

FIFR CHILLER BOX®

OPERATION MANUAL

This water chiller is designed with an eco-friendly compressor that cools quickly and runs efficiently.

It uses high-quality titanium tubing to transfer heat and has a smart controller for accurate temperature control with very low noise.

Main Features

- Accuracy: $\pm 1^{\circ}\text{C}$
- Display Precision: 0.1°C
- Customisable Temp Control Range
- Refrigeration Output: 20A
- Power Supply: 220V or 110V ($\pm 10\%$), 50/60Hz
- Power Usage: Less than 3W
- Humidity: 20% to 85% (non-condensing)



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Thank you for purchasing this product, please read this operation instruction carefully before using the product and keep it properly.



What is Included

- 1 x FIFR Chiller Box
- 2 x Water Pipes
- 1 x Power Cord
- 1 x Operation Instructions

Features

- Compact, portable design
- Quiet and energy efficient
- Hassle-free installation and maintenance
- LED screen temperature control
- Built-in water pump and high-density particle water filter
- Insulated water pipes for optimal chilling performance
- 2/ 3 Horsepower system cools water down to 3.3°C (38°F) without adding ice

Warning & Safety Information

Electricity

- To prevent accidents or death, please pay attention to your safety and make sure you fully read and follow this instruction manual before use. Keep for future reference.
- During and after transportation, the FIFR Chiller Box must always stay upright on a stable surface.
- Make sure the FIFR Chiller Box is plugged into an AC socket or extension cable that is suitable for use.
- Ensure the FIFR Chiller Box is always kept dry; do not immerse, splash or spray the unit with water. If the unit does get wet, unplug it immediately and do not use it.
- Never leave the FIFR Chiller Box switched on when staying in the water; always ensure the unit is switched off during your cold-water therapy session.
- If the FIFR Chiller Box stops working or does not work when switched on, unplug it immediately and do not use it.
- We accept no responsibility for misuse or failure to use this equipment safely as instructed.
- Working Temperature: 2°C- 45°C (35°F -113°F).
- Storage Temperature (No water inside the chiller): -20°C -55°C (-4°F - 131°F) storage Relative Humidity: 20% - 85%.

Caution

- Operators must be 18 years or older.
- Avoid using the FIFR Chiller Box with wet hands.
- Keep the power cord away from heavy objects, and do not run it under carpets.
- Do not insert objects into the chiller's vents or openings.
- Exercise caution around children, the elderly, and those with mobility issues.
- Always keep the FIFR Chiller Box upright and on a stable, level surface, do not invert.
- Install the FIFR Chiller Box in well-ventilated areas (at least 100cm of clear space around vents for airflow), avoiding closets or cabinets and keeping vents clear of obstructions.
- Do not disassemble or modify the FIFR Chiller Box.
- Avoid using in very humid or dusty conditions.
- For electrical issues, contact authorised servplunge personnel.
- Keep pets and children away during operation.
- Report any sign of damage, leaking, strange noises, smells, or performance issues immediately.
- Disconnect power before maintenance or cleaning.
- Avoid placing the FIFR Chiller Box in direct sunlight or near heat sources.
- Ensure the filter is installed when the FIFR Chiller Box is working.
- Regularly clean the water filter and dust net for optimal efficiency.
- If the ambient temperature drops to 0°C (32°F), disconnect the pipes and open the drainer to fully drain all water from FIFR Chiller Box to prevent freezing damage.

How To Get Started

- **After transportation and before use, the FIFR Chiller Box must be left for 24 Hours for the refrigeration gas to settle.**
- Read the operation instruction carefully before using the FIFR Chiller Box.
- Complete the steps in the QUICK START GUIDE to assemble your FIFR Chiller Box and connect it to your FIFR Plunge Barrel, FIFR Plunge Tub or FIFR Plunge Tub Max.



Quick Start Guide

01

Make sure you have first assembled your FIFR Plunge Barrel, FIFR Plunge Tub or FIFR Plunge Tub Max according to the manual instructions before continuing. **Do not fill tub with water before the FIFR Chiller Box is set up.**



02

Place the FIFR Chiller Box on a flat, stable surface, it should not be placed higher than the tub as this will restrict water flow.

03

Connecting the water pipes.

Tip: Please ensure that the PTFE Tape (not included) is evenly wound around the threaded section to effectively prevent any potential leakage.

Attach the First water pipe: Screw one end of the first water pipe into the *top valve* on the tub labelled "Water In".



Push the opposite end firmly into the connector on the FIFR Chiller Box labelled "Water Out" and secure by pressing the metal clasps back against the water pipe.



Attach the Second water pipe: Screw one end of the second water pipe to the *bottom valve* on the tub labelled "Water Out".

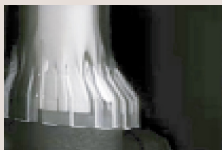


Push the opposite end into the connector on the FIFR Chiller Box labelled "Water In" and secure with clasps.

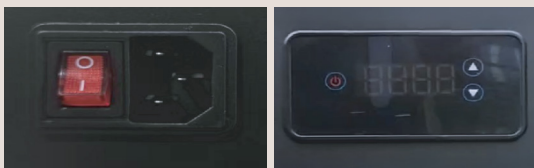


04 Fill the tub with water using a hose until the water is roughly 8 inches (20cm) from the top. Water should sit just under the top hole inside the tub.

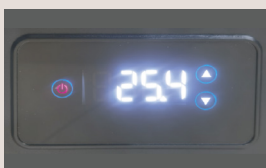
05 Ensure the filter lid is 'hand tight'.



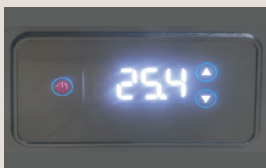
06 Plug in and flip the power switch on the back of FIFR Chiller Box to ON. Press and hold the power button on the screen panel to turn on the chiller, water should start circulating immediately.



07 The screen will display the temperature of the water in the tub. The refrigeration light will be flashing for about 3 minutes while the FIFR Chiller Box is self-priming.



08 Set the desired water temperature using the Up and Down buttons on the screen panel.



09 The screen control will be locked after 30 seconds without operation. To unlock the screen, long-press and hold the Power and Down buttons together for 5 seconds.



10 Once the FIFR Chiller Box has finished its priming cycle, it will start to chill and filter the water. This should take a few minutes.

11 It takes 8-12 hours for the FIFR Chiller Box to cool the water from 21°C (70°F) down to 5°C (41°F) This is dependent on the outside temperature and water volume inside the tub.

Usage & Care Instructions

Indicator Lights

Refrigeration: Light ON when cooling/heating is active.

Delay: Flashing during delay period.

Set: Light ON when in settings mode.

Settings Menu

St: Target Temp (shutdown point) °C.

F1: Temp Buffer (1–10°C), Default: 2°C.

F2: Temp Calibration (-10 to +10°C), Default: 8°C.

Button Functions

- ▲ Increase value.
- ▼ Decrease value.
- ⏻ Turn unit on/off (press and hold 3 seconds).

How to Use Chiller Box

To Set Temperature:

1. Press ▲ or ▼ — the “SET” light will come on.
2. Use ▲ or ▼ to adjust the temperature.
3. Wait 3 seconds — the setting is saved automatically.

To Enter Settings Menu (F1, F2, etc.):

1. Press and hold ▲ + ▼ together for 3 seconds.
2. Use ▲ or ▼ to choose and adjust settings.

Unlock

The devplunge will automatically lock if no button is pressed for one minute. Press and hold ⏻ + ▼ for 3 seconds to unlock.

WiFi Configuration

WiFi network configuration: long press ⏻ display OFF, press ▲ + ▼ for 3 seconds and “--” will appear on the display screen, then it will enter the network configuration state, and it will automatically exit this state after the network configuration is successful.

Alarm

E01: Cabinet temperature sensor failure.

HHH: Cabinet high temperature alarm.

LLL: Cabinet temperature low temperature alarm.

Refrigeration

Normal Operation: Compressor turns on when temperature > Set value + F3 (hysteresis). Compressor turns off when temperature < Set value. Compressor always runs for at least the minimum interval time.

Sensor Failure: Compressor runs in a fixed cycle: Off 30 min / On 15 min (repeats).

Note: Minimum interval time starts from when the controller is first powered on.

Safety Rules

- Always identify sensor leads, power lines, and output relay interfaces clearly.
- Do not connect them incorrectly or overload the relays.
- Disconnect the power supply before making any wiring connections.
- Do not use this machine in or near water, excessively humid environments, or areas with high temperature, strong electromagnetic interference, or corrosive conditions.
- Ensure the power supply voltage matches the rating on the machine and remains stable.
- To reduce interference, keep sensor leads away from power lines.
- When installing the evaporator sensor position it 5 cm from the evaporator inlet and make sure it is in good contact with the copper tube.

Safety Tips

- Always check the power supply voltage before use.
- Ensure water is flowing before turning on refrigeration.
- Keep air vents clear.
- If you notplunge strange noises, smells, or overheating — turn it off and contact support.
- Keep it clean and well-maintained for best performance

WARNING!

This machine is prohibited from being used in water or in an excessively humid environment or in an environment with high temperature, strong electromagnetic interference or strong corrosiveness.



Operating Steps

- Connect the water pipe.
- Fill your FIFR Plunge Barrel, FIFR Plunge Tub or FIFR Plunge Tub Max with water.
- Link power supply.
- Turn on the FIFR Chiller Box.
- Set the temperature.

Cleaning and Maintenance

After every time use, the internal water of the machine needs to be drained, drain the residual water from the water inlet hole by tilting it, especially in winter, after each time use, it must be drained to prevent the internal water storage from being frozen and cracked. The filter element needs to be cleaned in time.

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