

**User's Manual  
for  
Tennessee Chill Box System  
With APPROVED NIOSH ATTACHMENTS**

**P/N  
N-CB8000M  
N-CB8000H**



Read and understand all instructions before using this product. Open carton carefully and inspect product for damage caused by carrier. If any damage is found, report and submit claim to carrier.



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## INTRODUCTION

This manual provides instructions for the use and maintenance of the Tennessee Chill Box. Read and understand all information contained in this manual before operating system.

FOR MORE INFORMATION ON TENNESSEE CHILL BOX PRODUCTS, OR PARTS CATALOG, CONTACT TENNESSEE CHILL BOX TECHNICAL SERVICE @ 239-322-2103 or [SALES@TENNESSEECHILLBOX.COM](mailto:SALES@TENNESSEECHILLBOX.COM) OR OFFICE @ 423-710-1476

## DESCRIPTION

The Tennessee Chill Box System is designed to supply conditioned air from an ambient source to a NIOSH approved Type C, Continuous Flow Supplied Air Respirator.

### **WARNING!**

Intake filter DOES NOT remove dangerous organic vapors, gases, or particulate. DO NOT use this equipment if dangerous organic vapors, gases, or particulates are present.

**WARNING! Tennessee Chill Box System** should only be used in areas containing sufficient oxygen to support life. Do not use where contaminants are Immediately Dangerous to Life and Health (IDLH).

### **WARNING!**

Never operate unit with both valves of the Dual Valve "Y" outlet in the closed position.

## CAUTIONS AND LIMITATIONS

- The air drawn into the inlet filter must meet the requirements of the Compressed Gas Association Commodity Specifications G-7.1 (Grade D or higher), as specified by Federal Law (29 CFR 1910-134). **NOTE:** It is extremely important that the Tennessee Chill Box System remains clear of any running gas powered motors that would produce exhaust fumes containing Carbon Monoxide. (i.e. cars, trucks, compressors, etc.)
- DO use only Continuous Flow, Supplied Air Respirators that are approved by NIOSH to operate at pressures less than 5 psi.
- DO NOT USE in any locations that are (IDLH) Immediately Dangerous to Life and Health.
- DO USE only NIOSH approved respirators designed for use with ¾" I.D. airlines and couplings.
- DO NOT use any non-approved airline or couplings. This will void the respirator's NIOSH approval and could reduce air flow, resulting in serious injury or death to the respirator wearer.

- Tennessee Chill Box System is designed to deliver a minimum of 4 cubic feet/ min (CFM) for tight fitting facemask, or 6 cubic feet/ min (CFM) for loose fitting hood (as required by 42 CFR 84).
- The maximum approved hose length allowed for this unit is 300 feet for single respirator use and 200 feet for dual respirator use.
- When using two worker set-up, both workers must use the same length airline and respirator type (Both full face masks or both hoods) to ensure proper air flow.
- Always test for adequate air flow prior to attaching and donning respirator.
- Consult respirator manufacturer's User's Manual for proper respirator use and maintenance.
- DO ensure supply pressure is maintained above the minimum pressure setting as required by the respirator manufacturer.
- DO NOT remove (Doff) the respirator while in the contaminated work area except for emergency escape only.
- DO NOT use airline to pull the unit or form a sharp angle to the air outlet – this can cause premature wear of the airline, restriction of the airflow, and/or failure off the unit or airline.
- DO NOT have any electrical connections around the condensation drain of unit.
- **DO NOT use circuit breaker on power cord for on/off switch.**

### SETTING UP TENNESSEE CHILL BOX SYSTEM

- Open shipping carton and carefully remove Chill Box System and Hardware Kit.
- Lay Chill Box System on its back side and mount wheels and front leg supports with the hardware provided.
- Stand Chill Box System upright and install and secure handle with hardware provided.
- Thread the Dual Valve “Y” outlet assembly onto the ¾ NPT at the outlet of the unit. (Hand tighten)
- Allow the unit to stand upright for one hour prior to operating.

### CONTROL FEATURES

CONTROL	FUNCTION
Supply Pressure Gauge	Displays (outlet) air pressure
Blower Speed Dial	Adjusts air flow
Power Switch	Turns blower on/off
Temperature Dial	Adjust air temperature - Settings #1 - #7 (Max Cool)
Mode Dial	Controls AC functions – Fan / AC Modes

#### **WARNING!**

Always wait 3 minutes when turning unit on/off or when changing from “cool” to “fan” mode and then back to “cool”, to prevent compressor from overheating or circuit breaker from tripping.

## START UP - OPERATING INSTRUCTIONS

1. Connect to power cord to a 120 VAC/ 60 Hz power supply.
2. Check to ensure air filter is clean and in place.
3. Connect Drain Hose to Condensation Drain (on bottom of the unit).
4. Turn the "Temperature" Dial to Setting #7 (Max Cool).
5. Turn the "Mode" Setting Dial to "High Cool".
6. Ensure one or both of the valves are open on the "Y" Outlet Manifold.
7. Turn the Power Button to the "On" position (Next to the Blower Speed Dial).
8. Set the "Blower Speed" Dial to the "11:00" position.
9. Let Unit run without any airlines connected for 5-10 minutes.
10. Connect appropriate airlines and respirators (only use in NIOSH approved configuration).
11. Adjust "Blower Speed" Dial to appropriate setting and at the end of each airline check for sufficient airflow. (TCB Airflow indicator ).

## ELECTRICAL SPECIFICATIONS

Component	Specs
Blower Unit	120V, 60/ 50Hz, 8.6A, 248 W
AC Unit	115V, 60Hz, 6.5A , 735 W
Power Cord/ Circuit Breaker	15A, 125V, 1875W

### • MAINTENANCE

- **Clean Filter daily or as needed with compressed air. Wash using mild detergent and warm water weekly or as needed. (Allow to dry fully before use.) Replace every 60 days.**
- **Clean Coils as often as you feel necessary for system performance, at minimum –BI-WEEKLY!**
- If you are experiencing your CB8000 system not cooling as you think it should, take a few minutes to clean your front coils! It is beneficial to the life and performance of the system
- Remove front black foam filter
- Tip box forward a bit by grasping at the top of the unit and tip top towards you.

- Take a garden hose with a very light spray and start at the top of the coils working your spray from side to side from top to bottom of the coils.
- CAUTION... TAKE EXTRA PRECAUTION –NOT to saturate the electrical control panel area to the left since it contains technical wiring and may result in a short in the system.
- Take an air hose and gently blow out any excess water that has accumulated within the coils.
- Replace black front foam filter, and restart system. You should notice a significant change in cooling temperature.

## TROUBLE SHOOTING

Symptom	Solution
No Power	Wall plug disconnected. Push firmly back into wall outlet.
	Circuit Breaker is tripped. Reset Circuit Breaker.
Air not cooling	Mode setting switched to “Fan” or “Off” position. Turn Dial to “Cool” mode.
	AC Unit turned off by thermostat. Wait 3 minutes and set to cooler setting.
Ice forming on coils	Restricted air. Clear blockage/ clean filter. Set to “Fan” mode to defrost.
	Thermostat set too low. Adjust to warmer setting. Set to “Fan” mode to defrost.
	Fan not moving enough air. Adjust “Blower Speed” Dial to higher setting. Set to “Fan” mode to defrost.
	Low on refrigerant.

**TENNESSEE CHILL BOX  
LIMITED WARRANTY AND WARRANTY SERVICE AND RETURN POLICY**

**Express Warranty**

The warranty obligations of Tennessee Chill Box (TCB) are limited to the terms set forth below:

All products, equipment and parts (collectively "Product" or "Products") sold by TCB, either directly to its customers, or indirectly from its suppliers or distributors to their customers, are warranted, to the original end-user purchaser who/that receives the original, unaltered Product ("Purchaser"), to be free from defects in workmanship and materials under normal use for one (1) year from the date of sale to the Purchaser, when installed properly and used normally and in accordance with written operation instructions, if any ("Limited Warranty") ("Warranty Period"). No other express or implied warranty is given, and no affirmation of TCB, by words or action, will constitute a warranty.

This Limited Warranty is conditioned upon proper use of the Product by Purchaser and applies only to Products manufactured by or for TCB that can be identified by the TCB trademark, trade name or logo affixed to them. This Limited Warranty does not apply to or cover: (a) defects or damage caused by or resulting from external causes including, but not limited to, accident, carrier handling, improper packaging in shipment; abuse, misuse, neglect, unusual physical stress, cosmetic damage, flood, fire, earthquake or other natural disasters; (b) normal wear and tear; (c) any modification of any part of the Product; (d) damage caused by using the Product outside the permitted or intended uses described by TCB or written instructions; (e) malfunctions resulting from the use of the Product in conjunction with accessories, products or ancillary/peripheral equipment not furnished or approved by TCB; (f) defects or damage caused by improper testing, operation, maintenance, installation or adjustment; or (g) defects or damage caused by installation and/or service performed by anyone who is not authorized by TCB.

Each Purchaser agrees and acknowledges that the use, installation and/or operation of the Products shall be at Purchaser's own risk and may result in severe injury, death and/or damage to persons or real and/or personal property.

No TCB supplier, distributor, officer, agent or employee is authorized to make any modification, extension, change or amendment to this Limited Warranty without the express prior written consent and authorization by the President of TCB.

TCB reserves the right to make improvements or changes to its Products at any time, without incurring any obligation to Purchasers, suppliers, distributors or customers who/that previously purchased Products directly or indirectly from TCB.

EXCEPT AS SET FORTH IN THE EXPRESS WARRANTY CONTAINED HEREIN, PURCHASER TAKES THE PRODUCT "AS IS." THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS BEYOND THOSE STATED IN THIS LIMITED WARRANTY STATEMENT. TCB DISCLAIMS ALL OTHER WARRANTIES AND CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY OF THE PRODUCTS AND THEIR FITNESS FOR ANY PARTICULAR PURPOSE.

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NOTHING CONTAINED IN ANY WRITTEN INSTRUCTIONS OR WRITTEN INSTRUCTION OR OPERATION MANUAL OR CATALOG SHALL BE CONSTRUED TO CREATE A WARRANTY OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT.

IN ADDITION, TO THE FULLEST EXTENT PERMISSIBLE BY APPLICABLE LAW, TCB SHALL NOT BE LIABLE FOR ANY INJURY OR DAMAGE TO PERSONS OR PROPERTY OF ANY KIND, OR FROM ANY LOSS OF TIME, INCONVENIENCE, OR LOSS OF USE, INCLUDING ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES ARISING DIRECTLY OR INDIRECTLY OUT OF OR IN CONNECTION WITH THE USE, INSTALLATION AND/OR PERFORMANCE OF THE PRODUCT OR PRODUCTS, WHETHER SUFFERED BY SUPPLIER, DISTRIBUTOR, CUSTOMER, PURCHASER OR ANY OTHER PARTY, AND REGARDLESS OF THE LEGAL THEORY UPON WHICH THE CLAIM IS BASED, EVEN IF TCB HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. WITHOUT OTHERWISE LIMITING THE FOREGOING, IN NO EVENT SHALL RECOVERY OF ANY KIND AGAINST TCB BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT. THIS WARRANTY GIVES YOU LIMITED SPECIFIC LEGAL RIGHTS.

#### Warranty Service during Warranty Period

The following requirements must be followed before returning any Product or Products to TCB:

1. All Purchasers must obtain a Return Merchandise Authorization Number ("RMA#") before returning any Product to TCB. TCB will refuse to accept any Product returned that does not have the RMA# clearly marked on the outside of the package or box. The Purchaser may obtain this RMA# by telephoning TCB Customer Service number at (423)710-1476, or by requesting it in writing by mailing the written request to TCB, 9909 Blue Springs Rd, Harrison, TN 37341 or by emailing the written request to [sales@tennesseechillbox.com](mailto:sales@tennesseechillbox.com).

2. Upon TCB's issuance of RMA # to a Purchaser, the Purchaser must decontaminate and clean the Product to remove any hazardous materials which may have settled on the Product during use. TCB reserves its rights to refuse, and will refuse, to accept any Product suspected of being contaminated and/or containing any dangerous chemical(s) or material(s), and will return that Product or those Products to the Purchaser, freight collect.

3. All Purchasers must return the Product or Products to TCB freight prepaid, with the RMA# clearly marked on the outside of the box or package. Each Product to be returned should be packaged in its original Product packaging materials or equivalent, and be well padded, to prevent damage when in transit, and should be adequately insured by Purchaser. All Purchasers must bear the risk of loss of the Product during transit from Purchaser to TCB. Inside the Product's package, please enclose your name, address, and telephone number, a description of the problem and a model and/or serial number for each Product returned.

Upon TCB receipt of a returned Product from a Purchaser that meets the above requirements, TCB will determine in its sole discretion whether the Product is defective. If TCB determines that the Product is not defective and/or does not meet the terms of this Limited Warranty, TCB will return the Product to the Purchaser freight collect. If TCB determines that the Product is defective, TCB will determine in its sole discretion whether to repair or replace the defective Product covered by this Limited Warranty.

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Each Purchaser's sole and exclusive remedy for defects in Products covered by this Limited Warranty is limited to TCB's correction of the defect by repair or replacement.

This Limited Warranty represents the complete and exclusive agreement covering this subject matter between TCB and Purchaser and supersedes any prior agreements and/or communications regarding the subject matter hereof. The terms of this Limited Warranty shall be governed and construed in accordance with the laws of the State of Tennessee, without regard to any conflict of law principle that would result in the laws of any other jurisdiction governing this Limited Warranty. Any action or proceeding arising out of this Limited Warranty shall be litigated in the Tennessee Superior Court located in Nashville, Tennessee, 37219. Each Purchaser purchasing any Product from TCB, directly or indirectly, shall be deemed to consent and submit to the jurisdiction of the state court located in Nashville, TN. If any term or provision contained in this Limited Warranty is determined to be unenforceable in any respect, the enforceability of the term or provision in any other respect and of the remaining terms and provisions of this Limited Warranty shall not be impaired. This Limited Warranty shall not extend to anyone other than the original Purchaser of the Product(s) and shall be Purchaser's exclusive remedy. Each Purchaser acknowledges that this Limited Warranty will always be construed to be limited by its terms to the greatest extent as the law permits.

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