

### **ENERGY RECOVERY VENTILATOR**

# ODD-ERV-120

#### HIGHLIGHTS

#### **Energy Recovery Ventilator with efficient cross-flow core**

- Brings a continuous supply of fresh air into the home while exhausting contaminated air
- · Equipped with automatic defrost mechanisms so you can use your ERV all year long
- Super Compact Size: 24 11/64 \* 26 13/16 \* 9 11/64 inches
- Includes Easy-Mount Bracket
- Washable Graphene Modified Polymer Membrance Energy Recovery Core
- Easy Access Service Door
- Estimated sound level is less than 1.6 Sones at 5 ft. in a free field conditions at continuous low speed\*
- Configurable motors for balancing | Push button timer switch
- Case: Galvanized steel/Pre-paint steel
- Insulation: Cabinet is fully insulated with high density expanded polystyrene
- Filter: Two (2) washable MERV 8 primary filters
- CSA standard C439-18 compliant





### **SPECIFICATIONS**

| FEATURES  |                       |  |  |  |
|-----------|-----------------------|--|--|--|
| Duct Size | 5"                    |  |  |  |
| Voltage   | 120V/60Hz             |  |  |  |
| Wattage   | 96W                   |  |  |  |
| Amp       | 1.32A                 |  |  |  |
| Airflow   | 117CFM@0.25"wg        |  |  |  |
| Fans      | 2 EC centrifugal fans |  |  |  |

#### **ENERGY RECOVERY CORE**

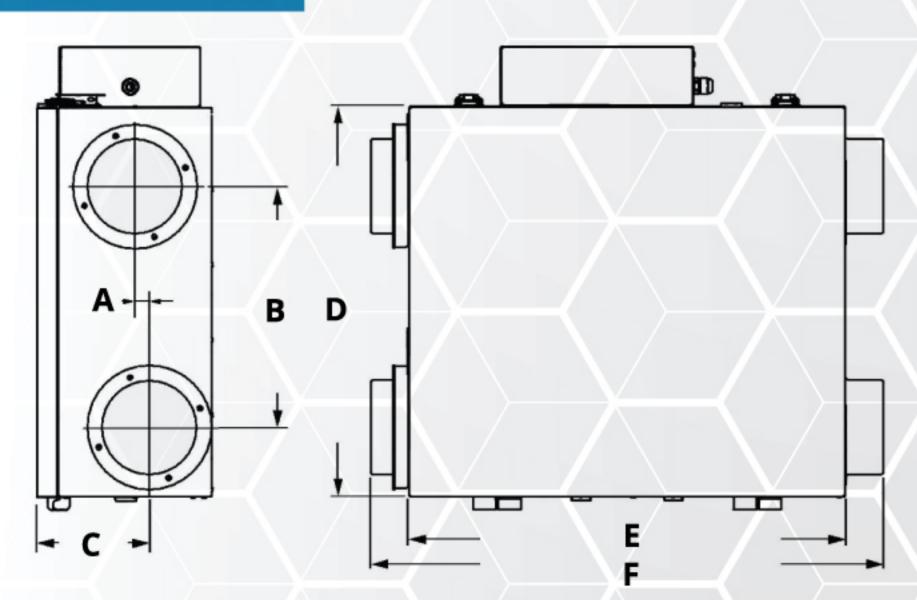
Graphene Modified Polymer Membrance Energy Recovery Core covered by a limited lifetime warranty. Core dimensions are 11 <sup>13</sup>/<sub>16</sub> x 11 <sup>13</sup>/<sub>16</sub> inches with a 7 <sup>1</sup>/<sub>4</sub> inches depth.

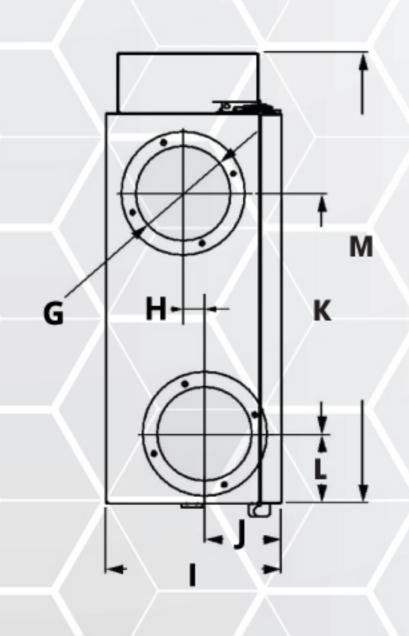
### **DEFROST**

The freeze protection function prevents freezing of the energy recovery core in the cold season. This function is activated automatically and cannot be turned on or off. The ventilation unit periodically switches from rated operation mode to the special defrost mode (the extract fan runs in high speed, the supply fan is off) and vice versa according to the signaling from the outdoor temperature sensor. The temperature conditions for this mode are described in the table below:

| Outside Te     | Defrost Cycle min./ |                |  |
|----------------|---------------------|----------------|--|
| °C             | °F                  | Operating min. |  |
| Warmer Than -5 | Warmer Than 23      | No Defrost     |  |
| -5 To -15      | 23 To 5             | 10/30          |  |
| -15 To -27     | 5 To -17            | 10/20          |  |
| -27 And Less   | -17 And Less        | 10/15          |  |

#### **DIMENSIONS**





- **A** 3/4" (19 mm)
- **B** 12-3/8" (315 mm)
- **C** 5-13/16" (147 mm)
- **D** 20-1/16" (510 mm)
- **E** 22-7/16" (570 mm)
- **F** 26-3/8" (670 mm)
- **G** Ø 4-7/8" (124 mm)
- H 1-1/8" (29 mm)
- **I** 9-1/16" (230 mm)
- J 3-15/16" (100 mm)
- K 12-5/8" (320 mm)
- L 3-9/16" (91 mm)
- M 23-1/4" (590 mm)

\*not tested under controlled environment







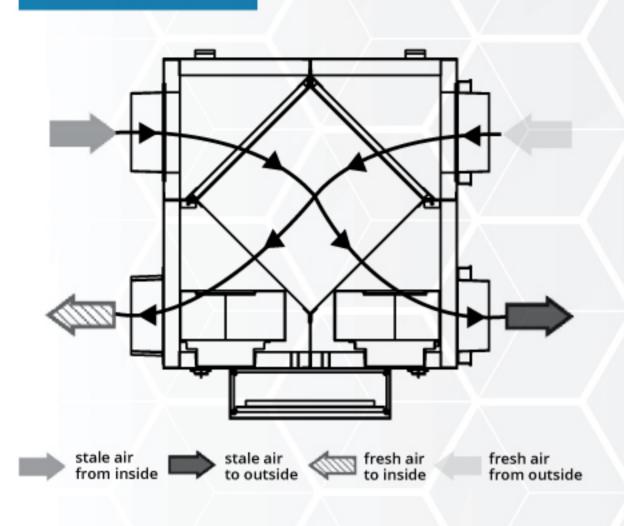




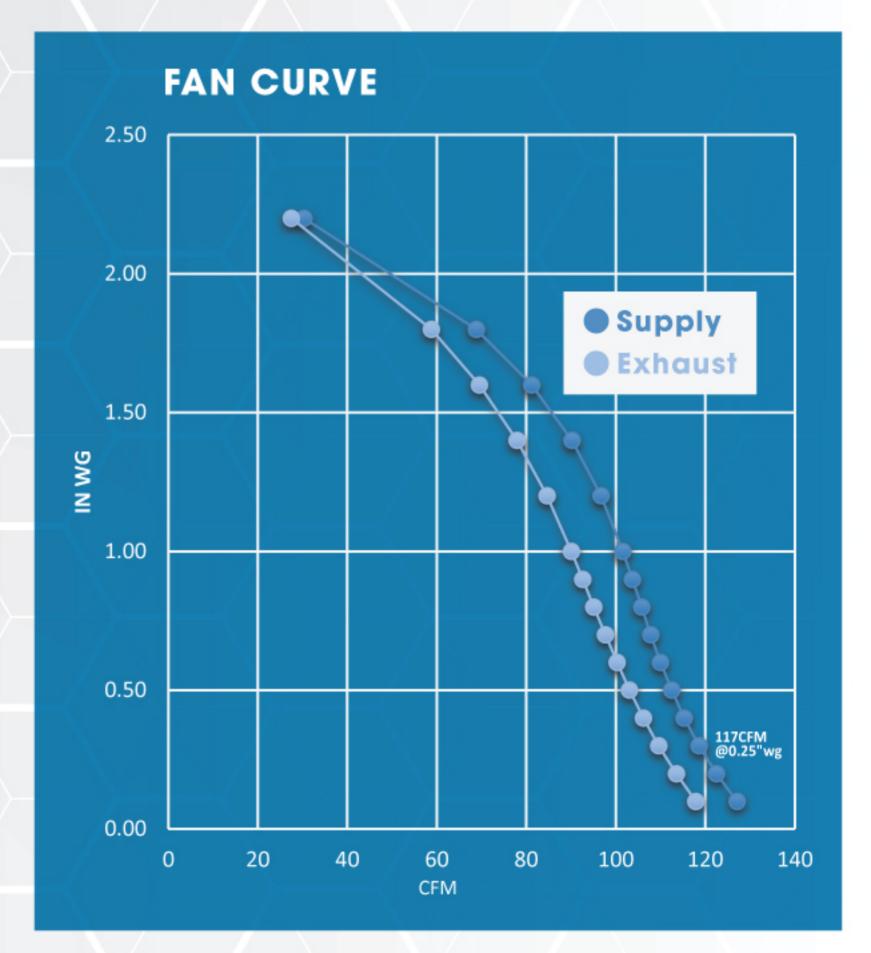
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### **AIRFLOW**



|                |               | <u> </u> |  |
|----------------|---------------|----------|--|
| EXHAUST<br>CFM | SUPPLY<br>CFM | IN<br>WG |  |
| 118            | 127           | 0.10     |  |
| 114            | 123           | 0.20     |  |
| 110            | 119           | 0.30     |  |
| 106            | 115           | 0.40     |  |
| 103            | 113           | 0.50     |  |
| 100            | 110           | 0.60     |  |
| 98             | 108           | 0.70     |  |
| 95             | 106           | 0.80     |  |
| 93             | 104           | 0.90     |  |
| 90             | 102           | 1.00     |  |
| 85             | 97            | 1.20     |  |
| 78             | 90            | 1.40     |  |
| 70             | 81            | 1.60     |  |
| 59             | 69            | 1.80     |  |
| 28             | 30            | 2.20     |  |
|                |               |          |  |



# **ENERGY PERFORMANCE**

| HEATING |     | PPLY<br>MP. | NET<br>AIRFLOW | AVERAGE<br>POWER | SENSIBLE<br>RECOVERY<br>EFFICIENCY | ADJUSTED SENSIBLE RECOVERY EFFICIENCY | APPARENT<br>SENSIBLE<br>EFFECTIVENESS | NET<br>MOISTURE<br>TRANSFER |
|---------|-----|-------------|----------------|------------------|------------------------------------|---------------------------------------|---------------------------------------|-----------------------------|
| i       | 0°C | 32°F        | 67.8cfm        | 32W              | 76.7                               | 80.1                                  | 82.2                                  | 0.63                        |
| ii      | 0°C | 32°F        | 97.2cfm        | 52W              | 70.6                               | 74.3                                  | 76.7                                  | 0.55                        |
| iii     | 0°C | 32°F        | 107cfm         | 66W              | 69.3                               | 73.4                                  | 75.4                                  | 0.53                        |
| iv*     | 0°C | 32°F        | 53cfm          | 24W              | 80                                 | 84                                    | 86                                    | / -                         |

| COOLING |      | PPLY<br>MP. | NET<br>AIRFLOW | AVERAGE<br>POWER | SENSIBLE<br>RECOVERY<br>EFFICIENCY | ADJUSTED SENSIBLE RECOVERY EFFICIENCY | APPARENT<br>SENSIBLE<br>EFFECTIVENESS | NET<br>MOISTURE<br>TRANSFER |
|---------|------|-------------|----------------|------------------|------------------------------------|---------------------------------------|---------------------------------------|-----------------------------|
| i       | 35°C | 95°F        | 66.1cfm        | 32W              | 65.9                               | 72.2                                  | 76.9                                  | 0.64                        |

# ACCESSORIES (sold separately)







**FAP** (Flush Access Panel)



(Mud Access Panel)



PAV-B (Polymeric Air Valve)



**SAV** (Supply Air Valve)

| Reference | QTY. | Remarks | Project:      |
|-----------|------|---------|---------------|
|           |      |         | Location:     |
|           |      |         | Architect:    |
|           |      |         | Engineer:     |
|           |      |         | Contractor:   |
|           |      |         | Submitted by: |
|           |      |         | Date:         |

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\*data based on linear Interpolation







