



Cold Therapy Chiller





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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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Features

3/4HP High Efficiency Chiller
7,500 BTU/hr
56 dBA (fairly quiet)
110 – 120 Volts / 450 Watts / 3.9 Amps
17"W x 15"D x 13"H
49 Pounds
Built in Pump
10' power cord with GFCI protection
Rain Proof*

(*disconnect chiller and drain completely when ambient temps are freezing or below to prevent damage to chiller)

1 Year Product Warranty
Proudly made in the USA



Cold Therapy Chiller

Whether you are new to cold therapy or a seasoned pro, you are likely doing it for the benefits that exposure to cold offers rather than the physical workout you'll get from lugging all the ice needed to keep up with it.

Lets face it – keeping up with the amount of ice needed to keep a ice bath cold can get to be quite the burden. Our chiller will keep your ice bath cold effortlessly, this should lead to more consistent and frequent usage. Make the most out of your ice bath by turning it into an iceless bath!

The chiller can reach into the low 40F's, even down into high 30F's with the right conditions. Ambient temps and sun exposure account for the majority of the heat load on a cold therapy tub (your body heat is insignificant compared to the sun). Reducing the external heat load will improve chiller performance. Low to mid 40F's should be possible on a most +/-100 gallons setup even in full sun / less than ideal conditions.

Our cold therapy chillers can be used indoors and outdoors, except in freezing conditions





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Cost to Run (lower than most expect):

At \$0.12/KWh, the monthly cost of operation should be around \$18-\$28/month. The compressor and fan only turn on when cooling is needed, once the water reaches your set point they turn off and only the low wattage pump continues to run.

A common question we get revolves around setting the chiller up on a timer. Ideally you'll want to keep the water cold at all times. There's a few reasons for this –

Cold water keeps bacteria (slimy walls) largely under control by slowing or stopping their growth. This significantly reduces the amount of maintenance needed to keep your water clean for longer periods of time. This means less frequent water changes and that much lower levels of sanitizer being an effective doses (chlorine/hydrogen peroxide/etc).

If you are using it on a regular basis the amount of potential power savings will be fairly insignificant, the heat it would gain in the "off" period still needs to be removed when you turn it back on. So if running is normally cost \$18-\$28/month you might be able to save \$3-\$5/month. However you have to change water and the filter more often so it is unlikely to be a net cost savings.

When you cut power to the chiller you also cut power to the pump. Pumps get the most wear and tear during startup, that's when a pump is most likely to fail as well. Cycling the power to the chiller is just adding unnecessary wear and tear to the pump.

*Please note your setup needs to gravity prime to the pump, the pump is not capable of self priming/suction. Place the chiller within 3' of the drain of your tub, the bottom of the chiller should be at the same or lower height compared to the bottom of your tub – do not elevate the chiller above the tub. An overly long tubing run from the tub drain to the chiller inlet may cause the pump to fail to move enough water.





FAQ's

What is the lowest temperature the Penguin chiller will reach?

This is by far the most common question, and it is by far the hardest to answer. There is no blanket statement that answers this question.

Penguin Chillers' lowest recommended operating temperature is 37° Fahrenheit. Many customers still ask us if their unit can chill lower than 37° F. Our answer would be yes it can however, we strongly recommend not continuously running your water chiller lower than a set point of 37° F. On 5 gallons of water, we tested and reached temperatures down to 36° F. Keep in mind that the temperature your chiller is capable of reaching is completely dependent upon your chillers' setup. Factors such as your goal temperature, the amount of liquid you're cooling and its heat load plus the ambient conditions in which your chiller is being used are all variables that contribute directly to the temperature your unit will be able to achieve.

Is there a tank or reservoir built into the chiller?

Penguin Chillers' line of water chillers DO NOT contain built-in tanks or reservoirs. The internal piping and exchanger holds less than 1/2 gallon of water.

How Loud is the Chiller when in use?

Penguin Chillers operate at a relatively quiet level of 56 dBA . Our general customer feedback is, "the chiller runs much quieter than expected".

Does the Chiller need to be ventilated?

Ventilation is required for proper heat transfer. A chiller cannot properly function if placed in a small enclosed space such as a cabinet or closet. Remember, the chiller is removing heat from the liquid being chilled and disbursing it out into the surrounding air. When the excesses heat can no longer be disbursed out into the air, the chiller is unable to provide any additional cooling. Proper ventilation also allows your chiller to run less, which actually makes it operate more efficiently.





FAQ's

Why has the chiller stalled at a certain temperature?

Usually when this happens, your first thought is that the chiller isn't working correctly. Most of the time that is actually not the case! So first we need to determine if it's actually the chiller or something else that is causing your temperature issues. If your chiller is maintaining its set point and kicking off and on normally then it's most likely not the chiller causing the issue. However, if the chiller is running constantly and still can not get down to your desired temperature, then it could be an issue with your chiller or set up. If this is the case you'll want to contact our Penguin Chillers technical support team via email at support@penguinchillers.com.

Do Penguin Chillers function as heaters too?

Penguin Chillers **DO NOT** offer heating capabilities. Our chillers specialize in quiet efficient cooling because **WE KNOW COLD!**

Can my chiller be used outside?

Penguin Chillers can be used indoors and outdoors, except in freezing conditions.

