b) Submit the Warranty Claim Form and provide all requested information, including photos or videos.

#### **5.2 Faulty Products**

(a) Clearlight may first attempt to repair the product. You must allow safe and reasonable access for inspection and repair.

(b) If a repair is not possible, Clearlight will offer either a replacement product or a refund of the purchase price.

(c) If you choose a replacement and your exact model is discontinued, Clearlight may provide a product of equal or greater performance.

(d) Clearlight will cover shipping of replacement units only if Clearlight elects to replace the defective unit under warranty.

### **6. Returns Policy (Change of Mind)**

- We do not offer refunds or returns for change-of-mind purchases.
- Please contact Clearlight before purchasing if you have questions about product fit or installation requirements.

## 7. Limitation of Liability

7.1 Clearlight's total liability is limited to the repair or replacement of the defective product or a refund of the purchase price.

7.2 Clearlight is not responsible for any incidental, indirect, consequential, special, or punitive damages, including but not limited to:

- loss of use
- loss of profit
- loss of business
- inconvenience
- personal property damage

7.3 Clearlight is not liable for any damages arising from commercial use.

7.4 Clearlight is not liable for injuries or property damage resulting from misuse, improper installation, or failure to follow the User Manual.

## 8. Disclaimer

8.1 To the fullest extent permitted by law:

- (a) all implied warranties, including merchantability or fitness for a particular purpose, are disclaimed;
- (b) this Limited Warranty replaces all other warranties;
- (c) no distributor or reseller may modify this warranty.

8.2 The Clearlight Plunge is not a medical device and makes no medical claims.

8.3 Users should consult a healthcare professional before use.

## 9. Consumer Rights

9.1 This warranty is provided in addition to rights you may have under federal or state law.

9.2 Some states do not allow limitations on implied warranties or exclusion of incidental or consequential damages; in such states, these limitations may not apply.

## **10. Contact Information**

Clearlight / Sauna Works, Inc.  
Warranty Service Department  
1077 Eastshore Highway  
Berkeley, CA 94710  
Phone: (800) 798-1779  
Website: [www.infraredsauna.com/support](http://www.infraredsauna.com/support)

## **11. Additional Terms**

### **11.1 Transferability**

This warranty is non-transferable without Clearlight's prior written consent.

### **11.2 No Modification**

No agent, dealer, or service provider may alter this warranty.

### **11.3 Governing Law**

This warranty is governed by the laws of California, unless otherwise required by state law.

### **11.4 Severability**

If any provision is determined unenforceable, the remainder shall remain valid.

## 13. Contact Information

For your record, please complete the following information. You will need to refer to this information when calling Clearlight® customer service.

**Date of Purchase:**

**Date of Delivery:**

**Model Number:**

**Serial Number:**

**Dealer information (Name and Telephone number):**



# Clearlight Plunge







