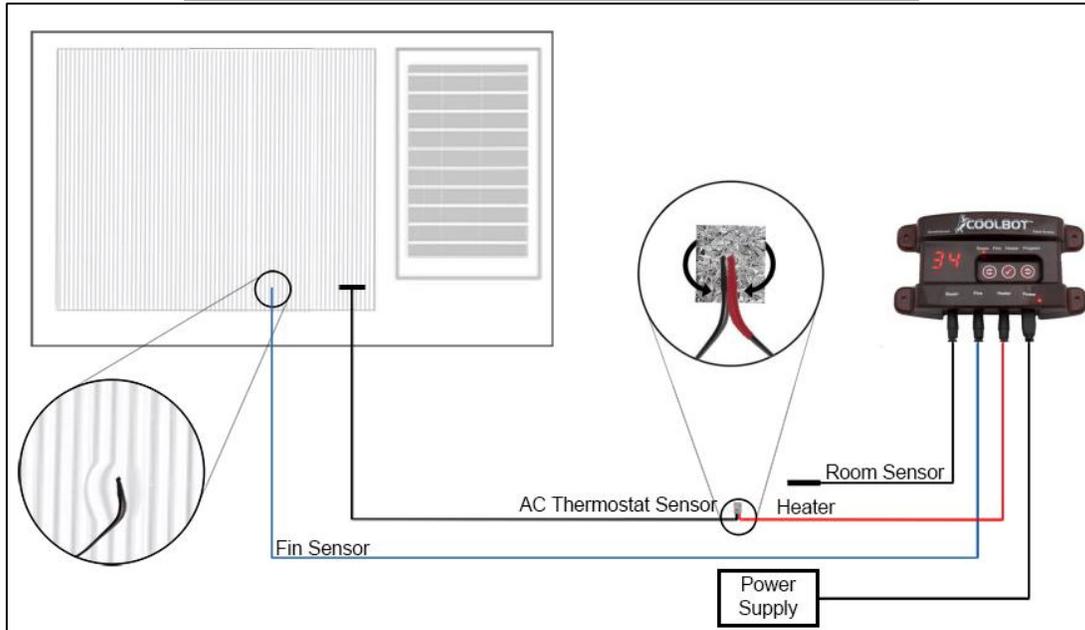


DISCLAIMER: By using the CoolBot, You (the "User") acknowledge there are inherent hazards in getting an air-conditioner ("A/C") to do something it was not originally designed to do, and that these inherent hazards cannot be ameliorated, mitigated or obviated while still maintaining the essential functionality of the CoolBot. User accepts all responsibility in the use of and monitoring of the CoolBot and A/C. User assumes all risk of loss of property or product due to improper functioning of the CoolBot (or A/C). User assumes all risk of injury and warrants that he will defend, indemnify and hold the seller harmless for any direct or consequential harm or damage that may result from the use of this product. **Users that don't accept this responsibility must return the CoolBot for a FULL REFUND.**

LIMITED WARRANTY: CoolBots are warranted against defects for 1 year not including damage due to misuse or accidents.

HAPPY CUSTOMER GUARANTEE: Return the CoolBot within 45 days if you are not fully satisfied with your CoolBot for a full refund (minus shipping). Credit only given if you email us at support@storeitcold.com or call 888-871-5723 *before* shipping.

Quick Start Installation Guide for CoolBot



- Plug the wires into the labelled ports on the bottom of the CoolBot.** The Heater wire is the one with the RED tip. The 2 sensor wires are interchangeable. The one plugged into the Fins port becomes the Fin Sensor. The one plugged into the Room port becomes the Room Sensor. Plug them in and out a couple times. Sometimes they don't "seat" all the way in the first time.
- A/C and CoolBot Positioning:** Since cold sinks, install the A/C unit high up in your cooler (bottom of the A/C >5 feet/1.5 meters). If you have a rectangular room, it's important the A/C blows the *long* way (i.e. installed on the shorter wall). Follow your A/C unit installation instructions. The A/C unit should be tipped a little **backwards**. Some bigger A/C units have shipping screws so the air conditioner can't slide out of its metal cabinet. Removing them before installation makes annual cleanings easier. Hang the CoolBot on the control panel side of the A/C with the bottom in-line with the bottom of the A/C to make it easier to connect the wires to the A/C.
- Remove the Air-Filters from the front fins of the A/C unit.** The filters drastically reduce cooling power, so take them off. Instead, clean your fins 1-3 times a month, or when they get dirty (see Troubleshooting). We recommend removing the plastic grill as well if you can.
Note: Some A/C units have a postage-stamp size "fresh air vent" located where air blows out. If applicable, ensure it's closed.
- Find and Free your A/C's Temperature Sensor.** It's the *only thing* attached to the front fins/grill of your air conditioner. Remove both clip and sensor from the fins. Discard the clip.
Note: A small number of A/C units use a metal temperature sensor and have no digital display. *In that case CoolBot cannot function.* Buy another A/C unit.
- Connect the red-tipped CoolBot HEATER to the Air Conditioner's Temperature Sensor.** Use the short (2 inch square) piece of foil to keep both together snugly, lying right next to each other like 2 fingers pointing the same direction within the foil [see image]. Make sure they dangle away from the fins & flow of the air and hang free, not touching anything cold or metal. (You can put a wire tie around the 2 wires (1 inch before the foil) to keep the wires from getting pulled apart.)

6. **Insert CoolBot FIN Sensor.** Take the wire coming from the port labelled “FINS” and stick just 0.3 inches (0.7 cm) of the TIP of that sensor into the front metal fins of the air conditioner, about 1” from the bottom and near the center (horizontally). It must not touch a coolant pipe directly. You want to be between the bottom 2 horizontal cooling pipes. You must use a screwdriver / pen / pencil to *open the fins up first. If you just force the sensor in, you'll damage it.* Pinch the fins lightly around the sensor so it doesn't fall out.
7. **Plug in the CoolBot.** Set your goal temperature - instructions are on the last page. Default is 42°F (5.5°C).
8. **Turn your A/C unit on.** Set the temp on your A/C unit as low as it can go. (60-65°F) and make sure your A/C unit is set at the *highest fan speed* and in “COOL” mode.
9. **If your A/C Has a Secondary Sensor, Remove It.** This only applies to some A/C brands, including most GE, Kenmore, Frigidaire Comfortaire, Danby and all “mini-split-type” air conditioners. These units have a hidden second sensor you need to remove and let “hang free.”
 - **Unplug your air conditioner.** Look for one heavy electronic wire often on the same side of the A/C as the control panel. It will plug into a little cup soldered onto one of the coolant tubes. Either grab it with your fingers to unplug it or use a tool that is not sharp. Don't cut the sensor! It is OK to cut the plastic tie downs to free the sensor. For rooms above 36°F, just let that sensor hang free outside the body of the A/C unit so it doesn't touch anything metal. Below 36°F, use just 1-2 layers of electrical tape to attach the end of the secondary sensor to the OUTSIDE of the aluminum foil combination (from #5). Check out our website for videos on removing secondary sensors.

That's it - plug it in and give it a few hours to cool down!

Troubleshooting

The following is a brief guide to troubleshooting common issues. Please visit the Tech Support section of our website for additional information, pictures and videos. If you're still having trouble, please reach out to us at support@storeitcold.com, or 1-888-871-5723 and we'll be glad to help.

First, check the obvious things:

1. Your A/C has a digital display (or remote) and is sized correctly for the room (see Recommendations at www.storeitcold.com under A/C Selection)
2. Your room is insulated to at least an R-25 Value (approximately 4” of rigid foam insulation); if you have a trailer or you're above a basement/crawlspace then you MUST insulate the floor
3. Gaps and holes are all sealed with caulk or spray foam. With the lights off in the cooler you should not see any light shining in from outside. (Except from through the air conditioner. That's okay, do NOT spray foam inside your air conditioner!)

PROBLEM: MY ROOM ISN'T GETTING COLD ENOUGH

1. **Give it enough time.** Well insulated rooms with the right size A/C drop below 50°F within 1 hour; but if you have a lot of product in your cooler (coming in from field temperatures) or a concrete floor, it could take longer to cool down the first time. Let the CoolBot run overnight.
2. **If the cooler is stuck around 50°F/10°C,** look for a secondary sensor on your A/C (See Installation Step #9)
3. Make sure the foiled combination where the heater is attached to the A/C's temperature sensor (Installation Step #5) is (A) tight enough, (B) aligned correctly and (C) NOT touching something cold or in the stream of cold air.
4. **Make sure the CoolBot Fin Sensor isn't touching a cooling pipe.** If it is, you will get a false cold reading and your A/C will cycle off too soon. Pull it out or shift it a bit to be sure it's not touching a pipe. *Try pulling it out completely for 1 hour to see if that works.* If it does you were probably touching a pipe. Replace it more carefully.
5. If you've been running fine for a few weeks and now it's not getting cold enough, (A) unplug and replug the A/C unit and (B) check out the point about “Dirty fins” below. The fins MUST be cleaned every week or two!
6. Try wrapping just 1-2 layers of tape right over the aluminum foil holding the air conditioner temperature sensor and CoolBot heating element together. Don't wrap with more than 2 layers of tape.
7. After you've checked the above try **lowering the FIN setting** to 0 or even -1. (See Cheat Sheet for CoolBot Controls)
8. Check the HEATER on the CoolBot. Pull the heater out of the aluminum foil. Hold the red tip in your fingers. Unplug POWER to the CoolBot, then plug it back in. In ~5 seconds the heater light will come on SOLID for 20 seconds. It should get Warm-Hot in that time. If not, unplug/plug the heater in a couple times and repeat the test. If it STILL doesn't get warm, call or email us! (**Note: In normal operation, the heater light just blinks and you can't feel the warmth.**)

PROBLEM: A Solid Block of Ice keeps forming on my A/C unit!

Ice must be melted completely before trying these steps. It melts faster in FAN ONLY mode than turned off.

1. Make sure the A/C is in cool mode, not energy saver and the fan is on HIGH. The back of the A/C should be a little lower than the front (inside) so condensation can drain out the back.
2. Make sure the tip of the FIN/FROST SENSOR is inserted INTO THE FINS of the air conditioner 1/3rd inch. Not "sitting next to the fins" or "stuck in the clip on the fins" and not too DEEP into the fins either!
3. After the ice melts... watch your A/C unit as it is cooling. Where does frost FIRST start to form? Reposition the frost sensor so it is stuck in near where you see the white frost FIRST forming. While it's usually in the bottom center, some A/C units are different, so you might have to reposition the sensor to that area.
4. After trying steps 1-3, try *increasing* the FIN setting by 1 or 2 points. If that doesn't work, increase the HEATER DELAY setting by 1 point (see "Cheat Sheet" for instructions). Keeping stepping up, Fins-then-Heater, until problem is solved. [Call or email if you get to Fins=4 *and* Heater Delay=d4 and you are still icing up.]
5. *The most common reason for ice ups is forgetting to clean your fins within the first month!* Make sure you've cleaned the front fins. (See "Dirty Fins" below.)

ERROR CODES

"ER" flashes in the display if there's a problem with a sensor. The light behind the problem sensor also blinks rapidly. For example: if there is a light behind the "FINS" blinking quickly you know that the Fin Sensor is having trouble. It can happen temporarily if it gets covered in ice for a while. It should fix itself, but be sure to clean the fins well with a fine bristled wet brush. If the problem persists adjust the FIN setting up 1 point.

* If you do get an error with no ice, unplug and replug the sensor 2-3 times, and wait 20 seconds. If it doesn't fix itself, DON'T WORRY! CoolBot can run perfectly fine with 1 bad sensor in a "safety mode". Go to support.storeitcold.com to learn how to enable the safety mode and get a replacement sensor.

HEATER LIGHT BLINKING: Most of the time the lower heater light will blink slowly. This isn't an error code, it's supposed to blink to show the heater is pulsing.

PROBLEM: Dirty Fins - very common! Dirty front fins drastically reduce cooling power and waste electricity. Clean 1-4 times a month. It takes seconds to do (faster than cleaning filters!) Run your finger down the fins, *if you see lint buildup, you waited way too long*. Dust/lint first builds up in *between* the fins where you can't see it. Use a plastic brush with bristles long enough to go all the way through the fins. A dish scrub brush works great. Even a quick dry wipe down is helpful. Plain water is great. If you use dish soap, use it super diluted, and rarely. It's *critical* to rinse the fins off very well because *any* soap residue attracts more dirt! A/C supply stores also sell "foaming fin cleaner." If your fins were knocked/squished the cooling power will be decreased - use a knife or fin comb to straighten them. (Note: Back fins can generally go a year between cleanings, but make sure no leaves are blocking the sucking vent holes.)

PROBLEM: My A/C Unit never turns off: Actually it does; the *fan* stays on, but the compressor turns on/off. The fan is quite cheap to run & keeps the cold air circulating in the room. (You can run the A/C in "Energy Saver" mode so the A/C fan cycles off, but your room will cool slower and might not get quite as cold. You must change the Heater Delay setting to "d3" if running in Energy Saver.)

PROBLEM: 1" band of ice forming at bottom of fins. Probably the air conditioner is tilted a LITTLE into the room - it should be tilted back a bit and has to be HORIZONTALLY level. Tilt it correctly. If it's dirty, you can flush it out with water (carefully keeping electronics dry) or use compressed air to clean. Ice still there? Increase either the Fin setting *or* the Heater Delay setting by 1 point can help. Some users do ignore a thin bottom ice-band (it doesn't usually reduce cooling power by a noticeable amount).

PROBLEM: Unit stops working when it gets cold outside [The "Winter Problem"]. You'd think it should work better when outside temperatures gets cold, but not always! This happens with commercial walk-in compressors that aren't winterized, too. It's a physics problem dependent on the design of the A/C unit. As temperatures drop the unit can't circulate coolant fluid properly and a safety is tripped. To reset some units, UNPLUG-and-REPLUG your A/C unit when it warms up.

Frigidaire suffers horribly from this problem, even below 45°F outside! Most Danby, LG and Haier units have no trouble down to 32°F and most mini-split A/C units run down to 5°F with no trouble (at that point you'll be needing heat!).

Tip: If you have a Frigidaire (or similar brand) and need to run in the winter *try keeping the back of the A/C unit in a warmer area*. Some hunters in Canada mount the A/C units with the back end INSIDE their garages. That works great.

PROBLEM: Room getting colder than I set it. Turn A/C to "Energy Saver" mode OR turn A/C fan down and heater delay to d3+. This can happen in small rooms with big A/C's OR, temporarily, in *empty* rooms. Once the room is filled, this will stop happening. Flower folks: adding 5 gal buckets of water helps.

PROBLEM: Dirty Compressor. Once a year, slide out the A/C unit and thoroughly clean out anything that builds up, otherwise the compressor will overheat and prematurely shut down (and your room won't be as cold), causing your A/C unit to die early.

PROBLEM: In the winter, you can hear the fan hitting ice in the back. If your A/C unit doesn't have back drainage holes (many don't now, the fan just splashes and evaporates the water back there) then you need to drill some holes in the bottom of the A/C unit so the water can drain out or you'll crack the fan.

Improving Performance and Saving Energy with CoolBot

Temperature Setting: The jump in electricity use to set your cooler at 35°F instead of 40°F is more than TWICE the extra electricity needed to get from 45°F to 40°F. Most flowers and veggies keep fine at 40°-41°F/5°C, do you really need to be running at 36°F/2°C? Restaurant coolers are fine at 38°F (rather than 35°F).

Adding an insulated floor pays for itself quickly, even in cooler climates! Below 40°F, cold just sinks down forever into the permanently warmer soil. Literally a money sink. If you are keeping your cooler below 40°F, do the environment and your pocketbook a favor and put 2 (or 4!) inches of rigid foam insulation down. See our Cooler Construction pages for resources.

Stop Thermal Bridging: Coolers built with insulation between studs create “thermal bridges” where the cold goes flying through the wood to the outside. Avoid this problem by adding a layer of solid styrofoam around the inside or outside of the cooler.

Sealing the Holes: The smallest gap can allow cold air to escape, costing you money and limiting cooling. People are often sloppy around doors OR seals go bad periodically. Go inside the cooler with the lights off and look at your door. You should see NO light. Door gap sealers are under \$15 at Home Depot and will save you \$15+ per month! Imperceptibly small holes in the corners can cause the same thing! One \$5 can of caulk (or “Great Stuff” spray-foam) applied to all corners pays for itself in weeks. *Use soft-foam waterpipe insulation to seal gaps between the A/C unit and the wall instead of spray-foam.*

Adding Another Layer of Insulation pays for itself quickly! The difference between 3” and 4” of styrofoam is huge!

QUICK Cheat Sheet for CoolBot Controls

The CoolBot remembers all your settings even if it is unplugged

Set your ROOM TEMPERATURE

After 30 seconds with no button-presses, the CoolBot display always reverts to showing you the temperature in your Cooler. The light under “ROOM” will be on to show you are in “ROOM-Temperature” mode. To adjust Room temperature:

- Press the center ✓ button.** The “set-temperature” will appear, blinking in the display.
- Use the arrow buttons** to increase or decrease the temperature.
- Press the ✓ button** to program your new setting into memory.

FIN setting (*Adjusts how sensitive CoolBot is to catching ice if you are getting ice-up problems*)

Default is “1”. Going lower is more “aggressive” since the CoolBot starts ignoring some ice, but *!Caution!* For most people, going below “0” may cause random freeze-ups! Some people need to bump up to “3” or “4” to keep from icing up. See troubleshooting, above, if it's freezing up (or not getting cold enough) to choose your setting. To change the FIN setting from default (Room) mode:

- Press the right arrow key.** You'll see the light behind the word “FINS” illuminate. In “fins mode” *the display reads the temperature on the fins of the air conditioner.*
- Press the ✓ button.** Now the aggressiveness is displayed, blinking. 1 is the default. 0 or “-1” would be more aggressive but can cause ice-ups depending on your situation. If you are getting freeze-ups, you would RAISE the setting (to 2 or 3).
- Press the ✓ button** again to program your new setting into memory.

HEATER DELAY setting (*Default is “d1”*)

This setting forces a longer “defrost” cycle for people with ice-up trouble that FIN setting increases alone can't help. See troubleshooting re: ice ups before trying. To change the HEATER DELAY setting from default (Room) mode:

- Press the right arrow key 2 times.** The light behind the word “HEATER” illuminates, and display reads “F” or “C” for Fahrenheit or Celsius.
- Press the ✓ button 3 times.** You'll see a blinking “d1” (default). “d0” would be no delay – faster cooling. “d2” and higher means longer and longer delays. 60 and 30 are the highest delays.
- Press the ✓ button** again to program your new setting into memory.

Reset the CoolBot to Factory Settings: Things getting weird? Reset the CoolBot back to factory-fresh settings by pressing the right arrow key 3 times. The light behind “PROGRAM” illuminates, and the display will read “6.5” (your firmware code.) Press the ✓ button 5 times, until CoolBot reads “p1”. Press the ✓ button again, it will read “n”. Press the right arrow and the display will read “y”. Press the ✓ button... you are Reset!

More questions? Email support@storeitcold.com or check out www.storeitcold.com

Want to Double Your Warranty? Check out <http://www.storeitcold.com/testimonials-form/>. Tell us how your CoolBot is doing, send in some pictures and we'll double your warranty from 1 to 2 years!

www.storeitcold.com

support@storeitcold.com

1-888-871-5723

Remember – clean your A/C fins every few weeks!