Coldercatti

Vessel Pro



Owners Guide

Installation · Operation · Care

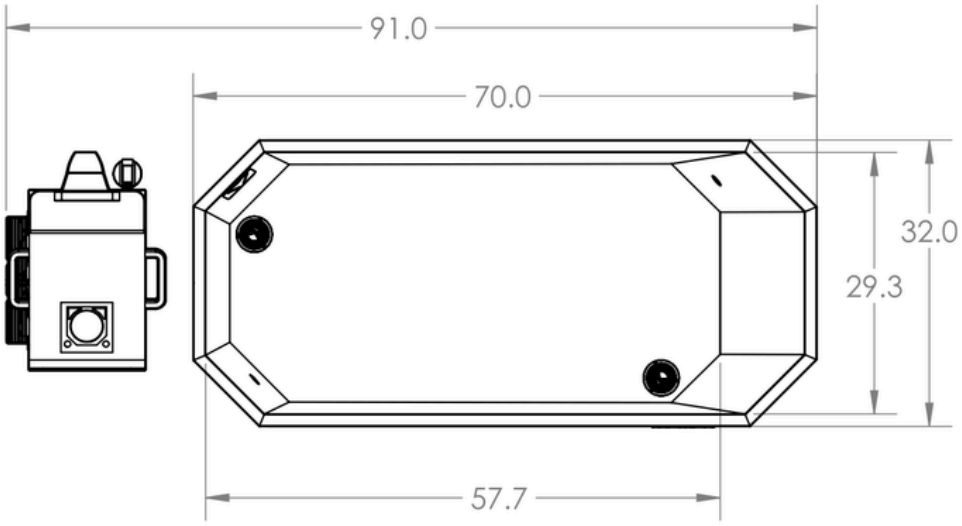
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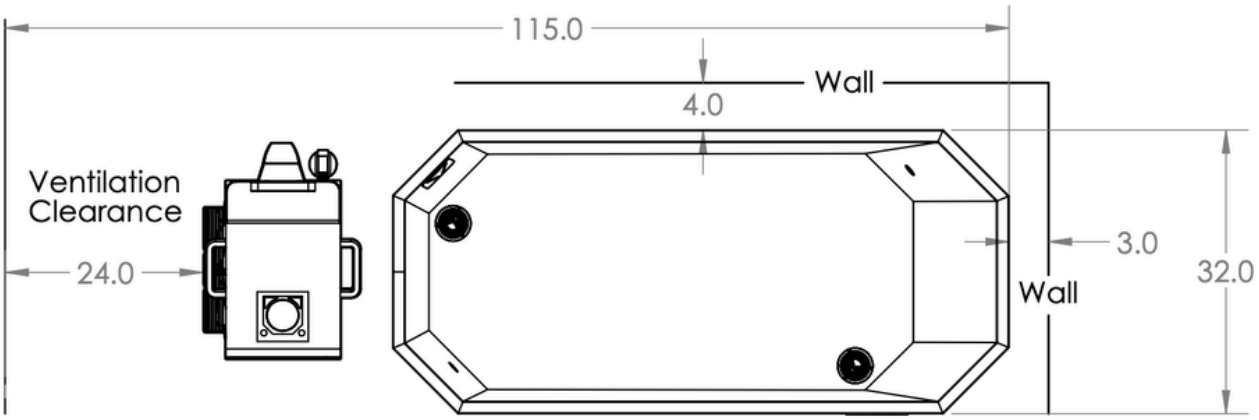
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Product Dimensions



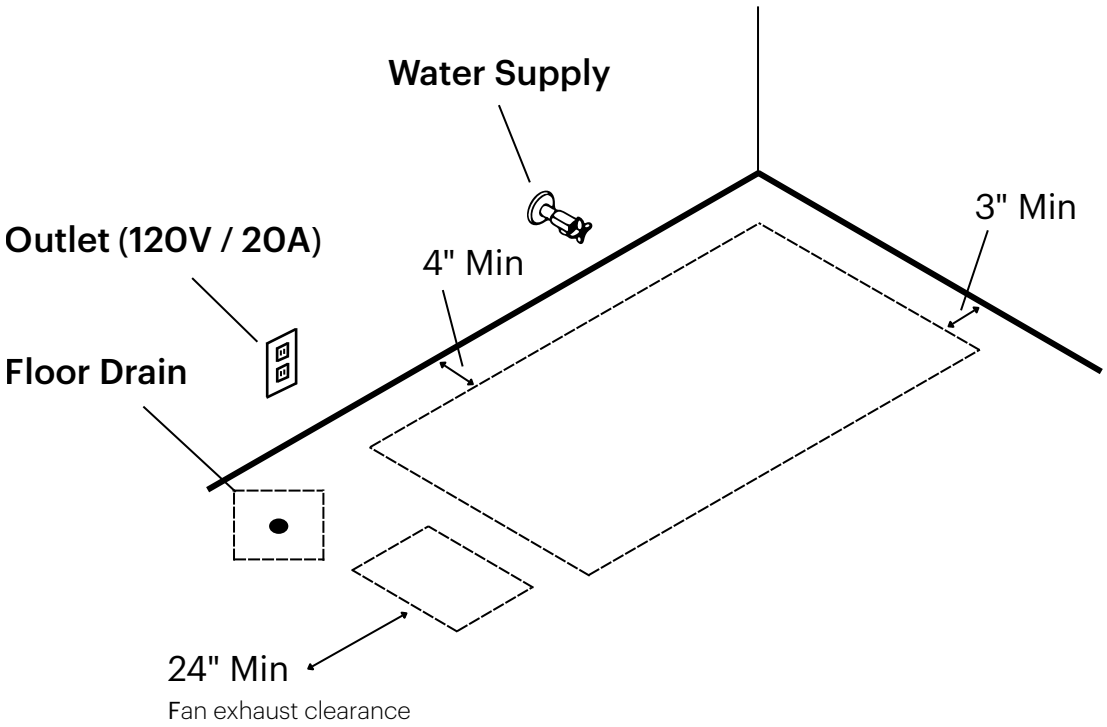




Installation & Setup

Site requirements

- Place the Vessel Pro and Hyperchiller on a solid, level, waterproof surface.
- Maintain space surrounding the ice bath as detailed in the roughing-in image below.
- The cord is 5 ft. long. If you plan to use an extension cord, use a 12-gauge.



Note: chiller can be placed remotely, up to 40 feet away from tub, and connected via 2 water lines. Choose between Colderatti insulated water lines or dedicated plumbing lines (See 'Remote-Chiller Setup' for details).

Plumbing Requirements: The unit is designed for self-contained, freestanding operation with no permanent plumbing required. Unit may be operated by draining/filling with a standard hose. Water supply and floor drain are recommended for an integrated setup, but entirely optional.

Electrical Outlet	Voltage	Amperage
GFCI Receptacle Recommended	120V	Dedicated 20A Circuit

Drain/Fill Without Plumbing:

*Plumbing is optional. For drain and fill plumbing instructions, see the next page.

To Fill:

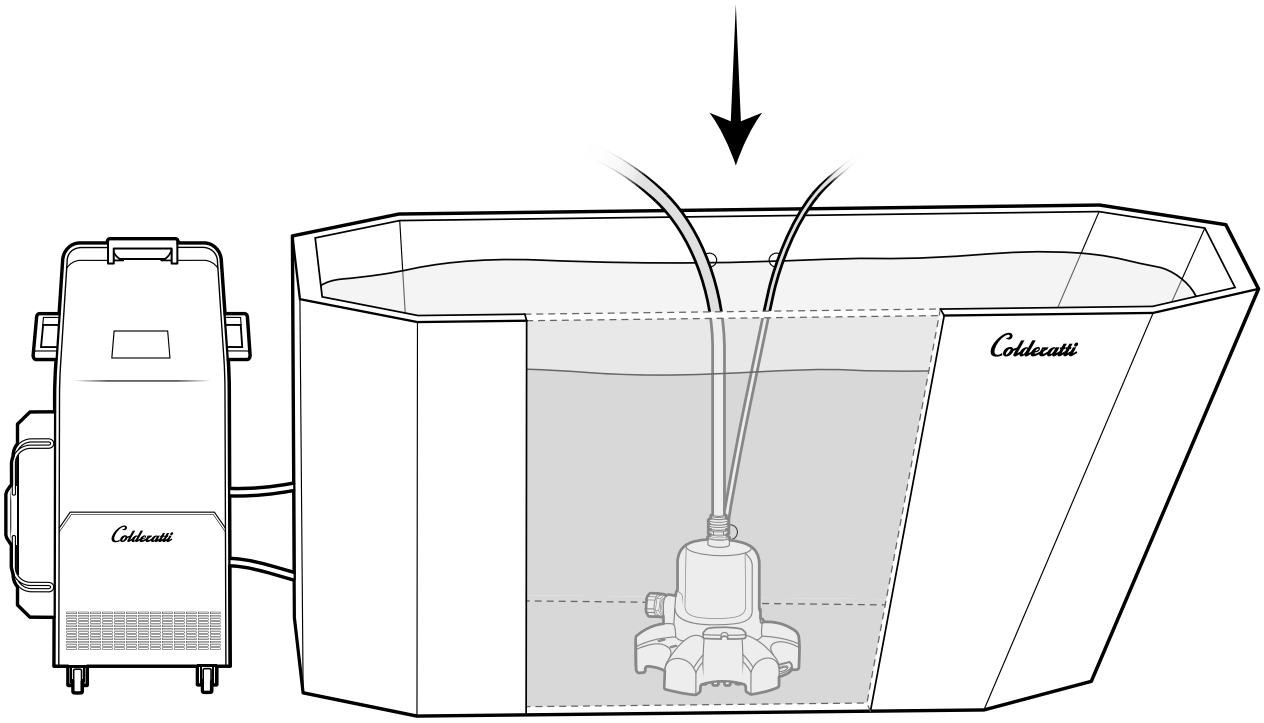
Using a garden hose, fill the tub with water until the water level reaches the middle of the skimmer.

To Drain:

Attach a hose to the drain valve, then open the valve to drain.

If you have an automatic water pump:

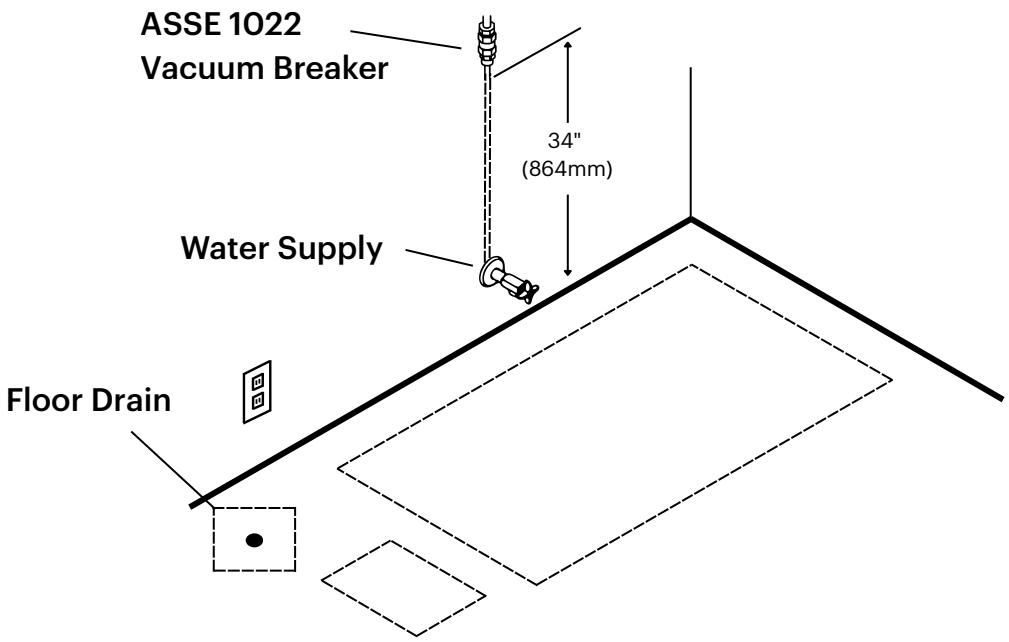
- Connect a garden hose to the top port of the automatic water pump.
- Submerge the pump fully in plunge basin until it rests on the bottom.
- Route hose to drain location, plug in pump. Monitor water level.



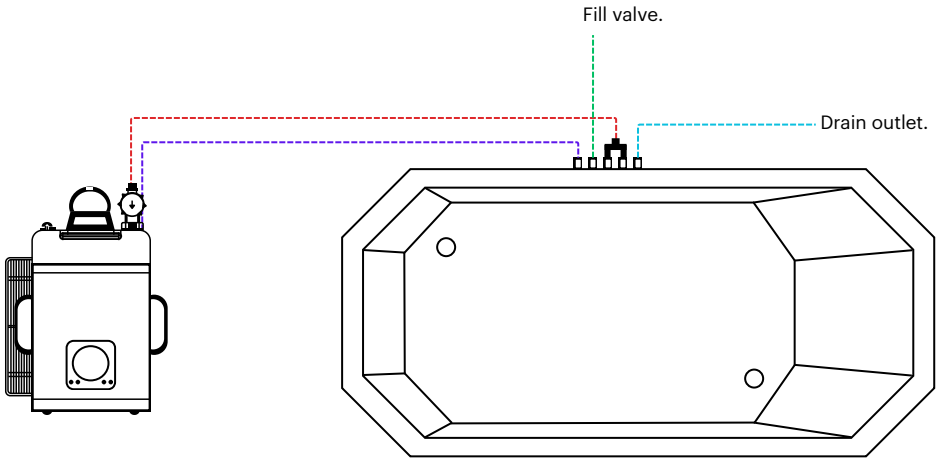
Drain/Fill With Plumbing:

1. Drain valve: 1" NPT stainless steel thread. Connect to nearby floor drain.
2. Fill valve: 1" NPT stainless steel thread. Connect to water supply.

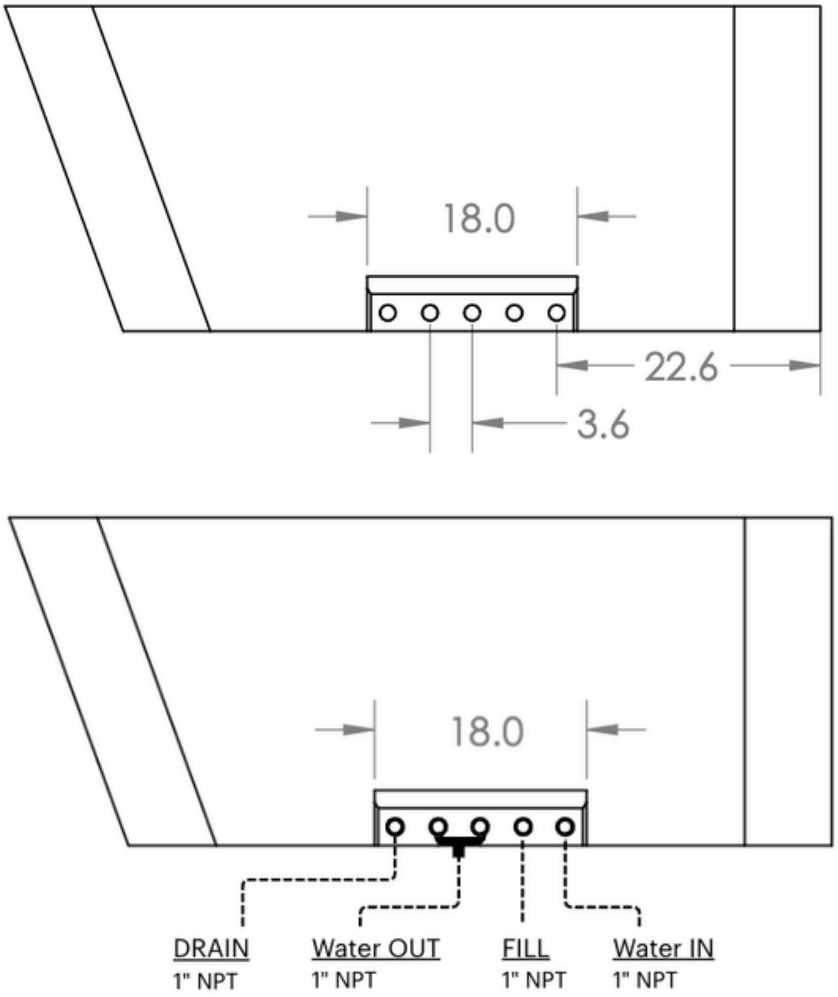
*refer to next page for precise drain/fill valve locations



Indoor Installations Only: Install a vacuum breaker to the water supply pipe. Locate the vacuum breaker 34″ (864 mm) from the floor to achieve a height of 6″ (152 mm) above the bath rim.



Vessel Pro Valve Specifications:



Hydraulic Connections:

Water OUT	→	To Hyperchiller INLET
Water IN	→	To Hyperchiller OUTLET
DRAIN	→	Optional DRAIN outlet. Allows routing to nearby floor drain or plumbing connection to sanitary septic line.
FILL	→	Optional FILL valve. Allows connection to site water supply.

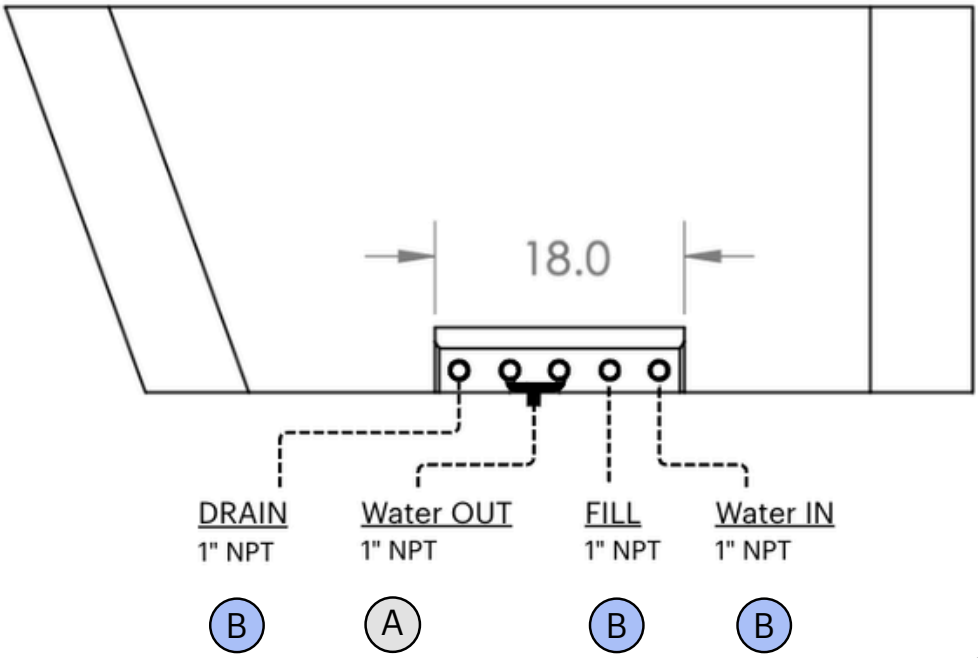
1. Connect valves and pre-filter:

(A) Attach two-way valve to the 2nd and 3rd hydraulic connection ports.

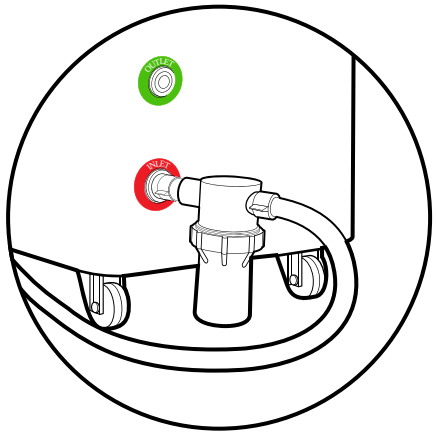
(B) Attach stainless steel shutoff valves to the 3 remaining ports.

(C) Attach pre-filter to the Hyperchiller INLET. Ensure the rubber o-ring gasket is present before you screw it on.

(D) • Twist water OUT and water IN valves to the ON position.
• Shut DRAIN and FILL all valves to the OFF position.
(ON position = straight, OFF position = sideways).

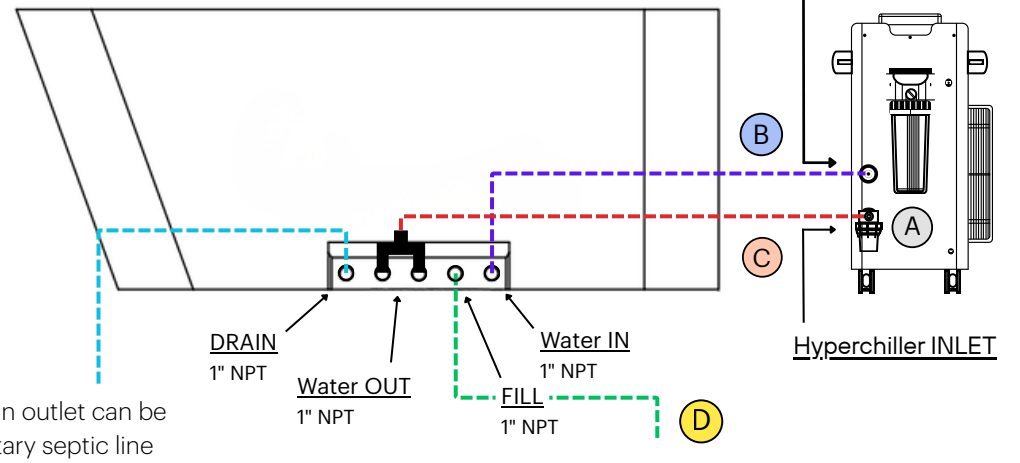


Hyperchiller: backside



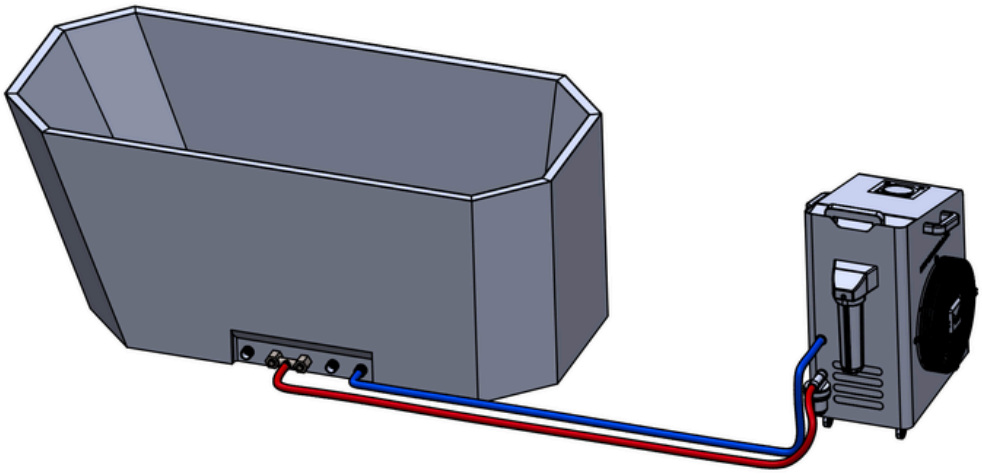
2. Connect water lines:

- (A) Confirm pre-filter is attached to the Hyperchiller INLET.
- (B) Connect one water line from the Hyperchiller **OUTLET** ⟶ **Water IN.**
- (C) Connect second water line from the pre-filter on the **INLET** ⟶ Water **OUT**.
- (D) Confirm the DRAIN and FILL shutoff valves are on the tub and twisted to the OFF position.



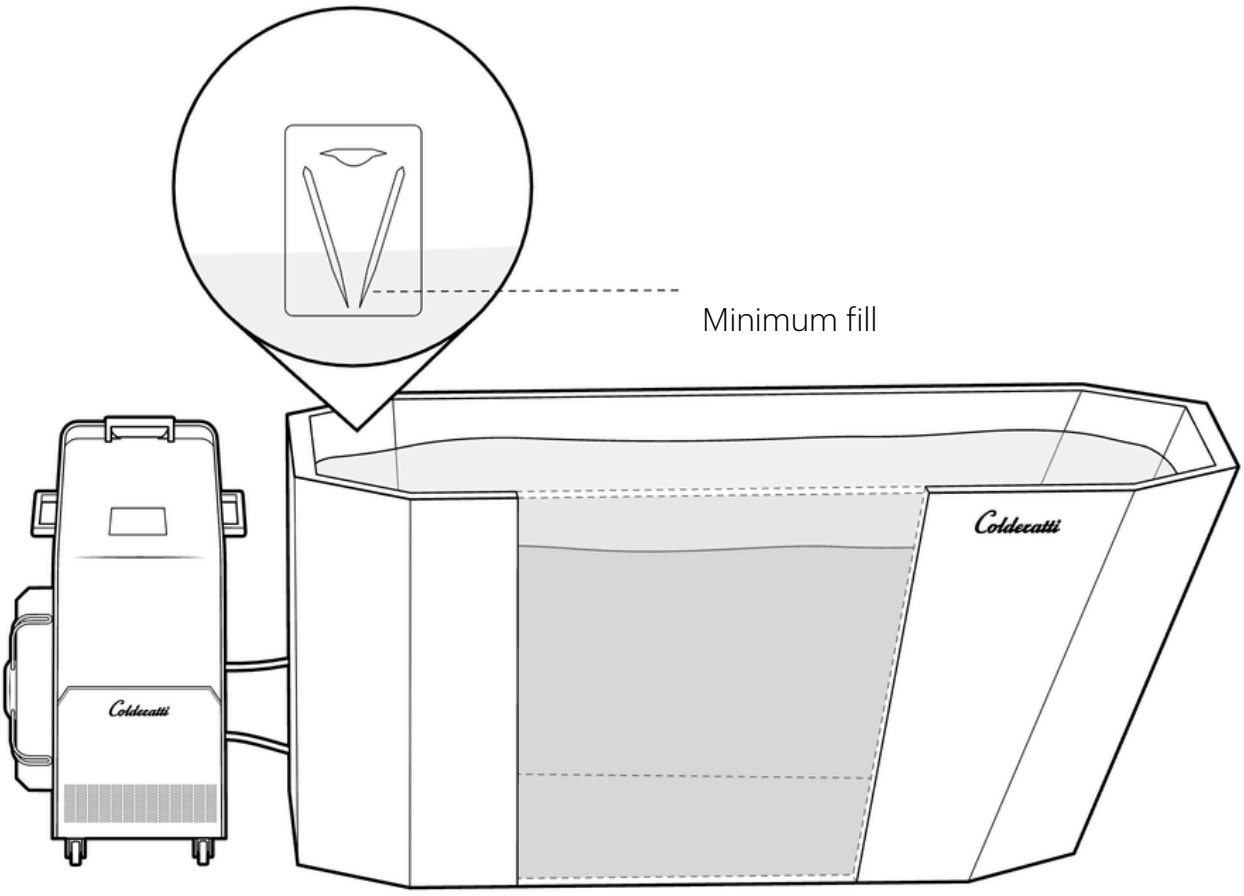
(Optional**)** The drain outlet can be plumbed to a sanitary septic line or routed to a nearby floor drain for full water emptying. Uses a twist ball valve for open/close.

(Optional**)** The fill valve can be connected to a water source for easy and controlled filling of the tub.



3. Fill with Water:

Fill the Vessel Pro until water is midway up the surface skimmer.



4. Before turning on your cold plunge:

Ⓐ The water level must be above minimum fill, midway up the skimmer.

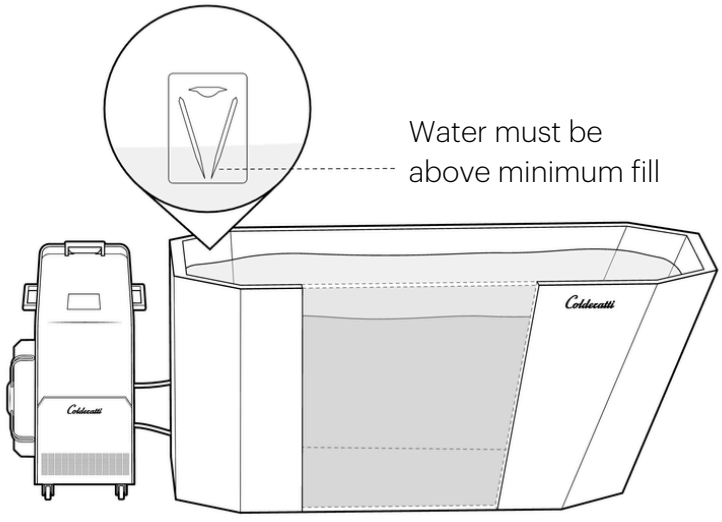
Ⓑ Verify the clear filter canister is securely hand-tightened to the chiller, and the filter is inside, straight and securely seated.

Ⓒ Verify the Water IN, Water OUT, and any other shut-off ball valves are straight, in the ON/OPEN position **(next page).**

Ⓓ Ensure the sediment pre-filter is securely connected **(next page).**

Ⓔ Ensure the rubber o-ring seals are in place inside the 2 water cables and the pre-filter **(next page).**

Ⓕ Ensure the two water lines are properly connected to the tub and chiller, and in the correct orientation **(page 9).**

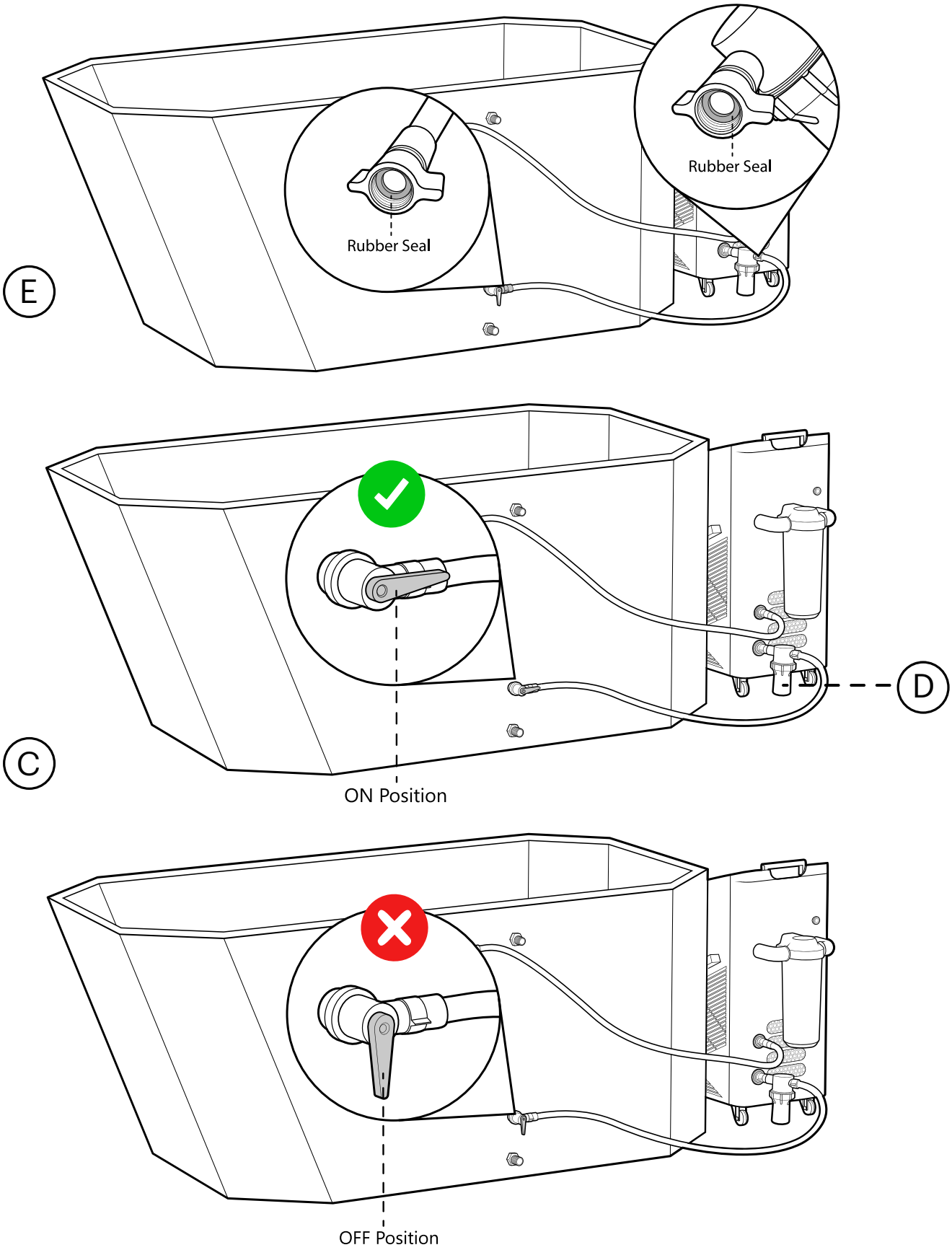


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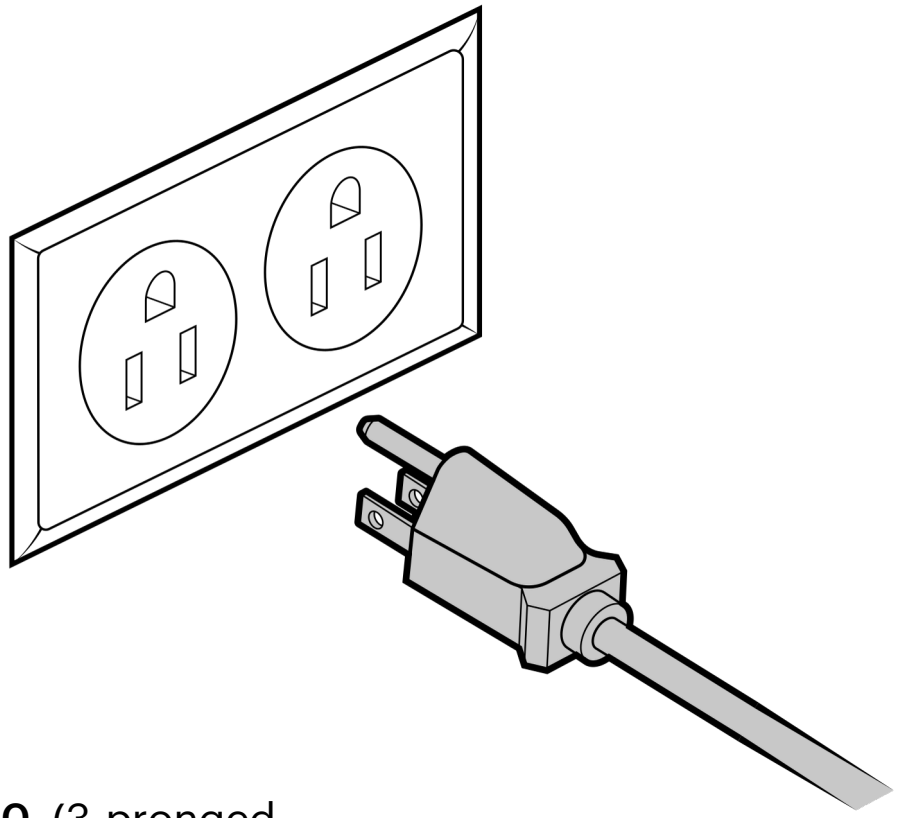
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*Failure to follow these precautions may damage the machine and void warranty.


E
Rubber Seal
Rubber Seal
C
D
ON Position
OFF Position

5. Plug In:

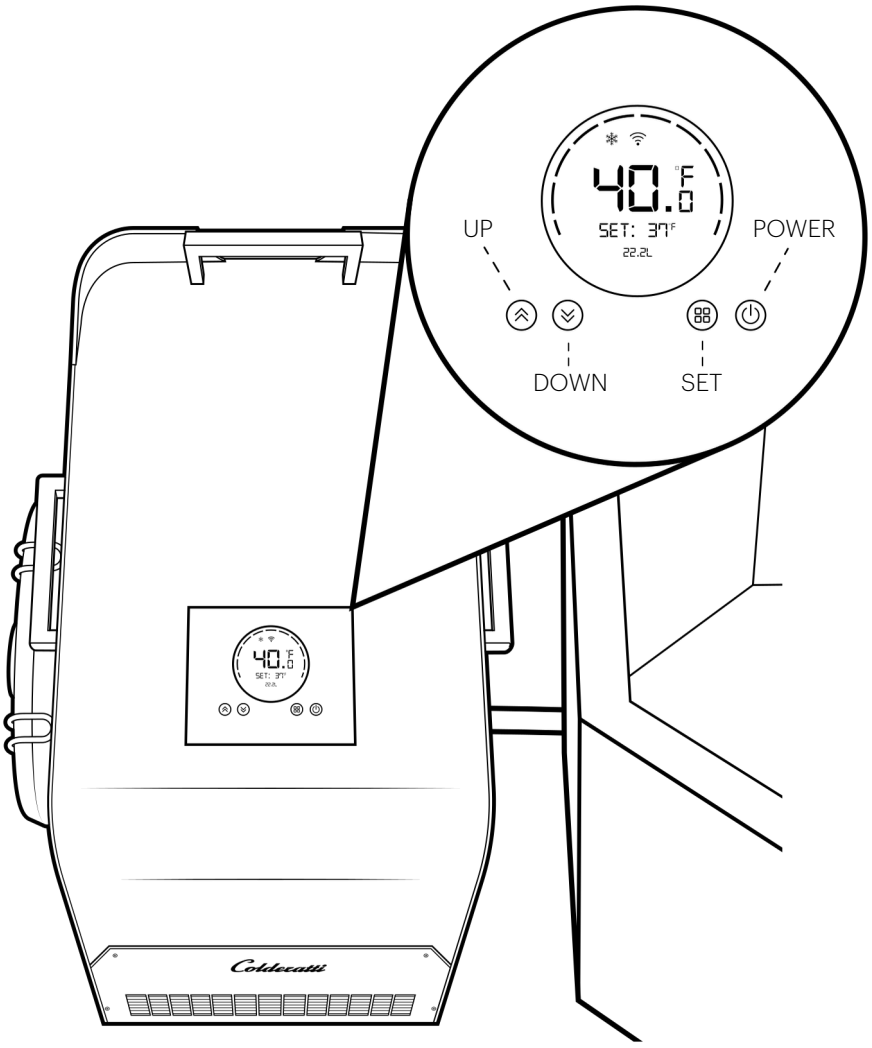
- Before plugging in your Hyperchiller, make sure all items in **Step 4: Before turning on your cold plunge** are fully completed and verified.
- Plug your Hyperchiller into a standard 120V outlet. The outlet must be on a dedicated 20A **(**minimum**)** circuit.
- The machine includes built-in GFCI protection, so an additional external GFCI is not necessary and may cause nuisance tripping.
- Use only a 12-gauge extension cord if needed.



NEMA 5-20, (3-pronged standard outlet)
120V, 20A

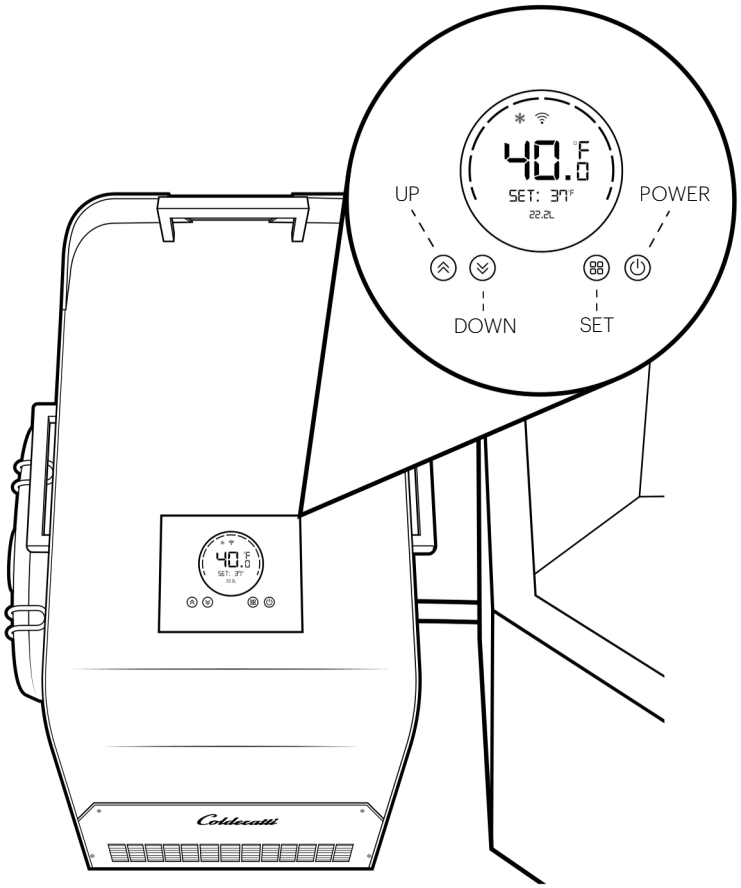
6. Set Temperature:

- Power on the Hyperchiller by pressing the POWER button.
- Press and hold the UP & DOWN buttons at the same time to toggle lock/unlock (a lock icon will show the lock status).
- Press the SET button (the temperature will start flashing on the control panel) and use the UP/DOWN buttons to set temperature.
- Allow system 1-2 hours to reach the target temperature.



7. Pair your Hyperchiller with the app:

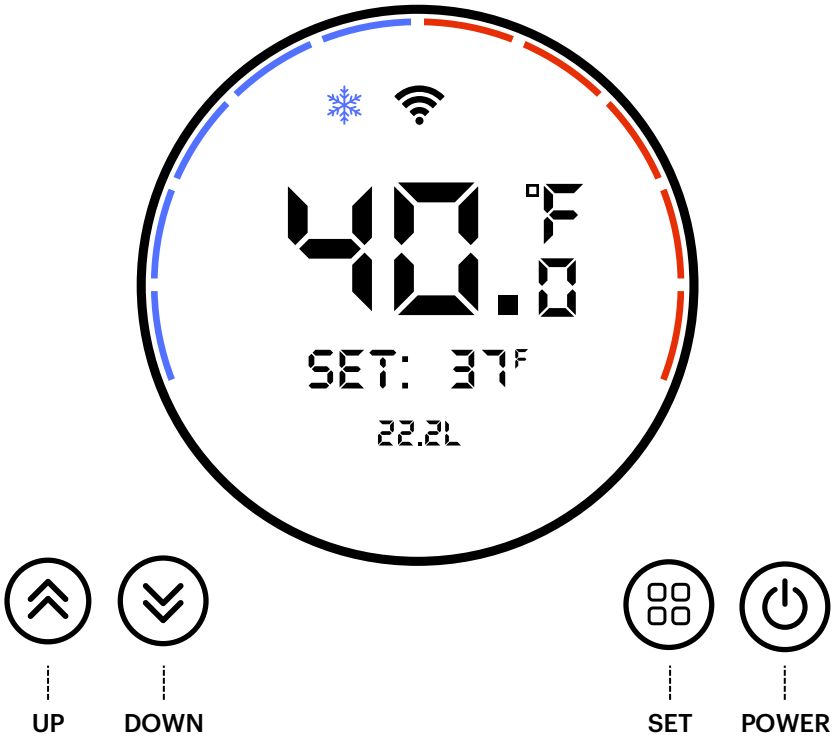
- Download the Smart Life app.
  App Store
  Google Play
- Press and hold the **UP & DOWN** buttons at the same time to toggle lock**/**unlock **(**a lock icon will show the lock status**)**.
- Hold the **SET** button for 7 seconds. Let go. You will hear a beep and see the WiFi icon flash.
- Press "**Add Device**" on the app, and the chiller will auto-connect.



Setup is complete!

Continue reading for instructions for operation, water care, cleaning, filter replacements, and remote chiller placement

Control panel



• Press **POWER** button once to turn on. Press once to turn off.
• Press and hold **SET** button for 7 seconds then release to enter pairing for app connection.
• Press and hold **UP** and **DOWN** buttons to toggle lock/unlock. A lock icon will appear to show lock status. When locked, you cannot change the temperature or power off.
• Press the **UP** and **DOWN** buttons to change temperature.

Water Care & Maintenance:

Everything you need for water care in one package:
6-month maintenance kit (Residential)
6-month maintenance kit (Commercial)

Residential Water Care

If your Vessel Pro lives at home, follow these care instructions to keep water clean, clear, and at peak performance.

Initial Fill-Up	4oz Colderatti water clarifier
Daily Maintenance	1/2oz Colderatti water clarifier
Monthly Maintenance (or as needed)	• Replace water with fresh water • Replace the filter • Rinse the pre-filter
Quarterly Deep Clean[1]	Every 3 Months, deep clean

Commercial Water Care

While commercial settings require more frequent care, you can extend the interval between water replacements to 4–8 weeks by following our protocol and best practices, and by integrating our auto-sanitizer system. This ensures maximum uptime for your facility.

Initial Fill-Up	4oz Colderatti water clarifier
Daily Maintenance	1oz Colderatti water clarifier
Bi-Monthly Maintenance (or as needed)	• Replace water with fresh water • Replace the filter • Rinse the pre-filter
Quarterly Deep Clean[1]	Every 3 Months, deep clean

Hygiene Tip*:* A quick rinse/shower before use removes oils and impurities – preserving water quality, extending time between water replacements, and minimizing overall maintenance.

[1]Deep cleaning is recommended for optimal performance, cleanliness, and longevity of the machine. Instructions on next page.

Deep clean your plunge

We recommend deep cleaning your plunge every 3 months, for optimal performance and longevity of the machine.

1. Drain all water and refill with clean water to 1/3 capacity.
2. Add 4oz (1/2 cup) food-grade citric acid*
3. Turn the Hyperchiller on and set the temp 75°F.
4. Let the water cycle for 15 minutes with the citric acid solution.
5. Turn the Hyperchiller off and drain the tub fully.
6. Rinse the inside basin with warm water and a clean microfiber.
7. Run a final flush: fill with clean water to 1/3 capacity and turn the Hyperchiller on for 5 minutes. Then turn off and drain water fully.
8. Replace the filter with a new filter. Deep clean is finished.

**Citric acid is a natural descaler that breaks down mineral deposits, biofilm, and tarnish from the inside surface of the system—ideal for naturally flushing your system and restoring it to a like-new condition, while leaving the stainless steel more corrosion-resistant and with a visibly cleaner and brighter finish.*

Cleaning requirements

Follow these best practices for regular cleaning and care to keep your Colderatti stainless steel system in peak condition.

Water care: use Colderatti water clarifier regularly and replace filters as required to keep water clean, clear, and free of oils and debris.

Stainless steel:

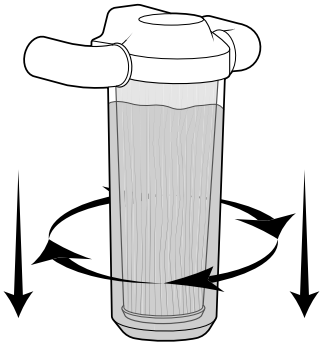
- Clean stainless steel surfaces with a soft cloth and mild degreaser (dish soap).
- For tough mineral spots or stains, wipe stainless steel with warm water and food-grade citric acid, then rinse.
- Always rinse and dry surfaces after cleaning.
- Use only soft microfiber cloths—never abrasive scrubbers.

DO NOT mix citric acid or hydrogen peroxide with other cleaning chemicals.

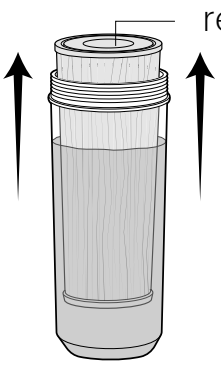
Replacing the filter

Replace the filter once per month for optimal performance and longevity of the machine.

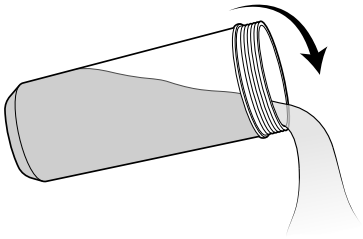
- Unscrew the clear filter canister.
- Remove the old filter, empty the water from the canister, replace with new filter. Screw in.
- The pre-filter (smaller filter located on the chiller INLET) must also be rinsed out with water and a small brush or toothbrush.



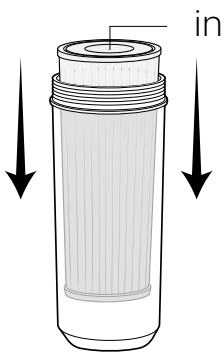
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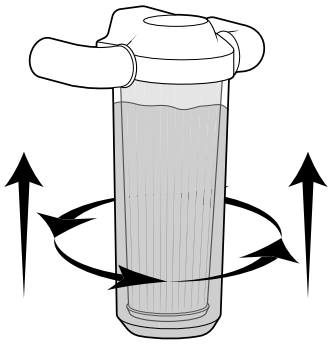
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3



4



5

Water Testing

If you choose to test your water using water test strips, expect each parameter to fall within the ideal ranges below:

1. Free Chlorine or Bromine: 0ppm
2. pH: 7.2–7.8
3. Total Alkalinity: 80–120 ppm
4. Calcium Hardness: 150–250 ppm
5. Total Dissolved Solids (TDS): under 1,500 ppm
6. Cyanuric Acid: 0 ppm
7. Oxidation-Reduction Potential (ORP): 500–750 mV

Note: The parameters above are specifically for oxygen-based, chemical-free sanitation. If you utilize chlorine-based sanitation, these values will differ – most notably, Free Chlorine should typically be maintained between 1–2 ppm.

Expected Results After 2 Weeks of Daily Use:
With proper daily water care, pH, Alkalinity, Hardness, and TDS levels typically fall within 90–95% of ideal ranges. Results may vary based on user hygiene, adherence to water care routines, and the quality of your initial water source.

Remote-Chiller Setup Requirements:

The below requirements are to be used for general information and planning purposes. Any installations with water lines longer than the standard (6ft) require an engineered solution. Please consult with a licensed pool and spa professional, and approve all remote-chiller designs with a Colderatti engineer before installing.

1. Distance Requirements:

- Max vertical lift: 15 ft
- Max run length (vertical + horizontal): 40 ft
- Make sure the chiller is placed within these limits.

2. Plumbing Requirements:

- All plumbed water lines must be 1" diameter minimum and insulated with a 1/2" thick HVAC-grade pipe insulation.
- Each line must terminate with a 1/2" male threaded NPT connection at both end points.
- All directional changes must use long-radius sweep 90° fittings to minimize flow restriction. Avoid sharp 90° elbows.
- For remote chiller installations with water lines longer than 6 ft, an inline water supply is required to prime the INLET line and remove trapped air from the system.

3. Ventilation Requirements:

Chiller must have minimum 24" clearance on fan end.

If chiller is placed in enclosed area, it must have (either):

- 2 passive vents (one vent next to Hyperchiller fan out, one vent opposite, allowing adequate passive airflow) OR
- Inline duct fan (900 CFM+) high, and passive vent low, near chiller.

An open area with adequate air circulation is ideal for chiller installation. A large, climate-controlled space with HVAC airflow typically requires no additional ventilation or fan system, provided the room has a minimum airflow capacity of 900 CFM. Avoid installing the chiller in small, enclosed spaces without sufficient air exchange, as heat buildup can reduce performance and efficiency.

Remote-Chiller Setup:

The below setup instructions are to be used for general information and planning purposes. Any installations with water lines longer than the standard (6ft) require an engineered solution. Please consult with a licensed pool and spa professional, and approve all remote-chiller designs with a Colderatti engineer before installing.

1. Connect Water Lines (IN/OUT):

- If connecting through wall ports, label wall lines as IN/OUT clearly to avoid confusion or mismatching the water lines.
- Hyperchiller INLET → connects to pump suction port on the tub
- Hyperchiller OUTLET → connects to water return port on the tub

2. Final Checks Before Powering On:

- Review STEP 4 (Page 11) for full checklist.

3. Prime the INLET Line:

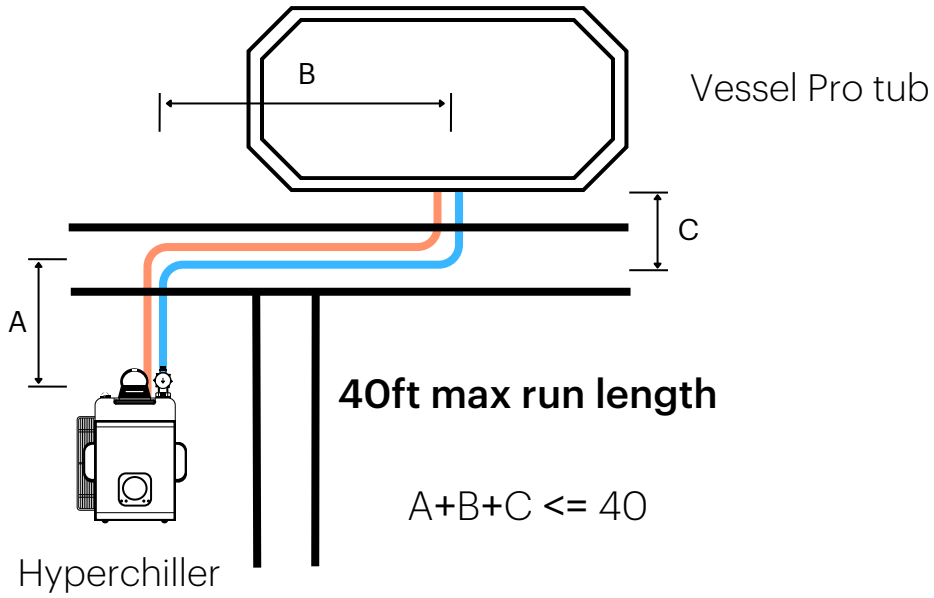
- Open the valve to allow the prime water source to fill the water lines. The priming process typically takes 10–15 seconds. Once primed, the filter chamber will fill with water, indicating that the air is removed and the lines are fully primed.

4. Power on the chiller:

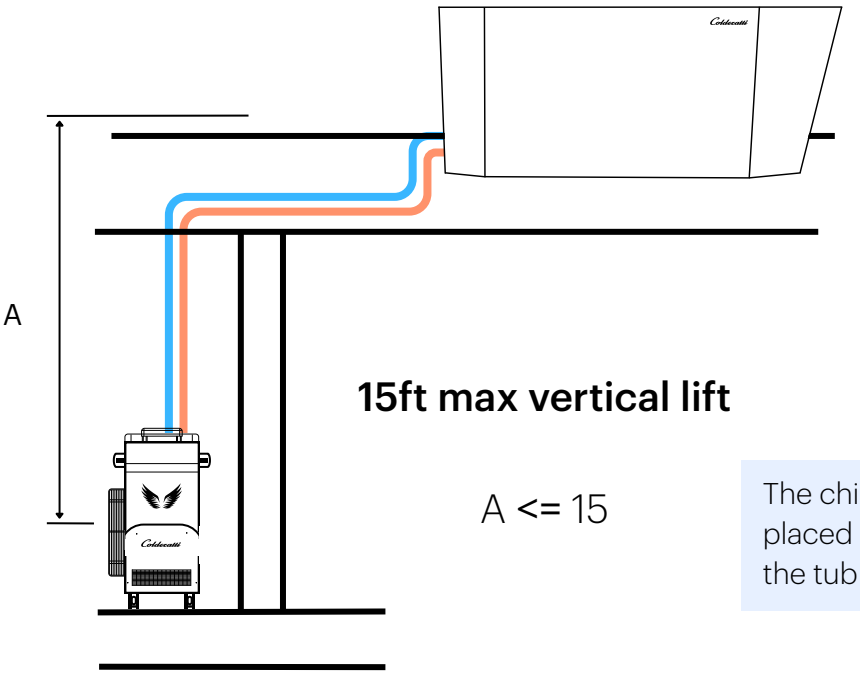
- Once the water lines are primed and the filter chamber is filled with water, power on the chiller by pressing the power button.
- As soon as the chiller pump establishes water circulation (the flowrate on screen should be reading 25-30L/min), immediately turn off the prime water supply.

Remote-Chiller Setup Drawings

Top View

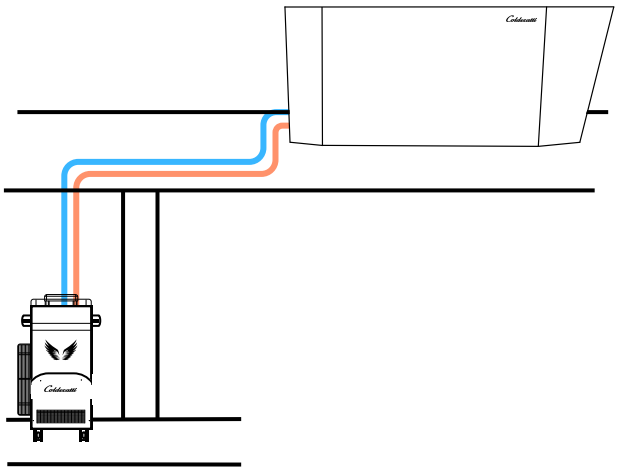


Side View



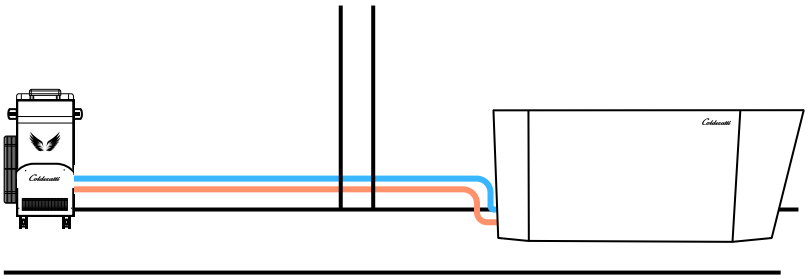
The chiller should always be placed at or below the level of the tub and never above.

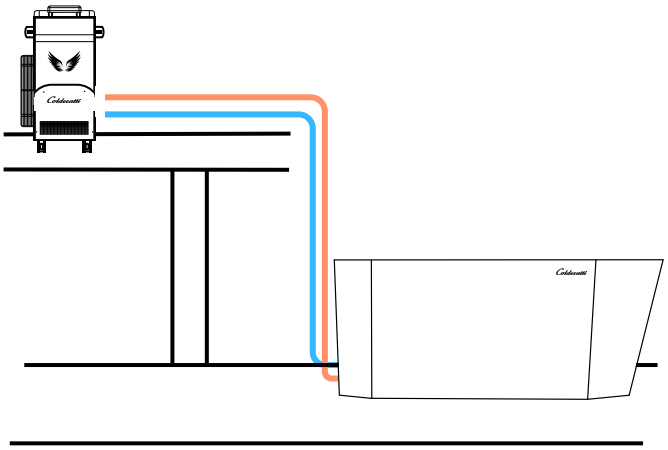
Remote-Chiller Installation Examples



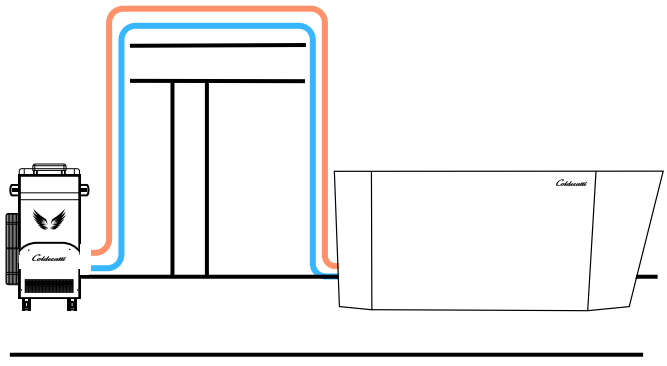
Installation Guidelines:

- 15ft max vertical lift
- 40ft max total run length
- Chiller below water level
- Water lines always below water level





Do not place the chiller above ground level.



Do not install a plumbing path which rises above water level.

Safety Precautions:

⚠ No children or pets – never allow unsupervised access. Secure the cover when not in use.

⚠ No alcohol or drugs – these can drastically increase the risk of unconsciousness, drowning, or hypothermia.

⚠ Know your limits – sudden cold immersion can trigger cold shock or hypothermia. Always use under supervision until you know your body's response.

⚠ Electrical safety – only use a dedicated 20A, 120V circuit with GFCI protection; keep all outlets and devices 5 feet away.

⚠ Consult Your Doctor – especially if pregnant, have heart conditions, blood pressure issues, diabetes, or are taking medication that may cause drowsiness.

⚠ Do not modify electrical components – only qualified technicians should access internal electronics. Tampering can lead to electric shock, fire, or system failure.

⚠ Use with supervision if needed – those with reduced physical, sensory, or mental ability should only use the plunge under supervision.

⚠ Install Properly – the standard package is designed for self-installation in outdoor locations or large, open indoor spaces with adequate airflow and HVAC. The standard configuration includes 6ft water lines connecting the tub directly to the chiller. Any installations that differ from this standard configuration – including water line runs longer than 6ft, or installation in enclosed spaces with limited airflow – requires additional planning and an engineered solution. Consult with a qualified pool and spa professional and obtain approval from Colderatti before proceeding with custom or non-standard installation designs.

⚠ Freezing Conditions – Operating or storing this equipment in temperatures below 32°F (0°C) strictly voids the warranty. While the Hyperchiller is equipped with internal freeze protection as a safety measure; it is not rated for operation or storage in freezing environments. The system must remain powered on at all times to utilize its internal safety sensors; if the unit loses power or is turned off in cold conditions, it must be completely drained of water and moved indoors immediately. Any damage resulting from freezing temperatures – including damage resulting from power failure or outdoor placement – is at the user's own risk and is strictly excluded from warranty coverage.

Service & Troubleshooting:

Issue	Solution
Water leaking at a connection point	• Verify water lines are firmly hand-tightened (only hand-tightening required) • Verify the O-rings within the water lines are intact and properly seated inside the metal connection fittings. • Teflon is not required on connection points with Colderatti insulated water lines due to the included o-rings. Any other connections (such as the tub hydraulic connections to the manifold) must have 7-10 wraps of teflon around each thread.
Water dripping from chiller	In humid environments, or if the chiller is heating the water, condensation can cause water to drip from the chiller condensation line. Place a drip pan underneath the chiller to catch condensation drips if needed.

Error Code	Reason	Solution
CLN	Low Flow Rate	Clean or replace the filter
FL	Flow Issue	**Possible solutions:** • Confirm both water valves are in the ON position (straight). • Confirm seal rings are on the inside of the water hoses. • Reset the Hyperchiller. Power it off and on.

Colderatti