



Tennessee Chill Box, LLC
9909 Blue Springs Rd
Harrison, Tennessee 37341
423-710-1476

CB8000

AMBIENT AIR CONDITIONED FRESH AIR SUPPLY SYSTEM

OPERATORS MANUAL

Thank you for choosing the **CHILL BOX**, a unique, air conditioned ambient fresh air supply system for your respiratory protection needs. To ensure the proper use and maintenance of your air conditioned system, please carefully read the information contained in this manual before using your system. Should you require any further information, please contact TENNESSEE CHILL BOX, LLC directly for assistance, we will be pleased to assist you.

*******WHEN YOU RECEIVE YOUR CHILL BOX*******

Read these instructions **before** you remove the Chill Box from the shipping box. On the base of your unit, there is a PVC drain plug to release any possible condensation during the summer months. After you read the instructions, remove

the unit from the packing, place the Chill Box directly on its back side to mount the wheels and front leg supports with the hardware provided.

PLEASE INSPECT YOUR CHILL BOX AND COMPONENT KIT AT TIME OF DELIVERY. THERE IS A LIMITED TIME FRAME FOR REPORTING DAMAGE DUE TO SHIPPING AND HANDLING. SAVE THE SHIPPING BOX AND ALL PACKING MATERIALS FOR 30 DAYS. IF YOUR UNIT IS DAMAGED, OR DOES NOT PERFORM PROPERLY DUE TO SHIPPING ISSUES, WE WILL NEED THE PACKING MATERIAL TO JUSTIFY A CLAIM. NOTIFY US AT ONCE IF THERE IS VISIBLE DAMAGE.

AFTER INSPECTION OF YOUR UNIT, AND MOUNTING THE WHEELS AND FRONT LEGS, PLEASE PROCEED TO START UP INFORMATION BELOW. CALL US AT ONCE IF THE CHILL BOX DOES NOT PERFORM PROPERLY.

GENERAL INFORMATION PRIOR TO START UP

Normal Sounds

***Sounds of Rushing Air**

At the front of the unit, you may hear the sound of rushing air being moved by the fan.

***Pinging or Swishing**

Droplets of water hitting condenser during normal operation may cause pinging or swishing sounds.

***High Pitched Chatter**

The high efficiency compressor may have a high pitched chatter during the cooling cycle.

Operating Settings

To change temperature of air to the user:

Note: Tap or hold either up (>) or down (<) button until desired temperature is seen on the display. This temperature will be automatically maintained anywhere between 64 F and up. After you have selected your desired temperature, the

digital panel will display the current ambient temperature where the Chill Box is located. It does not mean your unit is not following your setting request.

To operate Lower AC Unit- On- Fan Mode ONLY:

Use this function when Air Conditioning is not desired, when working conditions and the ambient air is cool, (winter months). We suggest medium fan speed for non- AC days.

ADDITIONAL ITEMS TO NOTE

There are more features on your control that you should become familiar with. The “COOL” or “AC” circuit has an automatic 3 minute time delayed start if the unit is turned off and on quickly. This prevents overheating of the compressor and possible circuit breaker tripping. The fan will continue to run during this time.

The control will remain the set temperature within 2 degrees Fahrenheit, between 64F and 90F degrees. There is a 2-Second delay for the compressor shutting down when selecting FAN ONLY MODE. This is to cover the possibility of having to dial through to select a different mode. After power outage, the unit will memorize the last setting and return the unit to the same setting once power is restored.

GETTING STARTED

Place the CHILL BOX as far away from the contaminated work area as possible and plug into a standard 15 amp breaker; we strongly recommend using a 20 amp breaker for maximum performance when possible. The unit must be placed in **GRADE D, BREATHABLE, CLEAN AIR.**

Verify that the air filter is properly covering the front of the vent of the **CHILL BOX.**

START UP PROCEDURES

HOSES: NEVER BLOCK OFF AIR FLOW WITH A PLUG OR QUICK DISCONNECT FITTING THAT IS NOT APPROVED FOR THIS UNIT. DO NOT USE ANY COMPONENTS WITH THE CHILL BOX THAT ARE NOT APPROVED. DO NOT GLUE THE “WYE” FITTING ON THE UNIT AND BLOCK OFF ONE SIDE FOR SINGLE LINE USE. USE ONLY THE “WYE” FOR 2 LINE USE, AND REMOVE THE “WYE” FOR SINGLE LINE USE APPLICATIONS.

Lower AC Settings:

- 1) Check to be certain that the front air filter is clean and in place.
- 2) Absolutely no air hoses are to be attached at this time.
- 3) Plug in the power cord, and be certain the breaker is turned ON.
- 4) On the lower digital control panel, turn the fan system “ON”.
- 5) Set the digital control to “COOL” and then the fan control on “HIGH” for summer months, or “MEDIUM” for non AC days.
- 6) Pre-set the digital control temperature to 64 degrees
- 7) Wait 5 to 10 seconds, and then proceed to the upper chamber settings.

Upper Unit (Blower Motor) Settings:

- 1) Place the small, black upper knob to “ON”, (up is ON, down is OFF)
- 2) The round dial also has an ON/OFF mode. Turn your dial clockwise to 11:00 o’clock, and within a few minutes, you should feel conditioned air at the exterior connection. Allow the unit to run, without hoses for 5-10 minutes and then proceed to attach your single air- line, or the “wye” adapter and dual lines.

ATTACH YOUR HOSE FOR SINGLE USE OR “WYE” OR 2 LINE USE.

With the unit still running and maintaining the same settings, uncoil the air hose and attach to the manifold outlet. The hose should never be used to pull the box or form a sharp angle to the air outlet- this can cause premature wear of the hose, restriction of the airflow, and/or failure to the unit or hoses.

You are now ready to begin using your system!

During extreme hot days, your air- line hose might take several minutes to cool down. The job of the Chill Box is to overcome the extreme ambient temperature of the hose assembly. To speed up the cooling process, we suggest attaching 100’

of the hose to the unit, and placing the open end of that hose back into the intake of the lower AC unit. The same concept as a Proportioner on the re-cycle during the winter months, in order to preheat your materials prior to spraying insulation.

*****DOUBLE CHECK*****

- 1) Report any damage on the shipping box, the unit and the hose assemblies. We have a limited time frame to claim damage. This includes visible exterior damage or INTERNAL DAMAGE that might not be noticed until you have operated your unit and understood its true potential.
- 2) Please phone us at 239-322-2103 if you have an Operational question. It would be our pleasure to walk you through the start-up procedure, and answer any questions you may have. We are available M-F, 8am -5pm EST. If we cannot connect at once, leave us a message and we will return your call as soon as possible.

Trouble shooting

No Power

Wall plug disconnected. Push plug firmly into wall outlet. Job site fuse blown or circuit breaker tripped. Replace fuse with time delay type or reset circuit breaker.

Air Conditioner will not operate.

Control is OFF. Turn control ON and set to desired setting.

Air Conditioner cooling, yet the air hose feels warm or ice forming on intake coil.

Dirty air filter – Air restriction.

Replace air filters purchase directly through Tennessee Chill Box.

AC intake coil is dirty, coils need to be cleaned at least monthly, by lightly spraying with clean mist water spray. You may use liquid dish soap and water to clean as well. After using the light water spray from top to bottom,

side to side gently on coil, front and back, lightly blow out excess water from the unit with air hose.

Temperature is set too high.

Set temperature to a lower setting. Adjust from (64-70 degrees)

Front of Unit is blocked.

Restricted air. Clean blockage in front of unit.

Ice forming on Coils.

Increase blower speed and increase temperature. To defrost, set to FAN ONLY mode until the unit has thawed.

If in low ambient temperatures, move unit to a warmer location or place a small space heater directly in front of unit to trick the thermostat.

Please remove black foam filter before using space heater.

Air Conditioner turns on/off rapidly.

Power surge from job site or generator supply.

Dirty air filters- air restricted to unit. Clean Air filters.

If outside temperature is extremely HOT, set Fan speed to the HIGH setting to bring air through cooling coil more frequently. Check for possible power surges from your supply source, generator, etc.

Air from unit does not feel COOL enough.

Compressor shut-off by changing modes. Wait approximately 3 minutes and listen for compressor to restart when set in the COOL mode. Reset to a lower temperature. On the digital control, arrow down to 64 degrees, and within a few seconds, the display will return back to the ambient air temperature.

Noise when unit is cooling.

Air movement sound. This is normal.

Water dripping when unit is cooling.

Unit removing large quantities of moisture from humid room. This is normal during excessively humid days. There is a drain pipe on the bottom of your

unit for water discharge. Feel free to connect a small hose to discharge water away from unit.

Please phone **239-322-2103** for **Service** or **Operation** questions. If you do not connect, please leave a message and your call WILL be returned as soon as possible.

Sale or **Billing** questions, please phone the office @ **423-710-1476**.

The Tennessee Chill Box is manufactured in America, with American made components and lab. The Chill Box is protected by Utility Patents and we provide an excellent one year limited warranty.

www.tennesseechillbox.com