

°CoolBot®

How to Build a Walk-in Cooler for Your Brewery



Introduction



As a brewer, you know the importance of temperature. Depending on the type of beer you brew and how you serve it, you may want to achieve temperatures in the 35°F range (for lagering) or you may need something closer to 50°F (for fermentation). For storing kegs or running tap lines to your tasting room, you probably want to maintain temperatures between about 35°F and 42°F. And, if you're doing all of these things, you may even need to switch between higher and lower temperatures at different stages of the process.

The trick is that you need to be able to control the temperature precisely so that you can ensure that every batch you bottle and pint you pull will be perfect.

Reliable cold storage is important. And if you've done much research into the available options, you know that it can also be expensive.

But it doesn't have to be. By using a CoolBot and a standard air conditioner, rather than a traditional compressor-based refrigeration system, you can save thousands of dollars on your upfront cooler purchase and hundreds of dollars every year on electricity costs.

You can also do it yourself.

This guide teaches you everything you need to know to build your own walk-in cooler from scratch using a CoolBot temperature controller and an air conditioner.

Here's what you'll learn:

- What it costs to build your own CoolBot-powered walk-in cooler
- Where on your property to put your cooler
- How to insulate a room
- How to seal your cooler
- How to hook up electricity and lighting
- How to select the right air conditioner
- How to install your air conditioner
- How to install your CoolBot
- Switching from higher to lower temperatures

How much you'll save with a CoolBot-powered walk-in cooler

The CoolBot makes cold storage accessible for brewers of all sizes: homebrewers, nanobreweries, microbreweries, and craft breweries, as well as the bars, pubs and restaurants, that pour their beers.

Depending on the size, a traditional walk-in cooler can cost between \$6,000 and \$10,000. In addition to this upfront cost, you also need to consider the operating costs (energy) and service, which usually requires a specially trained technician.

In contrast, the CoolBot provides a solution that's not only more affordable upfront, but also saves you money over the long run.



Our customers on average spend about \$3,000 in total building their walk-in coolers.

That \$3,000 includes all equipment and insulation. For additional savings, many businesses repurpose lumber and insulation, which allows them to build their cooler for less than \$1,000.

And the savings don't stop there. Since it uses roughly 40% less energy than a traditional cooler, the CoolBot continues to save you money every month. And you'll never need to call a maintenance technician. Our customer support team is available to help you by phone and email to solve any problems that might arise.

The chart below shows the economic advantages of a CoolBot over a traditional system.

	CoolBot + 18K BTU A/C	Traditional Walk-in Cooler Refrigeration System	Savings
Refrigeration Unit Upfront Cost [1]	CoolBot \$329 18K BTU window A/C \$559 Total: \$888	Top-mount self-contained refrigeration unit (1.5 HP) \$3,140	\$2,252 (72%)
Installation [2]	Designed for easy installation by end users	Requires expensive professional installation	\$1,500
Operating Costs [3]	Uses up to 42% less energy compared to a traditional walk-in cooler refrigeration system		Potentially \$100s per year
Service	Customer support team available by phone and mail	At least \$150 to have a refrigeration technician take a look; potentially more expensive to resolve any issues	Potentially \$100s per year

Notes:

1. 18K BTU LG air conditioner available on Store It Cold website
2. Quote in Denver, Colorado for a standard walk-in cooler refrigeration system installation [quote received on 5/17/2016]
3. 41.7% energy savings when comparing a CoolBot-driven system versus a conventional refrigeration system for a simulated cooler. The simulated cooler was 250 square feet, located in Albany, and set at 41 degrees Fahrenheit. See page 13 of the NYSERDA report: [Evaluation of the CoolBot Low-Cost Walk-In Cooler Concept](#)

You need three things to build your walk-in cooler:

- A well-insulated room
- An air conditioner
- A CoolBot

The rest of this guide provides details about these three key components.



Where should you put your walk-in cooler?

If you're building a standing cooler, as opposed to a mobile one, choosing the location is one of the most important decisions you will make. This is especially true if you live in a hot climate.

Just like you're more comfortable in the shade during the middle of summer, your cooler is much happier out of direct sunlight. This is critical for energy savings. Coolers in direct sunlight require approximately 70% more electricity than coolers in the shade.

For the most efficient performance, brewers typically choose to build their coolers in an existing building, like their commercial brewery or a garage. If you do choose to build your cooler outside, be sure to also place it in a protected area:

- Under a tree
- On the north side of a building
- Under an overhang on an existing structure

If you build an overhang for your cooler, be sure to build an openly vented roof that keeps the sun off the insulated ceiling of the cooler.

Flat roofs on a small cooler may still be structurally sound in wind, rain, and snow loads, but they don't protect from sun exposure. Building a standard peaked roof with ventilation over the insulated cooler ceiling will shade the cooler and provide passive ventilation that will keep air circulating over your cooler and help you save money on cooling costs.

**Note: Heat rises, which is why in a house we put twice as much insulation on the roof as the walls. Cold air sinks, so if you keep your cooler roof out of direct sunlight, you can put the same insulation in the roof as you did in the walls. This will save you money in both upfront construction and long-term operating costs.

Insulation

Insulation helps you keep both your cooler temperature and your electricity bill down. Insulation is measured by its **R-value**, which tells you the capacity of the insulation to resist heat. The higher the value, the more effective the insulation.

The industry standard for walk-in coolers is R25. Going up to R30 will save you even more money, especially if you are keeping your cooler at 40°F or below.

Many brewers ferment their beer at 50°F. Achieving this temperature is no problem for the CoolBot, and insulation between R16 and R25 should be sufficient. If you're lagering, which typically requires temperatures in the high-30°F range, we recommend at least R25.

Recommended insulation: Rigid foam

There are several types of insulation you can use in your walk-in cooler. We recommend using rigid foam whenever possible -- polyisocyanurate on the walls and ceiling and extruded polystyrene on the floor.

Polyisocyanurate

Best choice for walls and ceiling

- Grey or yellow
- R-value of ~6.8 per inch (can vary among brands)
- After 5-10 years: R-value of 5.5 per inch (where it stays)
- Comes in 4' x 8' sheets
- Available at Lowe's and Home Depot

Use at least 4 inches. If it has foil backing, be sure it faces the outside. This product can be irritating to skin, so be sure to wear long sleeves when working with it.

Extruded Polystyrene (XPS) Best choice for floor	<ul style="list-style-type: none">● Pink or blue● After 5-10 years: R-value of ~6 per inch (where it stays)● Comes in 4' x 8' sheets● Available at Lowe's and Home Depot
Use at least 4 inches in the walls.	

This guide tells you how to work with our recommended rigid foam insulation. [Visit our website](#) for information about using alternative insulation solutions, including spray-in-place foam, roxul mineral wool, and cellulose.

WARNING: Do not use fiberglass batt insulation!

Even with a vapor barrier, moisture seeps into the fiberglass insulation. This will create a moldy nightmare and also allow cold air to leak out, resulting in higher electricity bills.

Special considerations for lagering

Throughout this guide, we offer specific recommendations for brewers who need to consistently achieve temperatures in the 30s, which is common for lagering. If you need your cooler to get this cold, we suggest you pay extra attention to the following:

1. Insulate all surfaces (ceiling, walls, floor) to at least an R value of 25. In particular, insulating the floor is highly recommended for temperatures below 38°F. It will also help you save around 15% in energy costs. Rigid foam paneling is the best insulation material.
2. Use plenty of caulk and spray foam to seal every gap, crack, and seam to prevent air leakages.
3. Install a well-sealed door gasket.
4. Try to limit door opening to fewer than 4 times per hour.
5. If you're still having a hard time reaching 34°F consistently, add another A/C unit and CoolBot to increase your cooling power. This will also add some redundancy to the system.

How to insulate a room

This section provides tips for insulating and sealing your room.

Select insulation of at least R25

When purchasing insulation, remember that the higher your R-value, the lower your electricity bill. You only purchase insulation once, while electricity is an ongoing expense. Spending a little more money upfront will save you a lot more down the road.

Also keep in mind that the R-value of insulation is additive. So, depending on the insulation you use, you may need multiple layers. For example, you could use two layers of R10 plus one layer of R5 to achieve R25.

Make sure your cooler is airtight

Before you insulate, you'll want to make sure your cooler is airtight. This will allow it to cool down faster and to lower temperatures, while also keep your electricity bill down by preventing the cold air from escaping.

Use several bottles of spray foam and caulk to seal the following:

- Cracks
- Seams between insulation sheets
- Under the door (use a door sweep as well for extra seal)
- Every corner

****Don't skimp on this step if you're lagging at temperatures in the 30s. Use plenty of caulk and spray foam to seal every gap, crack, and seam to prevent air leakages.**

Sealing around the air conditioner

This is a common place for hot air to sneak in. For this area, we recommend using pipe insulation instead of spray foam. This way, if you ever need to pull the A/C unit out, you don't have to carve away the spray foam.

Pipe insulation is available at the hardware store. It's soft and pliable, but still has a "closed cell" structure, so water can't get in and air can't pass through. Look for pipe insulation in 6' strips that you can cut to the size you need before stuffing it into the gap between the wall and the air conditioner.

Attach insulation over the studs, not in between

Tack the rigid foam up on the **outside** of the studs, not in between them. Cutting up your insulation to go in between studs will not only leave gaps and holes, but no matter how careful you are, polyisocyanurate and polyurethane will shrink a bit over time, exposing your cooler even more.

Overlap the seams on multiple layers of insulation

If you're using multiple layers of insulation (e.g., 2" x 2" layers) to achieve your target R-value, stagger the seam locations and overlap the insulation. This will create a more effective barrier compared with having all the seams lined up on top of one another.

Prepare and insulate the floor

Since cold air falls, insulating the floor of your cooler traps the cold air. This keeps your electricity bill lower and reduces the load on your A/C.

For perched floors:

Coolers built on a deck need at least as much (preferably more) insulation in the floor as in the walls. If you build on a deck instead of a slab, you need to insulate the floor to at least R25 (and R30 would be even better).

If you have an untreated wood floor under your cooler, you will need to put in a vapor barrier. Here's a method we've found successful:

1. Put three layers of carpenter plastic between the styrofoam and the top layer of plywood. As an alternative, you can use a single pond liner.
2. Stretch the plastic out into a "bathtub floor" that goes up the walls a couple inches.
3. Screw roof edge about 3" above the floor all the way around the wall like a metal baseboard, and gather the plastic under it.
4. Caulk the entire top of the roof edge so the water dripping off of the walls won't slip between the plastic and the wall, pooling up under the floor.

For concrete slab and dirt floors:

Whether or not it makes sense to insulate a concrete or dirt floor depends on your targeted cooler temperature. On average, adding a floor will increase the efficiency of your cooler by about 15%.

Above 45°F / 7.2°C	Insulating the floor isn't worth the investment.
Down to 38°F / 3.3°C	If you live in a hotter region, you might want to insulate the floor, but typically you can still reach 38°F / 3.3°C without it.
Below 38°F / 3.3°C	Floor insulation is required. Even just 2" of insulation makes a big difference.

If the concrete pad extends beyond the cooler, the pad can absorb radiant heat. In this case, you'll need to insulate the floor.

How to insulate the floor

Whether you're building up on an existing trailer deck, above a basement, or on a slab, you don't need to frame out a floor. Simply follow this two-step process:

1. Place rigid foam directly on the floor.
2. Lay ¾" plywood painted with porch paint (or any exterior paint) directly on top of the rigid foam.

The plywood spreads the load out enough over the rigid foam. Even after 10 years, your insulation will still be holding strong.

In fact, if you were to stud out your floor, you would risk decreasing the effectiveness of the insulation, because the studs can create thermal bridges where the cool air flows out through the less-insulated studs, between small gaps in your insulation.

If you will be wheeling kegs in your cooler, we recommend using a concrete floor or plywood coating over insulated foam to spread the weight load. Be careful if you are using any keg racks with pointed ends – you'll want to put extra plywood or metal underneath to spread the weight.

Insulation for running taps

If you're using a CoolBot in your tap room, be sure to insulate around the tap lines, either using spray foam or foam pipe insulation. This will keep your brews at the right temperature – cold and refreshing, but not too frothy.

Do you need drainage?

For a cooler that will just be used for beer, you shouldn't need to install a drain. There likely won't be enough water accumulating, and putting one in would just compromise the integrity of the cooler. The only thing the drain will really let out is the cold air!

Instead, we recommend you tilt the floor toward the door so that any water that gathers due to condensation or spills can drain out.

It's also important that you site your structure so the water has someplace to go once it leaves the door. If you're building on a trailer or a deck-type floor, this is easy to do. If you're pouring a new slab, build it a little bit above grade and put your formwork a barely noticeable "off-level" toward the door.



Sheathing

Finally, you may want to install sheathing to protect the insulation. The safest option is to put both interior and exterior sheathing on your cooler. However, if you're careful (and don't have employees carrying boxes in and out and banging them on the walls), you should be fine with just the exposed solid styrofoam insulation.

Inner sheathing

An easy and inexpensive option for inner sheathing is oriented strand board (OSB), which is similar to particle board. If you use this material (or untreated plywood), be sure to seal it before installation.

Another great option for inner sheathing is fiberglass reinforced plastic (FRP), which is durable, sanitary, and easy to clean. This type of sheathing is widely used in restaurants and in the food industry.

Outer sheathing

If you built your cooler inside an existing structure, you don't need to sheath it. If it's outside, the sheathing will help protect the insulation from the sun. An affordable way to do this is by splitting sheets of CDX plywood into 1'x8'-foot strips to make your own overlap siding.

How to seal your cooler

Proper sealing is essential for your cooler to function efficiently. This includes sealing joints between the walls, floor, and ceiling. You should also regularly check the gaskets on your door.

For sealing insulation, we recommend using spray foam, like [Great Stuff](#). You can also use weather stripping or a rubber gasket if your door doesn't have a nice tight seal. Other options include caulking, pool toy floaties, and the same soft foam pipe insulation you used to insulate between the air conditioner cabinet and the walls.

The sealing step must be completed before you turn on your cooler for the first time.

****Note:** It's important to take your time sealing the room. Even the smallest hole can have a large impact on your cooler's energy efficiency.

Your cooler door

The door is another essential tool for keeping the cold air in. We recommend you use a pre-hung insulated exterior door without windows. This type of door seals up tight.

Here are a few tips for getting the most out of your door:

- Make sure your door opens to the outside of the cooler. As you build your cooler, ensure that it's slightly above the surrounding ground level so the door can swing freely.
- Glue another layer of 2" rigid foam to the inside of the door, as most doors are only about R18.

- If you plan on hosing down your cooler, remove the bottom metal piece of the pre-hung door so it doesn't create a dam for the water inside your cooler. You'll also have to cut the sides of the door down so the bottom stays flush against the floor.
- You can add a door sweep to help seal out any drafts that may be sneaking in at the bottom of the door. This [M-D Building Products door bottom with drip cap](#) is inexpensive and effective.
- To limit cold air loss when the door opens, use plastic curtains and automatic door closers



Electricity and lighting

Because a cooler can be a moist environment, we recommend using outdoor rated light sockets and outlets.

This is less about the fixture than about the perforations that wires make when they come into the cooler. A vacuum effect can be caused by the warm outside air being sucked in through the back of the outlet box by the cold cooler air. This can result in moisture gathering, which could cause the circuit to trip.

Here's the solution:

1. Take the cover off the outlet.
2. Find where the wire enters the back of the outlet box.
3. If there are any gaps where the wires enter the box, seal them so no air can move through using silicone caulk, clay, or feldspar.
4. Replace the cover.



How to select the right air conditioner



Important: A/Cs must have digital controls to work with the CoolBot.

The CoolBot works with most standard air conditioners. The right one for you depends on three elements:

- A/C size in BTUs
- Unit type - window unit or mini split
- A/C brand

This section of the guide will walk you through these three elements.

A/C sizing

Air conditioner size is measured in BTUs, which is a unit of heat. The tables below show our recommendations for A/C size based on cooler size, depending on the desired temperature.

**Note: These A/C sizing suggestions are based on an airtight cooler with an 8' ceiling, insulated to at least R25 and opened no more than six times per hour.

Lagering - Desired Temperature: 35°F / 2°C	
Cooler Dimensions	A/C Size
4' x 4'	10,000 BTU
6' x 6'	15,000 BTU
6' x 8'	18,000 BTU
8' x 8'	24,000 BTU
8' x 10'	24,000 BTU
8' x 12'	24,000 BTU

Larger coolers may require multiple A/C units and CoolBots. Please call us for more information: 888-871-5723.

Fermenting - Desired Temperature: 50°F / 10°C	
Cooler Dimensions	A/C Size
4' x 4'	5,000 BTU
6' x 6'	5,000 BTU
6' x 8'	5,000 BTU
8' x 8'	7,000 BTU
8' x 10'	8,000 BTU
8' x 12'	10,000 BTU

Larger coolers may require multiple A/C units and CoolBots. Please call us for more information: 888-871-5723.

A/C unit type

Important: For your CoolBot to function, your A/C must have a digital display.

There are several different types of air conditioners. Here's how the different A/Cs work with the CoolBot.

Window A/C - Highly recommended

The window unit is our preferred type of A/C because it's durable and efficient. Whether you're building a standing cooler on your property or a mobile cooler to take to market, a window unit will deliver the best performance.

Readily available in the United States, window units are also affordable and will work even if you're installing the A/C in an 11" thick wall.

Mini-split A/C - Recommended

If you lack the space for a window unit, or live in a country where window A/Cs are hard to find or expensive, a mini-split will work in a pinch. In the United States, mini-splits can cost twice as much as a window unit, but they're also more efficient and can confer higher energy savings.

Through-the-wall A/C - Recommended with reservations

Through-the-wall units tend to be twice the price of window A/Cs. They also seem to have (slightly) more electrical problems -- not serious or unworkable problems, just unnecessary annoyances. If you already have a through-wall unit, don't hesitate to use it. But if you're purchasing a new A/C, you'd be better off with a window unit or a mini-split.

Portable A/C - Not recommended

Portable A/C units bring too much warm air to the cooler, and they can only get down to 50°F / 10°C. They're also more expensive and consume more electricity than our recommended units.

A/C brand

We, and our customers, have tested the CoolBot with many different brands of air conditioners. Here are our assessments of the most common brands of A/Cs.

LG - Highly recommended

LG is our favorite brand because it's easy to install and provides consistent performance. Thousands of our customers use LG air conditioners. Some of them are still running strong from 2006!

You can buy our preferred LG A/C units via the links below:

- [LG 6,000 BTU 115 Volt Window Air Conditioner](#)
- [LG 8,000 BTU 115 Volt Window Air Conditioner](#)
- [LG 10,000 BTU 115 Volt Window Air Conditioner](#)
- [LG 12,000 BTU 115 Volt Window Air Conditioner](#)
- [LG 15,000 BTU 115 Volt Window Air Conditioner](#)
- [LG 18,000 BTU 230 Volt Window Air Conditioner](#)
- [LG 24,500 BTU 230 Volt Window Air Conditioner](#)

Danby - Recommended

Danby (manufactured by Whirlpool) offers great air conditioners. Any Danby model made after 2011 will work with the CoolBot, as long as it has a digital display. Avoid pre-2011 models due to electrical problems.

Haier - Recommended

Many of our customers have had success with Haier units. They can also be less expensive than LG or Danby. One thing to note is that in 2010, Haier added wording to their instructions saying that the units don't work if outside temperatures fall below 60°F. In our experience, this isn't true -- these units work great even through Canadian winters. We do recommend you avoid models beginning with HWE.

Frigidaire - Recommended

We've had great experiences with most 2015 and 2016 Frigidaire models, except the 12,000 BTU units. If you use Frigidaire, avoid pre-2015 models as well as 12,000 BTU models, and be sure to select one with automatic restart.

Most Frigidaire units above 12,000 BTU have a secondary sensor which needs to be located before using your CoolBot. [Click here](#) to watch a short video on how to locate that sensor.

IMPORTANT NOTE! The Frigidaire has a minimum run time of 5 minutes. In a well-insulated cooler, or a cooler with an up-sized A/C, this can cause the cooler to go beyond its set temperature, which may result in the A/C freezing up. So, if you decide to use a Frigidaire A/C, stick to the recommended A/C size.

General Electric - Recommended (certain models only)

GE units are widely available and work well in winter, but only some are compatible with the CoolBot. Some models have a second sensor that requires extra steps during installation. Note that since 2013, GE units restart automatically after a power failure.

CoolBot-compatible GE Models	GE Models to Avoid
<ul style="list-style-type: none">● 12,000 BTU<ul style="list-style-type: none">○ AEL12AS○ AEM12AS○ AEZ12AS● 18,000 BTU<ul style="list-style-type: none">○ AEE18DT○ AEW18DS● 24,000 BTU:<ul style="list-style-type: none">○ AEE24DT○ AEM25DP○ AEW24DS○ AEH24DT○ AEM24DQ	<ul style="list-style-type: none">● Pre-2010 models● Difficult sensors to install<ul style="list-style-type: none">○ AEZ12AT○ AEM10AT○ AEL24DS○ AHH10AS○ AEL24DQ○ AEH12AT○ All AHL##AS○ All AEL##DV○ All AEM##DT● Too small<ul style="list-style-type: none">○ AEW12AS○ AEL12AR● AEL18DQ

Don't see your air conditioner on this list? Visit the [A/C Selection Guide](#) on our website for notes about many other brands.

How to install your air conditioner

Follow these three basic steps to install your air conditioner:

1. Cut an appropriate-sized hole in the wall of your walk-in cooler.
2. Put the A/C unit into the hole.
3. Use some type of insulation so that you can easily remove the A/C instead of having to carve it out in case you switch units in the future. (See the Insulation section of this guide for more information.)

A/C and CoolBot placement

Here are a few tips for where to place your A/C and CoolBot in your cooler.

Mount it at eye level

The A/C will perform at its best when it's installed so that the bottom of the unit is at eye level. Cold air sinks, so the higher the A/C the better. This also makes maintenance a lot easier.

Make sure the A/C blows down the length of the cooler

If your space is rectangular, then the A/C should be mounted on one of the shorter walls so that it blows down the length of the room. For example, in a 5' x 10' room, mount the A/C on one of the 5' walls.

Mount the CoolBot and the A/C side by side

The CoolBot should be mounted inside the cooler next to the A/C unit. For troubleshooting purposes, mount them right next to each other.

Install the A/C at a slight tilt

Install your A/C so that the back of the unit (outside the cooler) is about an inch lower than the front of the unit (inside the cooler). This is so the condensation that the A/C pulls out of the air can drip out the back rather than freezing inside the unit.

Most air conditioners will keep some water at the back of the pan to help cool the compressor and extend its life. The tilt is important so that the water doesn't get too far forward, where it can freeze.

**Note: Air conditioners must be level left-to-right because they're designed with a trough for water inside.

Install the electrical outlet box to the side of the A/C, not under it

This will help you avoid having condensation drip onto the box and cause problems down the line.

Allow your A/C to breathe

Air conditioners need at least 2' of clearance overhead on the back side to vent properly. If there's not enough room, your unit will overheat and fail prematurely. Check the specifications of your particular A/C to determine the exact setback required for your model.



How to install your CoolBot

After installing the air conditioner, your final step is to install the CoolBot.

Anyone can install a CoolBot in just a few minutes! You will receive a detailed [Installation Manual](#) with your CoolBot, and you can [visit our website](#) to watch a short video on how to do it.

Here are step-by-step instructions for installing a CoolBot with an LG window A/C (for other A/C brands, please refer to our [detailed instructions](#)):

1. Locate the three labeled wires coming out of the CoolBot:
 - **The wire labeled “Room” measures the temperature of the room.** Let it hang free, but make sure it’s not making contact with any metal and is not in the direct pathway of the cold air coming from the A/C.
 - **Place the wire labeled “FIN Sensor” into the front cooling fins of the A/C unit.** Gently place the sensor as low as possible, but ABOVE the first horizontal cooling tube. Use a pen or pencil to widen a space 1-2” up from the bottom and put the fin sensor 1/3” in so that it’s not touching the coolant pipes behind them. It should stay there on its own, without tape or screws. You may need to gently pinch the fins closed around the sensor, but be careful not to damage the sensor.
 - **Attach the wire labeled “Heater” to the A/C’s temperature sensor.** The temperature sensor comes out of the A/C. On a new unit, the temperature sensor will be mounted on small plastic brackets in front of the fins. Wrap the CoolBot **Heater** wire up with the temperature sensor using a small 1/2” x 1” piece of aluminum foil (included) to ensure a good thermal connection. Allow this foil pack to hang freely away from any metal and out of the direct pathway of cold air.
2. Plug the CoolBot into a standard outlet. The CoolBot uses no more electricity than a cell-phone charger, so no special electrical connections are needed.
3. Program your CoolBot. The CoolBot comes pre-programmed to cool your room down to 42°F (5.6°C). However, you can set it to whatever temperature you want. [Click here](#) to watch a video on how to program your CoolBot.

**If your A/C has a secondary sensor or a mini-split A/C, [see our website](#) for installation instructions.

Switching from higher to lower temperatures

We've talked about how to achieve the appropriate temperature for either fermenting or lagering. But what if you need to do both, switching between higher (60°F) and lower temperatures (35°F)?

Using the tables presented in the A/C sizing section, you'll need to ensure that your air conditioner is large enough to achieve the lowest temperature you require. However, once you get there, it becomes difficult to increase the temperature in the cooler to the desired higher temperature.

For these cases, we recommend a pass-through thermostat. You can plug the A/C through the pass-through thermostat, so that as soon as the room hits the set temperature on the pass-through thermostat, the power to the A/C shuts off. Then you can leave the CoolBot plugged in as usual.

If you opt for this setup, you must purchase an A/C that can automatically restart after a power failure (some automatically reset to 70°F). We can help you with any issues on this – just give us a call at 888-871-5723 or email us at info@storeitcold.com



Ready to build a walk-in cooler for your brewery?

Buy a CoolBot

