



CB08H.1

# Window Ventilation Economizer (Model TTI-CB08H) for use in double hung window PRODUCT MANUAL & INSTALLATION GUIDE

## READ AND SAVE THESE INSTRUCTIONS



Spring, summer and fall tend to be warm during the day and cool in the evenings. Use the CapeBreeZ to cool your home naturally with healthy, filtered air.

The CapeBreeZ is designed to run alone and will also compliment air conditioning systems by monitoring the temperature and humidity inside and outside of your home.

**This fan is for residential use only. It is not intended to be used in commercial, industrial or agricultural settings.**



READ CAREFULLY BEFORE ATTEMPTING TO ASSEMBLE, INSTALL, OPERATE, OR MAINTAIN THE PRODUCT. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE. KEEP INSTRUCTIONS FOR FUTURE REFERENCE.

### Material Included

CapeBreeZ\*

- (2) 7" Weather Strip
- (2) 42" Weather Strip
- (1) 42" Center Sash 2ply Insulation
- (1) Wire Tie, 6"
- (1) Support Bracket
- (1) Leveling Adjustment Screw 1 3/4 x 1"
- (3) Installation Screws #8 x 3/4"
- (2) Slider Extenders
- (2) Insulated Foam Panels 7" x 9"
- Glue Dots

\* Includes factory installed filter

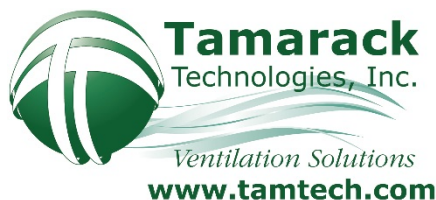
### Tools and Supplied Needed (not provided)

- Phillips Screwdriver
- Scissors
- Drill, 3/16 bit (Suggested for metal clad windows and may be helpful on vinyl or wood window sills)

CONTENTS	PAGE
Important Safety Instructions	2
Installation	3
Operating Instructions	4
Troubleshooting & Maintenance	5
Specifications	5
Warranty	6




Danger, Electrical Shock, Fire



20 Patterson Brook Rd / West Wareham, MA 02576  
774-678-4433 / 800-222-5932 / Fax 774-678-4436

## IMPORTANT SAFETY INSTRUCTIONS

 **WARNING:** TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

1. Make certain the power source conforms to the electrical requirement of the fan.
2. Make sure the room is equipped with a working smoke detector.
3. Use this fan only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electrical shock, or injury to persons.
4. Keep the fan out of the reach of children.
5. Unplug the power cord before installing, maintaining, or moving the fan. Do not depend on the on/off switch as the sole means of disconnecting power.
6. The fan must NOT be used in potentially dangerous locations such as flammable, explosive, chemical-laden or wet atmospheres.
7. Where possible, avoid the use of extension cords because an extension cord may overheat and cause fire. If you must use an extension cord, minimize the risk of overheating by using the shortest cord possible and ensuring it is UL listed. NEVER use a single extension cord to operate more than one fan. DO NOT plug fan into any other cord connected device such as a power strip, core reel, surge protector, multiple outlet adapters or outlet type air fresheners. The use of such devices may create a fire hazard.
8. NEVER operate any fan with a damaged cord or plug or after the fan malfunctions, has been dropped or damaged in any manner.
9. NEVER insert or allow fingers or foreign objects to enter any ventilation opening as it may cause electrical shock, fire, or damage the fan. To reduce the risk of fire, DO NOT block or tamper with the fan in any manner while it is in operation.
10. Locate the power cord so the fan or other objects are not resting on it. Do not run the cord under carpeting. Do not cover the cord with throw rugs, runners, or similar coverings. Do not route the cord under furniture or appliances. Arrange the cord away from traffic areas and where it will not be tripped over.
11. NEVER locate a fan where it may fall into a bathtub or other water container. NEVER use fan where flammable liquids are stored.
12. DO NOT attempt to repair or adjust any electrical or mechanical functions on this unit. Doing so will void your warranty. The inside of this fan contains no user serviceable parts. All servicing should be performed by qualified personnel only.
13. This fan is not suitable for use in agricultural facilities including areas where livestock, poultry or other animals are confined. Please refer to the National Electrical Code (NEC) Article 547-7 (2008), or applicable state or local codes or standards relating to electrical requirements for Agricultural Buildings. THIS FAN DOES NOT MEET THE REQUIREMENTS OF NEC ARTICLE 547-7 (2008).
14. This fan is not suitable for use in hazardous locations. Please refer to the National Electric Code (NEC) Article 500 or applicable state or local codes or standards relating to electrical requirements for Hazardous locations. THIS FAN DOES NOT MEET THE REQUIREMENTS OF NEC ARTICLE 500(2008).
15. To Reduce The Risk Of Fire Or Electric Shock, Do Not Use This Fan With Any Solid-State Speed Control Device.
16. This appliance has a polarized plug (one blade is wider than the other) that should not be removed. This is a safety feature. DO NOT remove, replace, repair, or tamper with the originally supplied plug. This plug is intended to fit in a polarized outlet only one way. Match the wide blade of the plug to the wide slot. Fully insert. If the plug does not fit fully in the outlet, contact a qualified electrician. Do not attempt to defeat this safety feature. If the plug warning label is missing or damaged, call (800)222-5932 Monday through Friday 8 am – 5pm Eastern Time.

# Installation Instructions – Double Hung Window

Choose a window to install the fan. The fan will fit into a double hung window 15.75" to 36" wide with an opening height of at least 12". There must be a polarized outlet within 6' from the window.

## 1. Remove the window screen

This fan will extend beyond the window screen. The unit will be sealed in the installation process. The unit also has a filter that will block insects and bugs. A screen is not necessary with this unit.

## 2. Install the support bracket



Install the support bracket in the center of the window using 3 #8 x 3/4" screws (provided) to attach it to the outside window sill. Mark the location of the screw holes on the window sill. Drill 3/16" pilot holes for the screws. Insert the leveling screw at the end of the bracket. Adjust the height of the leveling screw so the top is level with the highest part of the window sill.

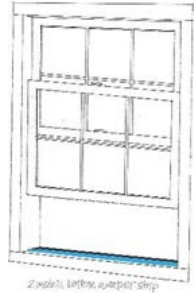


Figure 1

## 3. Install the extenders



Remove the 2 end screws from the window bracket. Loosen the center screw. Insert the extenders into the window bracket and secure with the 2 end screws. Tighten the middle screw.

## 4. Install the bottom weather strip (Figure 1)

Place 4 glue dots on the window sill where the CapeBreeZ will be placed. Cut a piece of the 42" weather strip to the window width. Attach the weather strip to the window sill.

## 5. Install the weather strips

Place 3 glue dots on the sides of the windows. Attach the 7" weather strips.

## 6. Install CapeBreeZ in the window

Place CapeBreeZ so it is centered in the window. Slide the extenders to the window frame and into the window channel.

## 7. Install the foam insulation

Measure the opening in the extender. Cut the foam insulation to this dimension using scissors. Slide foam in slot.

## 8. Install the top weather strip

Place 2 glue dots on the top of the unit and 2 on the end of the extenders. Cut a piece of the 42" weather strip to the window width. Attach the weather strip to the unit.

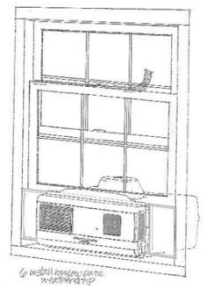


Figure 2

## 9. Close the window

Close the window so the window frame is between the window bracket and the motor dome. For increased security, a window lock (not provided) can be installed on the window.

## 10. Install the center sash insulation (Figure 2)



Cut the center sash insulation to the window width using scissors. Loop wire tie around insulation for easy removal. Insert it in the gap between the top window pane and the lower window frame with the stiff insulation facing indoors. For some windows with a narrow opening, the insulation may be need to be smaller.

## 11. Provide Power

Plug the cord into a polarized outlet. See Safety Instruction #16 for further information.

# Operating Instructions – Digital Control Panel

The CapeBreeZ can be customized for different conditions or user preferences. The standard settings are:

Fan Speed – 7 for 350 square foot room

Display Light Setting - Bright

Filter Change – 50 (500 hours)

Temperature Scale – Fahrenheit °F

ON/OFF

## Power (ON/OFF)

Plug the unit into a 120 volt outlet. Press the on/off button to turn the unit on and off.

SETUP

**Set up and customization (SETUP)** Press SETUP to toggle through options:

- 1 Display/Override the hours remaining on the filter (press +/- to reset)
- 2 Displays the outdoor temperature
- 3 Displays the indoor humidity dew point temperature
- 4 Displays the outdoor humidity dew point temperature
- 5 Maximum auto fan speed (press + or – to raise or lower) 1 low to 10 high  
Based on room size or user preference. Suggesting settings:  
5 =300 9 =400 sq'
- 6 Display light level (dimnable)  
1– Dim 2 – Medium 3 – Bright
- 7 Filter change reminder (press + or – to raise or lower) 10-100  
Adjust the hour of run time between filter changes. The hours are the display # times ten. A display of 50 represents a setting of 500 hours. For an area with a high level of outdoor pollution decrease the hours between changes. For areas with a low level of outdoor pollution increase the hours.
- 8 Select temperature scale (press + or – to toggle between °F and °C)



On the display in the above illustration "Outdoor Temp" is illuminated indicating the temperature outside is hotter than the temperature inside.



## Set desired indoor temperature (+/-)

Use the +/- to raise or lower the desired indoor temperature set point. The display will show the set point temperature when it is being changed and then show the room temperature. A lower set point will increase the use of outside air and can precool the home delaying or eliminating the need for air conditioning. The +/- button is also used to adjust other settings in SETUP.

HUM

## Set humidity on/off (HUM)

The CapeBreeZ has a humidity control feature that increases energy efficiency and comfort when the unit is being used with air conditioning. When the control is on, the unit continuously monitors indoor and outdoor humidity and will not bring in outside air that is more humid than the indoor air. When the control is on, the display light on the control panel will illuminate. When air conditioning is not used, the control can be turned off and the display light will turn off. Please note that the CapeBreeZ measures dew point not relative humidity. Press HUM to toggle on/off.

FAN

## Set the fan mode (FAN)

Press the FAN button to toggle through the fan modes.

**0** Auto Mode **1-3** Manual Speed Modes (the fan will run continuously at the setting selected) **4** Turbo Speed  
*Auto Mode – The room temperature will display in this mode. Auto mode control will determine when cooling is needed and available based on the set point and will adjust the fan for maximum energy efficiency. It will gradually increase the speed as the outdoor temperature drops and then decrease it as it nears the set point.*

## Trouble Shooting and Maintenance

The fan will not run when "Outdoor Temp" is illuminated on the display or, if the humidity lock is on, when the "Outdoor Humidity" is illuminated. This fan will not bring warmer, humid air into the space.

### Issue

CapeBreeZ is Not Running

### Reason/Action

In Auto Mode, the CapeBreeZ will stay on or off for a minimum of 3 minutes. Make sure fan is plugged securely into the electrical outlet. Confirm the set point is less than indoor temperature.

Airflow Decreases

Filter is dirty. Change the filter and adjust reminder settings if necessary.

### Changing the filter

The filter should be changed regularly to maximize air cleaning effectiveness. The filter drawer is at the bottom of the unit. It may be opened with the handle on the bottom or the two finger tabs on the side of the unit. Slide the drawer completely out of the unit. Slide the cover back to access the filter. Remove the existing filter and replace with a new one. The filter has a directional indicator for the airflow. The filter should be installed so the airflow moves upward through it. Close the filter drawer for operation.



Note: Adjust the filter reminder based on the conditions in the area. If you find the filter becomes clogged/dirty quickly, reduce the hours between filter changes (SETUP).

The CapeBreeZ ships from the factory with a 12x12x1 MERV8 Media Filter.

Replacement filters are standard 12x12x1" and may be purchased at your local home goods or hardware store.

### SPECIFICATIONS

Window Requirement: Double hung 15.75 to 36" wide  
Opening height 12"

Overall Dimensions: ..... 15.75 x 13.5 x 9.75" H

Maximum Room Size: ..... 400 sq ft

Fan Speeds: ..... 5

Electrical Requirements: .....115V, 60 Hz, 3A

Power: .....8 Watts Low/ 17 Watts Average

Unit Weight: .....12 lb 15 oz

Shipping Carton:..... 18 x 15.75 x 13" OD

Shipping Weight:.....16 lb .10 oz actual  
17 lb dimensional



**LIMITED WARRANTY** If, within the period of one (1) year from the date of purchase, the CapeBreeZ (the Product) is defective or malfunctions in normal home use, Tamarack Technologies, Inc. will repair or replace the Product, at its discretion. Customer is responsible for shipping charges.

**CONDITIONS, EXCLUSIONS, AND LIMITATIONS**

This Warranty is subject to the following conditions, exclusions and limitations:

THIS WARRANTY DOES NOT COVER PROBLEMS RESULTING FROM INSTALLATION, OPERATION OR MAINTENANCE THAT HAS BEEN UNDERTAKEN OTHER THAN IN ACCORDANCE WITH THE INSTRUCTIONS. THIS WARRANTY DOES NOT COVER PROBLEMS RESULTING FROM DEFECTS IN OR CAUSED BY ASSOCIATED EQUIPMENT (FURNACES, SOLARIA, ETC.); FROM REPAIRS OR MODIFICATIONS ATTEMPTED BY PERSONS OTHER THAN TAMARACK TECHNOLOGIES, INC.; FROM ABUSE, ACCIDENTAL OR SHIPPING DAMAGE OR ACTS OF GOD. THIS WARRANTY DOES NOT APPLY TO THE PRODUCT USED OUTSIDE THE UNITED STATES, ITS TERRITORIAL POSSESSIONS, AND CANADA. EXCEPT AS SET FORTH ABOVE, NO EXPRESS OR IMPLIED WARRANTY IS GIVEN OR AUTHORIZED BY TAMARACK TECHNOLOGIES, INC. AND ALL OTHER SUCH WARRANTIES ARE EXPRESSLY DISCLAIMED. ANY WARRANTY OR MERCHANTABILITY OF FITNESS FOR ANY PARTICULAR PURPOSE SHALL BE LIMITED TO THE WARRANTY HEREUNDER. MOREOVER, ANY LIABILITY OF TAMARACK TECHNOLOGIES, INC. FOR THE PRODUCT SHALL BE LIMITED TO THE REPLACEMENT VALUE OF THE PRODUCT. IN NO EVENT SHALL TAMARACK TECHNOLOGIES, INC. BE LIABLE FOR ANY INCIDENTAL DAMAGES OR FOR ANY CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGES, IRRESPECTIVE OF THE CAUSE THEREOF, OCCURRING EITHER DURING OR AFTER THE WARRANTY PERIOD, INCLUDING WITHOUT LIMITATION ANY DAMAGES TO ANY PART OF A BUILDING OR ITS CONTENTS. NOTE: SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES AND SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. **PROOF OF PURCHASE REQUIRED.**

If you have any questions about the warranty or would like to obtain warranty service, call **800-222-5932** (M-F 8-5 ET), Email [info@tamtech.com](mailto:info@tamtech.com) or mail: Tamarack Technologies, Inc. 20 Patterson Brook Road, Suite 7- West Wareham, MA 02576



20 Patterson Brook Rd / West Wareham, MA 02576  
774-678-4433 / 800-222-5932 / Fax 774-678-4436