Note: This product is intended to be installed by experienced professionals only.

General Overview

Thank you for purchasing the ION® Fresh & Clean Ventilation System. Take the time to read the instructions carefully before using this unit. We strongly recommend that you keep this instruction manual in a safe place for future reference.

The ION® Fresh & Clean Ventilation System must be installed in the lowest, coolest level of the building/home.

Install on an outside wall of the building/home that will accommodate a 6” exit hole to the exterior where no electrical wires or pipes are present.

The minimum distance to any combustion appliance (furnace, hot water heater, gas dryer, etc.) must be at least 8 to 10 feet.

Maximize the distance between the unit and your replacement air source . This could be your stairwell or opening to the upper level

Do not leave furniture or boxes too close to the wall in your basement/lower level as this could hamper airflow and increase the possibility of mold developing.

Ensure the air from the upper level of the building/home can reach the unit in the lower/basement level. An 80 sq. in. communication hole between the two levels is recommended. Air circulation can be achieved by any of the following;

- 8” x 10” floor grill
- Cut 1 1/2” off the bottom of the basement/lower level door
- Install a louvered door
- Simply leaving doors open

Components

Before installing your ION® Fresh & Clean Unit make sure you have all the right components for proper installation. Make sure the total length of the unit is taller than your foundation wall.

The following items should be included in the box. If parts are missing, contact our customer service at (800) 844-2713

- Galvanized 6” x 12” pipe
- 6” flex exhaust tube
- 2 cable ties
- 10 plastic 9 x 30mm anchors
- 10 screws 3.5 x 30mm
- 10 screws 4.2 x 10mm
- 12 screws 2.9 x 10mm
- 1 Outside vent cover
- 1 ION® Fresh & Clean Ventilation System
  Tall Chute (basement unit only)
  Short Chute and Fan (crawlspace unit only)

Supplies Needed

- Electrical reciprocal saw or 6” diameter hole saw (6 1/4” hole saw may be used)
- Electric drill
- 1/4” concrete drill bit or 6” core bit assembly
- Screwdriver
- Measuring tape
- Duct tape
- Hammer
- Tin snips
- 1 tube of clear silicone caulk
- Level

Technical Data

Component	Height	Width	Depth
Chute - Basement	44” to 74”	12”	2.5”
Chute - Crawlspace	21” to 31”	12”	2.5”
Base Unit	10.5”	22”	7”
Cap Flange	7”	12”	2.5”
Fan	6”	11.25”	4.5”

Part # 0060005010

Part # 0060005005

System

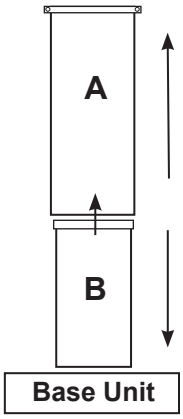
- 110 volt
- .3 amp
- 31 watts
- Air flow 139 cfm
- Weight 29 lbs
- Single phase
- Service area up to 7500 sf

Unit Assembly

Attach base unit to wall using included template. After attaching base unit to wall, assemble chute.
Slide the telescoping chute (A) over the base unit bottom chute (B) bottom chute section attaches directly to base. This unit's base should be resting on the floor. Install 4 screws, two in each side to secure the chutes to the base unit motor.

Insert chute B into chute A with flange side up. This will give an air-tight fit.

Attach chute B (no flange edge) to base unit.



Vent Preparation

Consider installation location of outside vent. Do not install under deck and avoid studs, electrical wires and pipes. NOTE: Make sure the hole location is above ground.

From the inside drill a pilot hole approximately 1/4" at the center of the proposed vent hole making sure your inside and outside location measurements match.

Outside the building, locate the pilot hole and drill a 6" hole through the exterior of the building. To insure a clean hole when drilling into wood or siding, reverse the direction of the saw at the beginning of the cut.

Installation

From the inside, slide the beaded end of the galvanized pipe through the 6" outside hole so that it sticks out a couple of inches. Once this is done, slide the flex exhaust tube onto the galvanized pipe. Stretch the flex exhaust tube and cut the excess off (if this is not done the efficiency of the unit will be drastically diminished). Now that the flex exhaust tube is tight, it can be attached to the beaded pipe with the tie wrap. We recommend wrapping this seam where the pipe and flex exhaust tube meet with duct tape to ensure an airtight seal. Then from the outside, attach the vent to the 6" beaded pipe with screws provided. Hold the pipe from the inside to ensure that the screws will go through the galvanized pipe rather than bend it. Avoid pushing against flaps. The flex exhaust tube should not be kinked in any way.

Secure the outside vent by using the 4.2cm screws Make sure the vent is not twisted by inserting the screws too tight, and that the flaps are working properly. Apply clear silicone caulking to act as a weather seal.

figure 1

figure 2

Fasten chute and cap flange to the wall by first marking where the holes for securing the unit are to be drilled. Move the unit to the side and drill ¼" pilot holes where you marked. Use a level to make sure the holes are even. Insert the enclosed anchors into the holes, and slide the unit back into place. Insert the screws through the unit's holes into the anchors and secure it to the wall. If attaching to paneling or drywall, screw directly to the surface.

Controls

The ION® Fresh & Clean unit continuously monitors the humidity level of the air being expelled through the unit. You can set this control to maintain the desirable level of humidity in your home/building by scrolling the up/down keys.

For best results: Set the humidistat between 35% to 40%.

Unit is designed for continuous duty if these levels cannot be satisfied due to environmental conditions. The rate at which you expel the damp air outside is adjustable with the help of the fan speed control.

The unit will turn off when the humidity level is 5% lower than the setting on the humidistat. During the cooler months, you can set the fan on low and the humidistat to its lowest setting. The low speed will prevent cold air from entering your home/building and still allow ventilation, removing indoor pollutants.

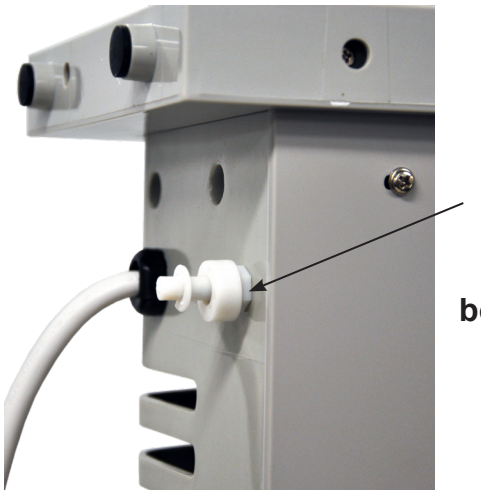
To achieve the best results, set the fan speed in the summer to medium/high and in the cooler months to medium/low.

Now you are ready to plug in the unit. The ION® Fresh & Clean unit can be plugged into any 110V electrical outlet. If the cord is not long enough to reach your nearest outlet, an extension cord may be used since the unit only draws approximately .34 amps (the equivalent of a 40W light bulb).

Fan Safety Switch

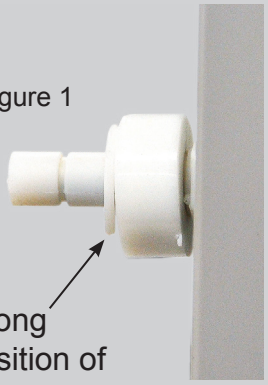
The Fan Safety Switch is made to turn unit off if damaged or knocked over. If the C-ring is not positioned correctly (figure 1), the float will not be able to move and unit will malfunction.

For unit to work properly, the C-ring on the Fan Safety Switch must be in the correct position (figure 2) allowing for free movement of the float (figure 3).



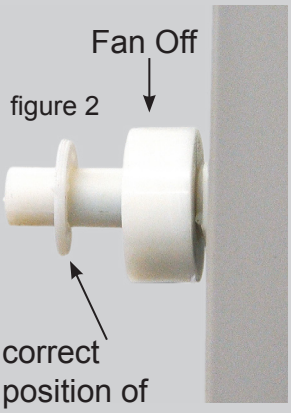
Fan Safety Switch (located on bottom of unit)

figure 1

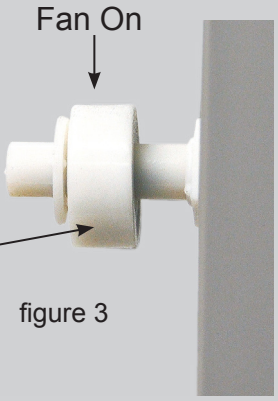


wrong position of C-ring

figure 2



correct position of C-ring



When the C-ring is positioned correctly it allows for free movement of the float

figure 3

Caution

The minimum distance to any combustion appliance (furnace, hot water heater, gas dryer, etc.) must be at least 8 to 10 feet.

Do not store boxes or place furniture within a radius of 3 to 4 feet around the base of the ION Fresh & Clean ventilation unit. This will prevent interference with good air circulation at floor level.

Maintenance

The minimum distance to any combustion appliance (furnace, hot water heater, gas dryer, etc.) must be at least 8 to 10 feet.

Do not store boxes or place furniture within a radius of 3 to 4 feet around the base of the ION Fresh & Clean ventilation unit. This will prevent interference with good air circulation at floor level.

A periodic vacuuming of the dust accumulation at the intake grills (at the bottom front of the unit) is the only maintenance needed.

Notes

3 Year Residential Warranty

1. Coverage and Term. Metropolitan Industries, Inc. ("**Metropolitan**") warrants to the original purchaser (the "Buyer") of each Ion|StormPro product (the "product"), that any part thereof which proves to be defective in material or workmanship within three (3) years from date of manufacture, will be replaced at no charge with a new or remanufactured part, F.O.B. factory. Buyer shall be responsible for all freight charges and all costs of field labor or other charges incurred in the removal and/or reinstallation of any product, part or component thereof.

2. Exclusions. **THE WARRANTY IS SUBJECT TO THE FOLLOWING CONDITIONS AND EXCLUSIONS:**

(a) The Warranty excludes products or workmanship which becomes defective as a result of: (i) earthquake, fire, storms, the elements or any other acts of God; (ii) normal wear and tear from use; (iii) accident, misuse, abuse or neglect; (iv) modifications made by Buyer or any third party, other than **Metropolitan**; and (v) Buyer's failure to properly install, maintain, service and/or operate the product under normal conditions and according to manufacturer's instructions.

(b) **Metropolitan** shall not be responsible for, and the Warranty shall not cover, extended damage which occurs because of Buyer's failure to notify **Metropolitan** promptly in writing of apparent defects.

(c) Any part or component designated as manufactured by anyone other than **Metropolitan** shall be covered only by the express warranty of the manufacturer thereof.

(d) The Warranty shall lapse upon Buyer's failure to fully comply with the terms and conditions of its contract with **Metropolitan**, including Buyer's failure to pay the purchase price for the product or any portion thereof. Buyer's subsequent compliance with the terms and conditions of any such contract, will not cause the term of the Warranty to extend beyond the time period set forth above.

(e) No actions taken by **Metropolitan** to correct a defect in a product shall extend the Warranty beyond the period set forth above. **Metropolitan** shall not be obligated to remedy any defect, where otherwise required pursuant to the Warranty unless and until Buyer notifies **Metropolitan** in writing of the defect and then only if such notification is made prior to the expiration of the period set forth above.

3. Process of Claims and Repairs. **Metropolitan** agrees that if the product or any part or component thereof shall fail to conform to the terms of this Warranty, **Metropolitan** shall replace such nonconforming product, part or component at the original point of delivery and furnish instruction for its disposition. Any transportation charges involved in such disposition and all costs of field labor or other charges incurred in the removal and/or reinstallation of any product, part or component thereof shall be the responsibility of Buyer.

4. Limitation on Liability. Notwithstanding any provision to the contrary, **Metropolitan's** entire liability under this Warranty shall not in the aggregate exceed, and Buyer's exclusive and sole remedies are, to the extent permitted by law, shall be to secure replacement of the defective product. **UNDER NO CIRCUMSTANCES SHALL METROPOLITAN BE LIABLE UNDER THE WARRANTY FOR ANY INDIRECT, PUNITIVE, SPECIAL, EXEMPLARY, CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING LOST PROFITS, REVENUE, USE OR ECONOMIC ADVANTAGE).**

5. Express Waiver of Any Other Warranties. **THE EXPRESS WARRANTY SET FORTH IN THIS WRITTEN WARRANTY IS THE ONLY WARRANTY MADE BY METROPOLITAN, OR ANY OTHER PARTY, IN CONNECTION WITH ANY PRODUCT PURCHASED FROM METROPOLITAN. NEITHER METROPOLITAN, NOR ANY OTHER PARTY, MAKES ANY OTHER EXPRESS OR IMPLIED WARRANTY WHICH IS NOT SET FORTH HEREIN, AND METROPOLITAN HEREBY DISCLAIMS AND BUYER HEREBY WAIVES ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.**

6. Not Transferable. The Warranty may not be transferred and shall be void on the sale or other transfer of the product.

7. Products and Warranty Subject to Change. **Metropolitan** reserves the right to make revisions to its products and their specifications, and to revise this Warranty and related information without notice.