



***PENGUIN
CHILLERS***
WE. KNOW. COLD.

07/2024

Penguin Cold Therapy Chiller Installation

This manual is intended to assist in connecting the Penguin cold therapy chiller with filter kit to any of our Leisurecraft cold plunge tubs.

Please refer to the Penguin chiller owner's manual for operation and safety precautions of the Penguin cold therapy chiller.





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Penguin Cold Therapy Chiller

When first receiving the chiller AND anytime the chiller is moved without keeping the unit level, you **MUST** let the chiller remain upright for at least 2 hours before plugging it in.

Failure to do so will result in chiller damage.



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Chillers work on the principle of moving heat from one spot to another. In the case of a water chiller, it is designed to remove heat from the water and disperse the heat back into the air.

Proper air flow is critical for the chiller to operate correctly. It is recommended to have at least 12" of open space on all sides of the chiller.

Before you begin, please ensure you have the included components:

- A - Two (2) – Female Camlocks
- B - One (1) – In-line Strainer
- C - One (1) – Standalone Filter
- D - Two (2) – ½" Bulkheads (Not required for installation on a Leisurecraft Cold Plunge)
- E - Two (2) – ¾" FPT x ¾" Barbs
- F - Six (6) Hose Clamps
- G - One (1) – In-line Strainer Wrench
- H - One (1) – Filter Wrench
- Two (2) – 6' Pieces of ¾" Tubing (not Pictured)
- One (1) – 3D Printed Filter (Inside Standalone Filter)
- Two (2) – 5" Inlet/Outlet Pipes



Penguin Cold Therapy Chiller Installation

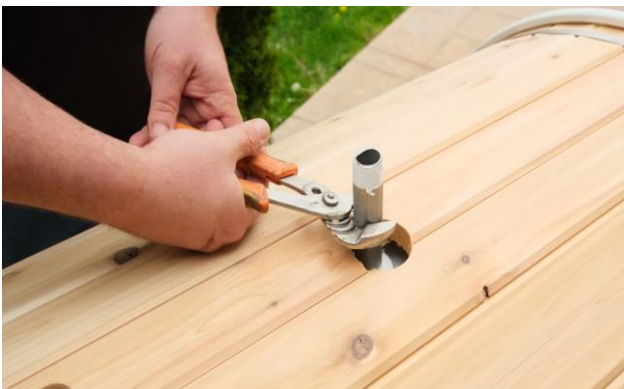
Installing inlet and Outlet Pipes on Cold Plunge Tub



Remove the plugs from the holes in the side of the tub.



Wrap 3 layers of thread tape around the threads on both ends of the 2 long pipes.



Thread one of the long pieces of pipe into the top hole on the side of the tub tightening with a pipe wrench.



Repeat for the remaining long piece of pipe into the lower hole on the tub..

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Setting up Tubing Lines



Cut a 6" piece of tubing from one of the lengths of tubing included.



Insert the barbed end of one of the female cam locks into the 6" tubing line.

Secure with a hose clamp.



Attach the in-line strainer to the other end of the 6" tubing.

Ensure the arrow on the strainer is facing the cam lock and the clear part of the strainer is facing down.

Secure with a hose clamp.



Connect the cam lock of the completed tubing line to the "Inlet" of the chiller.

After securing the cam lock fitting in place, remove the pin from the metal ring and put it through the hole on the cam lock to ensure you have a secure connection.

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Setting up Tubing Lines



Screw one of the 90° elbows onto the bottom pipe of the cold plunge tub ensuring it is tight.



Connect a piece of tubing to the other side of the in-line strainer and secure with a hose clamp.

Cut the tubing to the desired length and attach the other end to the 90° elbow on the bottom of the cold plunge tub.



To connect the chiller outlet line, insert the barbed end of the cam lock fitting into the unused piece of long tubing.

Secure with a hose clamp.



Attach the cam lock to the "outlet" of the chiller.

Lock the cam lock in with the pins to secure the connection.

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Setting up Tubing Lines



Thread the standalone filter onto the top pipe of the cold plunge.

Screw one of the 90° elbows onto the opposite side of the standalone filter.

Secure with a hose clamp.



Cut the tubing to length and attach it to the barbed end of the top 90° elbow.

Secure with a hose clamp.

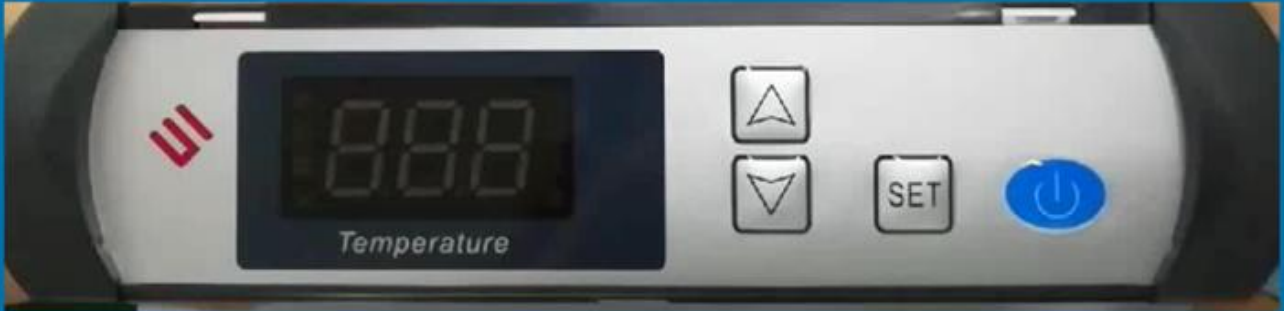
(Depending on location, it is also possible to mount filter elsewhere and attach a piece of hose to go from filter to top pipe of plunge tub.)

Summary of Tubing Setup

- ❖ Tubing goes from the bottom pipe of the cold plunge tub to the in-line strainer, then it goes to the “inlet” of the chiller
 - ❖ Water flows through the chiller, out the “Outlet”
- ❖ From the outlet of the chiller, tubing goes to the “IN” side of the filter.
- ❖ Water flows through the filter and back into the cold plunge tub.

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Controller Setup



Set Button

Enters setting mode.



Power Button



Up Arrow

Scrolls temperature up.

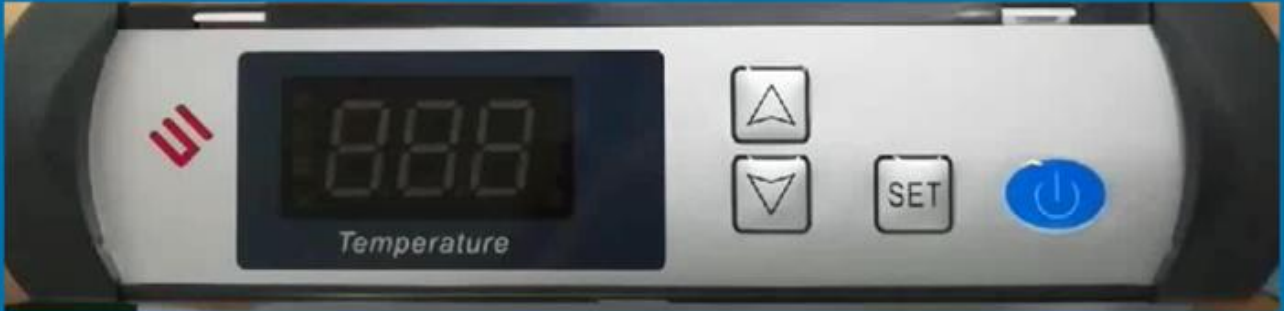


Down Arrow

Scrolls temperature down.

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Controller Setup



Power On/Off

Press power button for 3 seconds “---” will be displayed. The unit is now off.
(The pump will remain on regardless if the controller is on.)

Press power button for 1 second.

The temperature is displayed, and the cooling process will begin once the startup delay has passed.

To power off the entire unit, unplug the chiller.

Setting the Temperature

1. Press SET button, the set temp is displayed and flashes.
2. Press Up/Down arrow on controller to modify & store the temp.
3. Press SET button to exit the adjustment.

LED Lights

When the chiller is cooling, LED light is on.

When set temperature is reached, LED is off.

During the startup delay, LED is flashing.

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Cleaning the Filters

Monitor the flow rate after you hook up the chiller. If you notice the flow rate slowing, clean the filter(s).

The filters are reusable and need to be cleaned weekly.

To clean the filters, Ensure the chiller is unplugged.

1. Unscrew the filter housing using the filter wrench and slide the filter out.
2. Rinse the filter with cold or room temperature water cleaning any dirt &/or debris from the filter. Do not use hot water over 80° F.
3. Once the filters have been cleaned, return the filter and screw the housing back on.

To properly insert the large filter, gently set the filter inside the blue canister (concave side up).

Slide the canister (containing the filter) under the black cap.

Carefully lift the filter and push it into the bottom of the black filter cap.

Screw the blue filter canister back on ensuring is tight by using the filter wrench.

[Click here to see "Cleaning your filter" Video or scan the QR Code](#)



Chiller Storage

The Penguin Cold Therapy Chiller can be used indoors or outdoors above ambient freezing temperatures only. (32°F/0°C).

If the chiller is located outdoors, and you live in an area where it gets to freezing ambient temperatures or below, the chiller will need to be drained and stored until temperatures are back above freezing.

To drain the chiller, you can use a shop-vac to pull out any residual moisture or simply tip it upside down with the inlet and outlet ports facing the ground to drain it off any excess water.



WARRANTY

Dundalk LeisureCraft Inc. warrants our Cold Plunge Tubs against defects in materials and workmanship under normal/residential use for a period of 5 (5) years, as applicable, from the date of receipt of the product by the original end-user consumer.

This warranty does not apply to normal wear and tear and/or natural weather conditions. This warranty does not cover misuse or negligence and the manufacturer and associated retailers are not liable for any injury or damage caused by the product.

This warranty is a parts only warranty and any service or labor costs would not be considered as part of the 5-year warranty.



Penguin Chillers come with a one (1) year. Penguin Chillers warrants the Chiller to be free from defects in materials and workmanship. The warranty term begins on the date of purchase. This limited warranty does not cover any damage, deterioration or malfunction resulting from any alteration, modification, improper or unreasonable use or maintenance, misuse, abuse, accident, neglect, exposure to excess moisture, fire, improper packing and shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature. Penguin Chillers' warranty liability extends only to the replacement cost of the product. Penguin Chillers will not be liable for any consequential, indirect, or incidental damages of any kind, including lost revenues, lost profits, or other losses in connection with the product. Some states do not allow limitation on how long an implied warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Penguin Chillers will, at our discretion, repair or replace the Chiller covered under this warranty. To request warranty service, please contact our technical support via email: support@penguinchillers.com.

Please refer to owner's manual for complete Penguin Warranty.

Purchaser Name: _____ Date: _____

Purchased From: _____