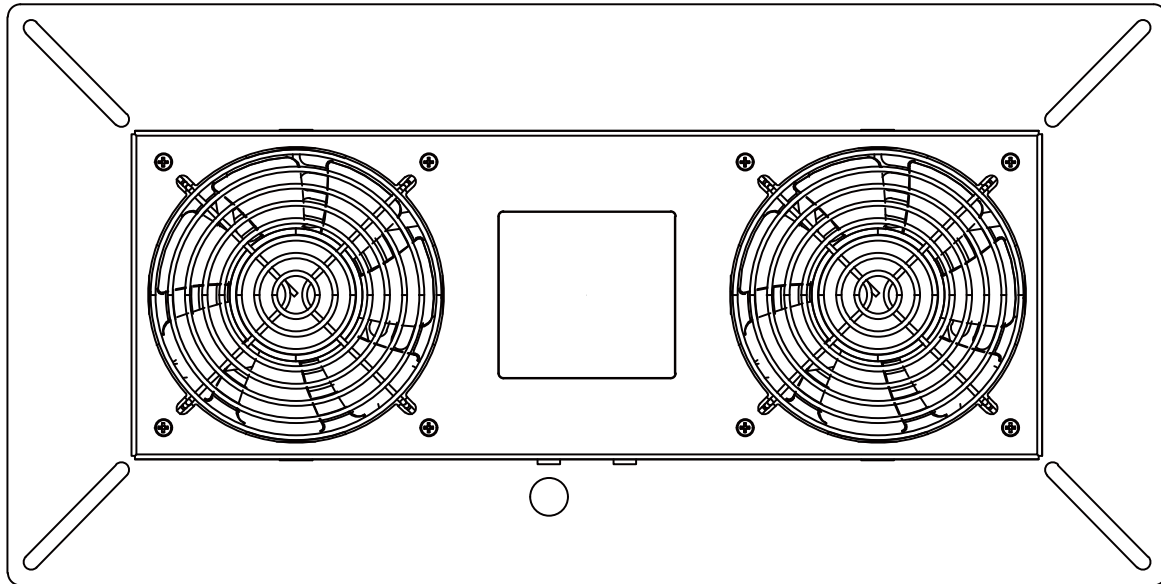


# User's Manual



**BEFORE INSTALLING THE PRODUCT, ENSURE THAT YOU GO THROUGH THIS DESCRIPTION.  
INSTRUCTIONS TO THIS EQUIPMENT MUST BE ADHERED TO. FAILURE TO DO SO CAN CAUSE HARM.**

## NeatyFresh Pro

**Abestorm Solutions INC.**

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E-mail: [sales@abestorm.com](mailto:sales@abestorm.com)

Tel: (888)276-9833

Note: as we keep upgrading our product, we reserve the right to modify the product without notice in advance.

Dear user,

Hello! Welcome and thank you for choosing NeatyFresh Pro Crawl Space Fan.

NeatyFresh Pro Crawl Space Fan, using lattice screen and DC technology to drive and control. The double ball DC motor gives you more than 65000 hours of running time. It will bring you comfortable, safe, energy-saving and intelligent life.

Please read the product instructions thoroughly before installation. These instructions must be carefully followed and consistent with the equipment. **Do not destroy this manual.**

## Product Description

The NeatyFresh Pro Crawlspace Fan is designed to allow fresh outdoor air to circulate under the house and porch. The high humidity that circulates the crawlspace is the main reason for the premature decay of the support column, joist, floor, and crossbeam support of the home. High humidity can promote the growth of fungi and increase the activity of termites. High humidity can also cause pipeline failure due to rust and corrosion. The continuous operation of the fan helps to vent radon, gases from treated wood, and other odors that may spread into the living area. Controlled by a circuit board, the dehumidifier control fan starts when the relative humidity is higher than the selected set value.

## Accessories List

FAN SYSTEM:×1      POWER ADAPTER:×1      WALL ANCHORS: ×4  
TEMPERATURE AND HUMIDITY PROBE SENSOR: ×1

## Product Technical Parameters

Standard size: 18×9×1.7in	Machine net weight: 4.7 lbs
Rated power: 8.5W	Rated voltage: 110V-230V, 50/60Hz

## Attention

1. It is forbidden to use this product in places that may lead to water intake from Crawl Space Fan such as outdoors, sprinklers, bathtubs, swimming pools, etc.
2. Use in the correct electricity environment.
3. It is forbidden to disassemble this product by yourself. If you have any questions, please contact the company's after-sales department.
4. Do not run the Crawl Space Fan for a long time. Please unplug the power supply.
5. Clean the surface of the machine, please wipe with a soft wet cloth, do not use friction, volatile cleaning agents or solvents, so as not to damage the surface coating.
6. When the equipment is in use, the LCD screen is atomized due to excessive humidity in the house. please turn off the equipment in time to

prevent the equipment from being closed by short circuit due to condensed water. If you notice that the equipment is not short-circuited in time, please do not worry, after the water in the machine evaporates, the equipment can resume operation.

## **Pre-installation Instructions**

The NeatyFresh Pro Crawlspace Fan must be installed by qualified installers in accordance with these instructions and all local codes, and in the absence of these codes, in accordance with the latest version of the International Residential Code and the International Electrical Code. Improper installation can cause dangerous situations such as fire, electrical shock, or personal injury. Using this equipment as directed by the manufacturer will significantly reduce these risks. Be sure to disconnect the crawlspace ventilator from its power supply before installation and maintenance. The temperature and humidity probe should be installed in the same space as the equipment (ensure that the temperature and humidity probe will not get wet or damaged). If you have any questions, please contact the ALORAIR manufacturer.

## **The Tools Needed**

- 1.5/16"nut roller or Phillips screwdriver.
2. If installed on bricks or foundation blocks, use a 5-stroke 16-inch masonry bit.

# Installation

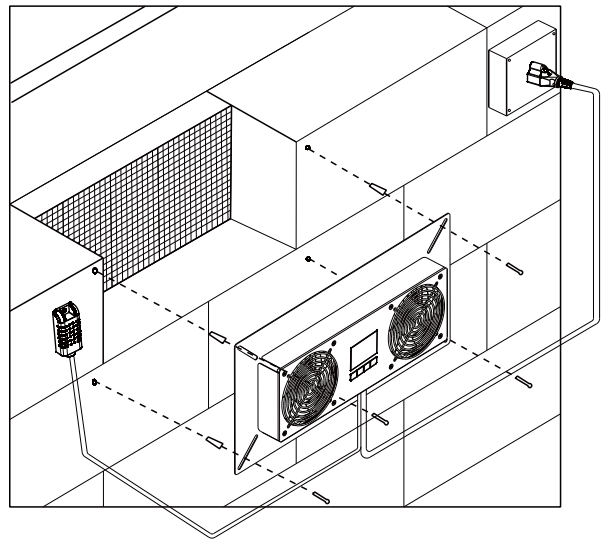
## Position

A Crawl Space Fan is installed in the crawling space behind the existing foundation ventilation opening. The vents should be within three feet of every corner of the building.

**Note:** The Crawl Space Fan must be installed in the climbing space, and the electrical control box and motor face the inside of the climbing space.

1. Remove existing doors or coverings on ventilation holes around the building.
2. Put the fan in the low building above the vent.

3. If installed on a base block or brick, mark the position on the four corners of the metal panel and drill 5/16 "holes." Install the wall anchor on the opening and secure the climbing fan to the wall with four screws. If installed on a wooden frame, install rims or meshes on the existing climbing space vents and secure the climbing space ventilator screws, washers and nuts to the four corners of the fan metal panel.



4. If the mounting board needs to be modified to accommodate important openings, the following trimming advice should be followed: be careful when trimming the mounting board to avoid damage to the power cord.

## Instructions



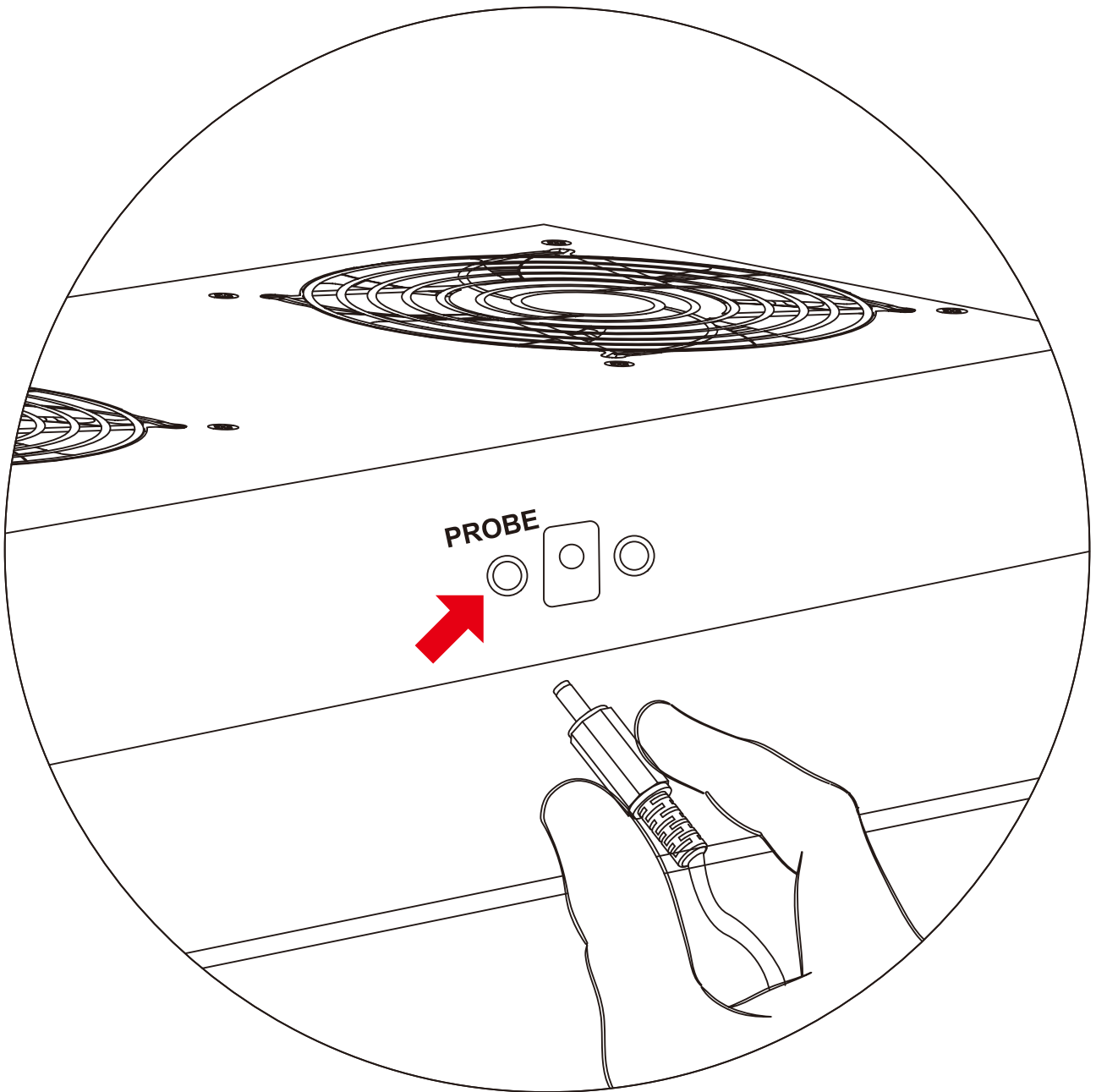
**Energy  
saving**

**Health**

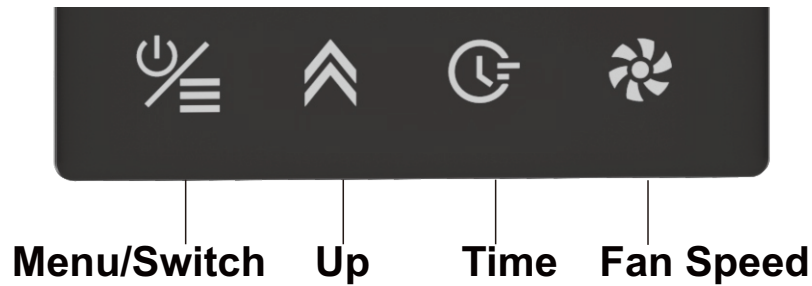
**Safety  
protection**

**Intelligent  
control**

1. Insert the connector of the temperature and humidity probe into the designated port located at the bottom of the fan unit.



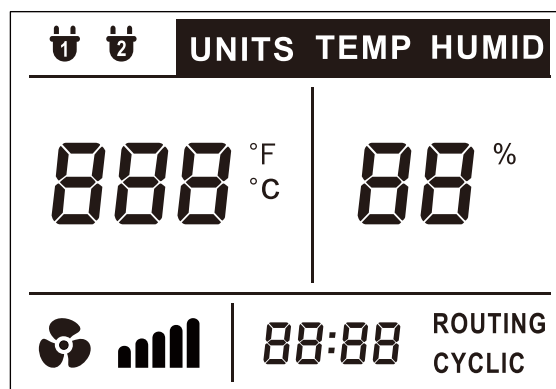
2.Plug the plug of the active power adapter into the Jack located at the bottom of the controller.



1. **“Power/Menu” Button:** Press this button for 3-5 seconds to turn the unit ON/OFF. Each time you press the menu button once, it will select the next menu (Units, Temp, Humidity).
2. **“Up” Button:** Press this button to increase the given value upward.
3. **“Time” Button:** Pressing this button the first time will set the ROUTING, which means the running time. Pressing this button a second time will set the CYCLIC, which means standby time. You can increase the running and standby time with the **Up Button**.
4. **“Fan Speed” Button:** Press this button to adjust the fan speed from 1-5. Press this button for 5 seconds to start the automatic humidity/temperature adjustment.

### LCD Display:

1. When the fan is powered on but not working: ("Beep" when powered on)
  - a) Enter the following interface after powered on.





## Screen

### Values on Screen:

Shows the fan icon and remove, the sensor's °F /°C, temperature, humidity temperature, timer, °F /°C.

### Icon including:

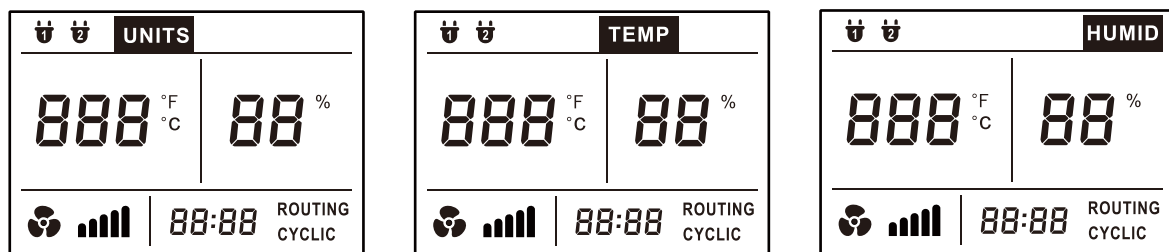
①Host, ②Host;

### Menu:

Units Menu Temperature Menu, Humidity Menu;

### In Units Menu, Temperature Menu, Humidity Men

If there is no button action for 5 seconds, the device will operate according to the set parameters. Cycle through the different menu icons by pressing the **Power/Menu Button** once each time and use the **Up Button** to adjust the value within the selected menu. (Figure 2-1)



(2-1)

*When the equipment is running, press any key without interrupting the operation of the equipment. After obtaining the new setting parameters, it will run according to the new parameters.*

### (a) Fan icon:

Runtime: Every bar means an increased fan gear, from 1-5.

Failure: When the bars disappear (make sure the unit is connected to power). The buzzer sounds intermittently and continuously; press any key to cancel the buzzer.

Blinking: When the fans are running.



Failure



Runtime: Displays the fan gear bars and fan icon.

## Humidity/Temperature icon

Runtime: Display the humidity and temperature;

Failure: The temperature will display " - - ", humidity will display " - - % ". The buzzer sounds intermittently and continuously, press any key to cancel the buzzer.

## (b) Time icon

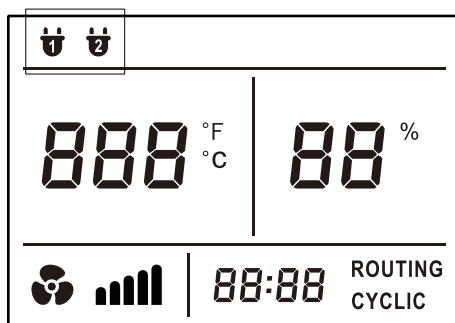
Lights up when the runtime mode and the cycle/standby mode are running and is displayed according to the set time as it gradually decreases.

Runtime Mode: ROUTING Light Shown

Cycle/Standby Mode: CYCLIC Light Shown

## (c) Symbol icon module:

1. ①,② Host icon: Corresponding to No.1 large 4 Pin interface and No.2 large 4 Pin interface. The corresponding icon lights up when inserted, and hides when not inserted.



(1-5)

## 1. Temperature Unit Mode:

Press the **Power/Menu Button** once to enter the temperature unit mode and press the **Up Button** to change the temperature mode between Fahrenheit (°F) and Celsius (°C).

## 2. Temperature Adjustment Mode:

Press the **Power/Menu Button** a second time to enter the temperature adjustment mode and press the **Up Button** to set the desired temperature that the unit will run up to (from 37° - 176° Fahrenheit). **\*NOTE:** For the unit to begin operation, the set temperature level on the unit must be below the detected room temperature. \*

## 3. Humidity Adjustment Mode:

Press the **Power/Menu Button** a third time to enter the humidity adjustment mode and press the **Up Button** to set the desired humidity level that the unit will run up to (from 1 – 99% Humidity). **\*NOTE:** For the unit to begin operation, the set humidity level on the unit must be below the detected room humidity. \*

## Troubleshooting:

- a) If you want to reset the ROUTING runtime and CYCLIC standby time, unplug the active power adapter. Wait until the fans have stopped and then plug it back in.
- b) To put the unit into CO (continuous operation) mode, unplug the humidity sensor probe. When the humidity sensor probe is disconnected, the unit will show dashes on the temperature and humidity screen.

## Warranty clause

Upon receipt of the goods, the customer must log in to [www.abestorm.com](http://www.abestorm.com) to fill in the warranty registration form and submit it to **ABESTORM**.

We will receive your purchase and installation information and save it.

If the warranty registration is not sent to us, the warranty period will begin from the date the goods leave the warehouse.

Be sure to record the serial number and installation date.

You will need this information to receive the RA number.

The product has a shelf life of two years.

If warranty service is required, the customer must contact

Technical support at [sales@abestorm.com](mailto:sales@abestorm.com) or local technical service phone number **(888)276-9833, Monday through Friday (8:00-17:00PST)**.

To obtain a return authorization (RA number).

When **ABESTORM** receives the equipment (whether in the maintenance center or in the warehouse), **ABESTORM**, it will carry out the initial inspection.

The warranty claim is determined to be invalid, the customer must pay all related maintenance costs and transportation costs for unit maintenance.

Warranty plan does not cover abuse or misuse.

This includes physical damage, product immersion, incorrect installation (such as incorrect voltage input), and misuse for any reason other than the intended purpose.

**ABESTORM** shall not be responsible for any indirect loss or incidental damage of any nature caused by the product.

From the date of replacement, new equipment will be provided to the customer during the warranty period of the same year.

After parts are repaired or replaced by **ABESTORM**, the original warranty will continue to apply until the due date.

**IMPORTANT NOTICE:** Keep the item's packaging in case warranty service is required.



**ABESTORM**