

accurasee mechanical

MADE IN CANADA

VENTILATION UNIT

MINT

User Manual

We aim to provide our customers with exceptional niche products that are superior to alternative options.

Our products are handcrafted and built with respectful cognizance of sustainability and quality.

Please kindly contact us if there are any issues or errors in the User Manual.

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Introduction

The User Manual simplifies the installation and operation of the product. The careful observation of the points that are laid out in the User Manual will ensure that the product works in accordance with the intention of the manufacturer. The Terms and Agreements that are set forth shall be invalidated if the instructions that are presented in the User Manual are not observed.

ICON KEY

- Warning
- Note
- Caveat

Product Description

The product is a thermal energy recovery ventilator which is housed in a compact and attractive cabinet enclosure. The ventilation unit is developed to supply filtered fresh air into a building space, passively condition the air that is supplied to the space, and simultaneously expel stale air and contaminants from the same space.

The external and internal parts of the product are visually depicted in Figures 1 and 2, respectively.

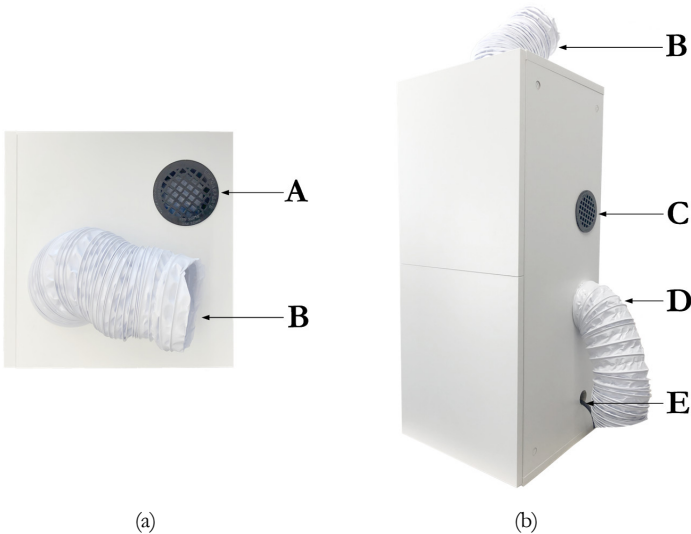


Figure 1. The external (a) top and (b) axonometric views of the ventilation unit. The legends A to E are defined in Table 1. The approximate external dimensions of the product are 30 in × 12 in × 12.5 in (76.2 cm × 30.5 cm × 31.8 cm). The actual product that is received by the customer may slightly differ from what is shown in Figure 1. Note. Figure 1 is not drawn to scale.

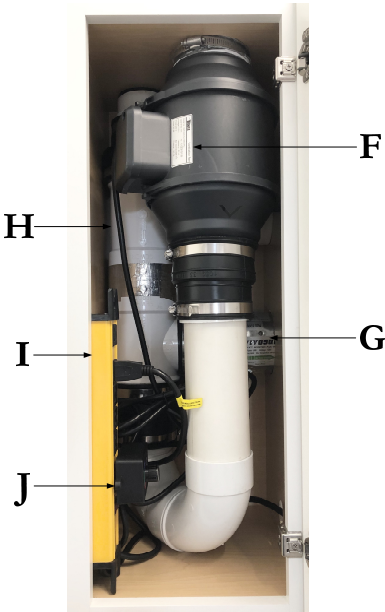


Figure 2. Internal parts of the ventilation unit. The legends F to J are defined in Table 1. The actual product that is received by the customer may slightly differ from what is shown in Figure 2.

The parts of the product that have been identified with the legends A to J in Figures 1 and 2 are defined in Table 1.

Table 1. Parts of the ventilation unit.

Legend	Part	Reference Figure
A	Supply vent	Figure 1(a)
B	Supply duct	Figure 1(a) and (b)
C	Exhaust vent	Figure 1(b)
D	Exhaust duct	Figure 1(b)
E	Power supply cord	Figure 1(b)
F	Supply fan	Figure 2
G	Exhaust fan	Figure 2
H	Air-to-air exchanger	Figure 2
I	Power bar	Figure 2
J	Supply fan controller	Figure 2



Warning

The following warnings must be exactly observed:

- Failure to comply with the warnings may result in fire, property damage, electric shock, injury, or death.
- To prevent suffocation, electric shock, injury or death, the customer is responsible to ensure that children shall NOT access the product.
- The product shall not be modified, disassembled or serviced.
- The product shall be shut down if the outdoor air temperature exceeds 35°C or 95°F.
- The vents (**A** and **C**) of the product shall NOT be blocked.
- The enclosure shall not be opened when the product is powered.
- The electrical parts of the product shall not be touched even if the product has been shut down. The electrical parts are the fans (**F** and **G**), power bar (**I**), and supply fan controller (**J**).
- As soon as possible, the power supply cord (**E**) shall be safely disconnected from the wall power or electrical mains if liquid spills on or around the product.
- The power bar (**I**) shall only be connected to an electrical receptacle that is permanently installed in a building.
- The power bar (**I**) shall not be connected to a relocatable power tap.
- There shall be no connection of any external devices to the power bar (**I**).
- The cables of the fans (**F** and **G**) shall not be disconnected from the power bar (**I**).
- The supply fan controller (**J**) may not be arbitrarily adjusted in order not to disrupt the calibration of the product.

NOTE

The manufacturer supplies third-party locks that the customer may install to shut the door of the enclosure.

NOTE

If applicable, an indicator may be affixed to the supply fan controller (**J**) on a parallel axis to the nominal position of the controller knob.

Installation

The following points shall be strictly observed when installing the product:

- The product shall not be installed near hazardous or toxic materials.
- The product shall only be installed in either vertical or horizontal orientations and shall not be positioned at an oblique angle.
- For vertical orientation, the supply vent (**A**) shall face upwards as indicated in Figure 1(a). There is no restriction on the horizontal orientation of the product provided the exhaust vent (**C**), exhaust duct (**D**), and power supply cord (**E**) are not obstructed.
- The product may be placed on the floor or a sturdy table. Professional help may be needed to install the product on a wall.
- The vents (**A** and **C**) and ducts (**B** and **D**) shall NOT be connected to external appliances such as dryers, fans, furnaces, etc.
- The product shall be installed in the conditioned space of a building where the temperature and relative humidity of air are within the range of 22°C – 24°C and 35% – 50%, respectively.
- The product shall not be powered until the ducts (**B** and **D**) are installed.
- A ventilation kit (not bundled with the product) is needed to install the two ducts (**B** and **D**) such that air can securely and simultaneously be supplied to and expelled from the building space.
- The ventilation kit can interface with the outdoors through a window, door or wall as illustrated in Figure 3. The customer is responsible for complying with all applicable codes and regulations.
- To power the product, connect the plug of the power supply cord (**E**) to the wall power (~120V AC, ~60Hz). To shut down the product, disconnect the power supply cord (**E**) from the wall power.

NOTE

The product shall not be installed at a location where there is probable contact with liquids.

NOTE

The product shall be carefully positioned such that it may not trip and cause property damage or bodily injury.

NOTE

The product shall not be installed at a location where there is excessive heat or exposure to direct sunlight.

NOTE

The ports of the ventilation kit shall be 4 in (~10.2 cm).

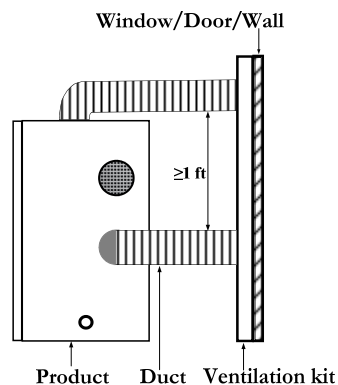


Figure 3. Installation of the product.

RECOMMENDATIONS

- Screens (not bundled with the product) shall be attached to the ports of the ventilation kit to prevent the encroachment of animals that can damage the product or constitute hazard to the building occupants.
- A minimum separation distance of 1 ft is recommended between the supply and exhaust ducts.
- The ducts (B and D) shall be installed without any bends that may impede the flow of air.
- The ducts (B and D) shall be insulated to minimize energy losses.

Maintenance

A few activities may be performed during the course of using the product.

The product shall be shut down before any maintenance activity is performed.

Filter

It is recommended to change the filter in the supply vent (A) at least once in three months depending on the outdoor air quality. The procedure for changing the filter is presented as follows.

- To remove the old filter in the supply vent (A):
 - Shut down the product;
 - Open the door of the enclosure;
 - Locate and hold the air-to-air exchanger (H) firmly with one hand;
 - Carefully twist and pull out the supply vent (A) with the other hand.

NOTE

Excessive force shall not be applied when replacing the filter in the supply vent (A).

- Remove the filter in the supply-vent (A) port and replace it with a new filter.
- To reinsert the supply vent (A):
 - Clean the vent (A) with a paper towel that is moistened with isopropyl alcohol;
 - Use one hand to hold the air-to-air exchanger (H) and ensure that it lines up with the port of the supply vent (A) at the top of the enclosure;
 - Use the other hand to insert the supply vent (A) into the port until it is flush with the top surface of the enclosure.

Duct

A damaged duct can be replaced by using a similar duct with a diameter of 4 in (~10.2 cm).

The following steps can be followed when changing a duct:

- Shut down the product;
- Loosen the nuts of the clamp of the damaged duct;
- Remove the damaged duct from the port of the appropriate fan;
- Attach a new duct to the port of the appropriate fan;
- Tighten the nuts of the clamp.

NOTE

Do not apply excessive force when tightening the clamp.

Electrical Parts

An electrical part (F, G, I, and J) shall only be replaced if it is faulty. In this situation, the product shall be shut down and a qualified service technician may be consulted.

Caveat

The product that is described in this manual is built to ensure the safety of the customer. Nevertheless, the manufacturer declares that the product is not ready for use, installation, or operation without electrical certification or field inspection. The manufacturer explicitly emphasizes that the product is sold “as is” and is not fit for use in its present state without compliance with applicable regulations and codes. By purchasing the product, the customer fully and willingly accepts to bear the responsibility to certify the product, if necessary, before it can be installed or operated in their jurisdiction. Consequently, the manufacturer is not liable to all forms of contract or tort, whether direct or indirect without any limitation, if compliance or enforcement of a lack of compliance is required by the Authority Having Jurisdiction where the product is purchased and/or installed.



NOTE

The air-to-air exchanger (H) shall not be washed.

NOTE

A filter shall not be installed in the exhaust vent (C).

Terms and Agreements

The product is protected by intellectual property and shall not be reverse-engineered, imitated or copied except under an approved licensing agreement with the manufacturer.

Return Policy

- Please check the return policies of the online merchant(s) and store owner(s) from whom the product was purchased.

NOTE

The manufacturer provides a limited warranty for the product that is subject to a Disclaimer.

Disclaimer

- The limited warranty does not apply to defects that are caused by normal wear and tear, normal corrosion, and normal failure that ensue from the operation of electrical or mechanical devices.
- The limited warranty does not extend to products that have been subject to misuse, neglect, abuse, alteration, testing, improper installation, improper storage, improper maintenance, improper handling during shipping, unauthorized attempts to repair, accident, fire, lightning or other hazard, and damage by current, temperature, physical stress, and deviation from the environmental specifications of a conditioned space that is stated in the User Manual.
- The limited warranty does not extend to products that have been modified, disassembled, serviced, or reassembled by a third party.
- The limited warranty is exclusive and in lieu of all other warranties, expressed or implied, including, without limitation, any warranty of merchantability or fitness for a specific purpose. Without limiting the generality of the foregoing, the manufacturer disclaims any other claim against the manufacturer (whether arising by operation of law or otherwise), including any claim or liability for special, indirect or consequential damages of any kind relating to or arising out of the product or any part thereof.
- The manufacturer's obligation is limited to repair or replacement, at the option of the manufacturer, of any product determined to be defective in workmanship or material during the applicable warranty period, subject to the fact that the warranty:
 - Covers the air-to-air exchanger (**H**) for a maximum period of five years from the date of purchase by the customer;
 - Covers the electrical parts (**F**, **G**, **I**, and **J**) for a maximum period of one year from the date of purchase by the customer;
 - Covers the parts and labour;

- Does not cover the enclosure;
- Does not cover goods and services that are sourced from third-party and sold or delivered to the customer "as is".
- The warranty is subject to the fact that:
 - It is non-transferrable to another person, entity, or organization;
 - The original serial number of the product shall be present, intact, and undamaged;
 - Shipping, handling, and other applicable processing fees are not covered;
 - Labour will be charged if there is no fault in the product.
- The manufacturer neither assumes nor authorizes any person to assume for it any other liability in connection with the manufacture, sale, shipping, delivery, installation and operation of the product or any part thereof except as aforesaid.