TENNESSEE CHILL BOX, LLC
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CB 8000
AMBIENT AIR CONDITIONED FRESH AIR SUPPLY SYSTEM OPERATOR'S 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 for 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.

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 MATERIAL FOR 30 DAYS. IF YOUR UNIT IS DAMAGED, OR DOES NOT WORK PROPERLY DUE TO SHIPPING, WE WILL NEED THE PACKING MATERIALTO JUSTIFY A CLAIM. NOTIFY US AT ONCE IF THERE IS VISIBLE DAMAGE, OR YOUR CHILL BOX DOES NOT WORK.

AFTER INSPECTION OF YOUR UNIT, AND MOUNTING THE WHEELS AND FRONT LEGS, PLACE THE CHILL BOX IN THE UPRIGHT POSITION FOR 24 HOURS PRIOR TO START UP. CALL US AT ONCE IF YOUR CHILL BOX DOES NOT OPERATE PROPERLY!

GENERAL INFORMATION PRIOR TO START UP

Normal Sounds

*Sound 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 the desired temperature is seen on the display. This temperature will be automatically maintained anywhere between 64 °F and up. After you have selected your 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 Adjust Fan Selection On Lower AC Unit:
Options of High, Medium and Low are available. Use High fan setting during hot, ambient conditions and medium fan setting during the times when the lower AC unit is not needed. Proper fan selection will eliminate front intake coil freeze up, and help provide the user with as much conditioned air as possible.

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 THINGS YOU SHOULD KNOW
Here 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 maintain 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. This is to cover the possibility of having to roll through to select another mode. After a 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 (110-120 volt) power outlet. This unit works on a 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 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 "Y" FITTING ON THE UNIT AND BLOCK OFF ONE SIDE FOR SINGLE LINE USE. USE THE "Y" FOR 2 LINE USE, AND REMOVE THE "Y" FOR SINGLE LINE APPLICATION.

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 the power cord in, and make sure the breaker is turned on.
4) On the lower digital control panel, turn the system "ON".
5) Set your digital control to "COOL" and 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 go to the upper unit settings

Upper Unit (Blower motor) Settings:

8) Place the small, black upper knob to "ON", (up is on, down is off)
9) 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 to 10 minutes, and then proceed to attach your single air line, or the "Y" and dual air lines.

10) **ATTACH YOUR HOSE FOR SINGLE USE OR THE "Y" FOR 2 LINES**

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 at the air outlet – this can cause premature wear of the hose, restriction of the airflow and/or failure of the unit and hose.

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 hose to the unit, and placing the open end of that hose back to the intake of the lower AC unit. The same concept as your proportioner on re-cycle during the winter months, in order to pre-heat your material prior to spraying.

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

1) Report any damage on the shipping box, the unit and 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 understand its true potential.

2) Allow your unit to stand in the upright position for 24 hours, after you have inspected the unit and components, to allow the refrigerant coolant to settle after shipping.

3) Please call us if we can help you. It would be our pleasure to walk you through the start up procedure, and answer any questions you might have. We are available 7 days a week, 24 hours a day. If we cannot connect at once, 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 restricted. Clean air filter or replace (Ace Hardware)

AC Intake coil dirty, clean coil with air or lightly spray clean with water. You may use liquid dish soap and water for cleaning as well, and after using water, lightly blow dry excess water out of the unit.

Temperature is set too high. Set temperature to a lower setting. (From 64 degrees to 70 degrees as an example)

Front of unit is blocked - restricts air. Clear blockage in front of unit

Unit recently turned on in hot ambient conditions. Allow additional time for hoses to cool down.

Ice formed on coil behind filter. To defrost, set to FAN ONLY mode until ice has thawed.

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

Air conditioner turns on and off rapidly.

Power serge from job site or generator supply

Dirty air filter - air restricted. Clean air filter.

If the 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 cold 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 temperature.

Noise when unit is cooling.
Air movement sound. This is normal.

Water dripping when unit is cooling.
Unit removing large quantity 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 exit.

Call 1-423-710-1476 for Service at TENNESSEE CHILL BOX, if we don't connect, leave us a voice mail with your name and number. We will return your call just as soon as we can.

The Tennessee Chill Box is manufactured in America, with American made components and labor. We meet or exceed any and all required OSHA/NIOSH/EPA standards and requirements. We are protected by Utility Patents, and provide an excellent 1 year warranty.

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