

ENERGY RECOVERY VENTILATOR

ODD-ERV-120R

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 Membrane 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
- Four (4) feet long 110V Electric Cord Standard (Removable for hard wiring)
- **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

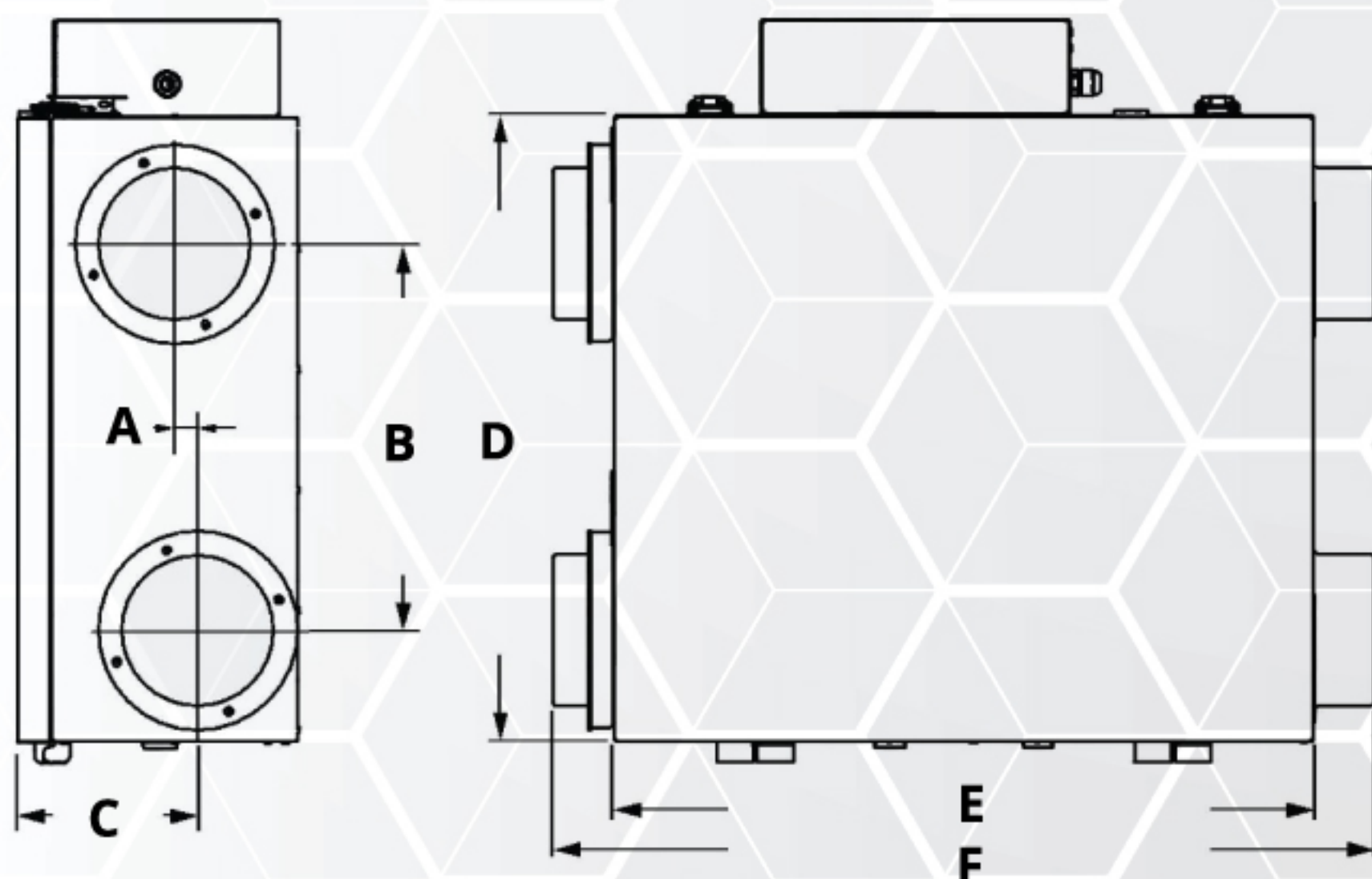
Graphene Modified Polymer Membrane Energy Recovery Core covered by a limited lifetime warranty. Core dimensions are 11 13/16 x 11 13/16 inches with a 7 1/4 inches depth.

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 Temperature		Defrost Cycle min./ Operating min.
°C	°F	
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



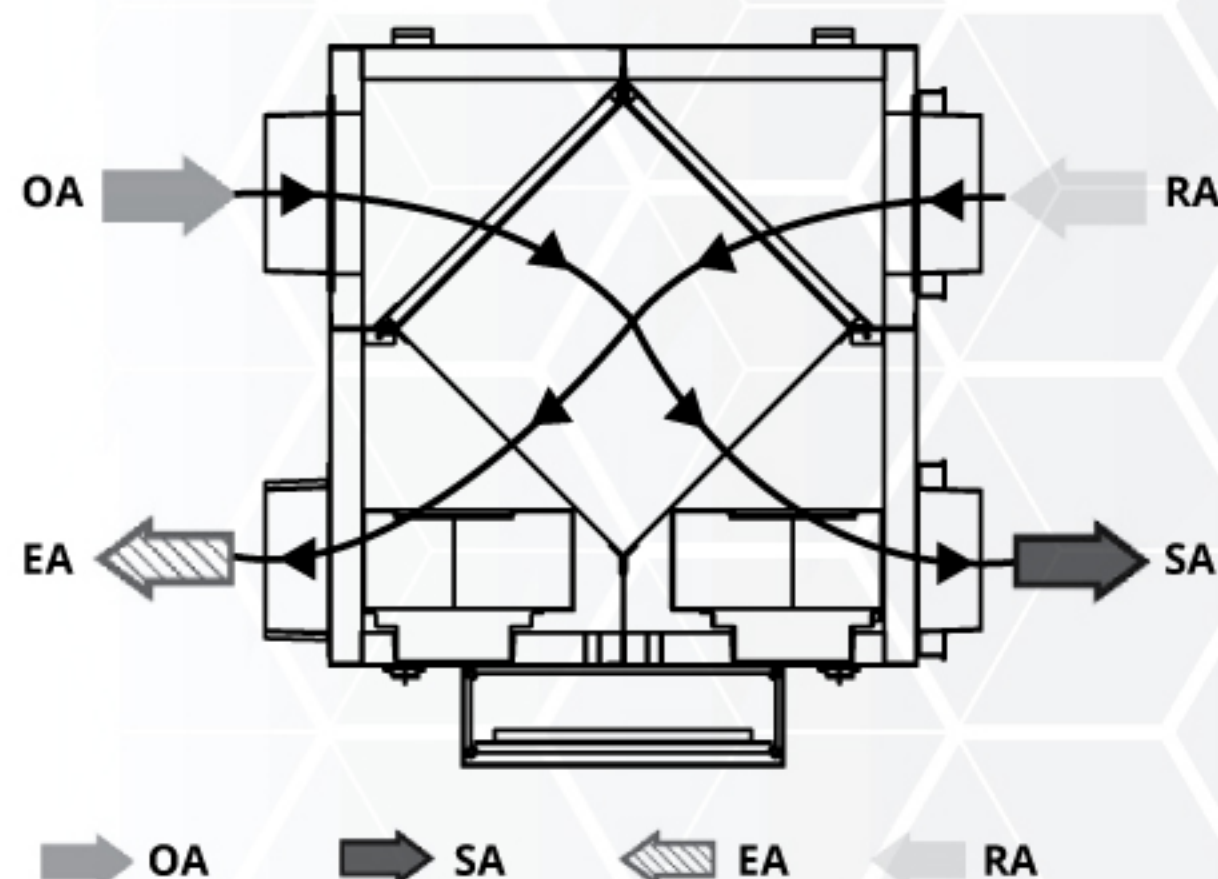
- A** 3/4" (19 mm)
- B** 12-3/8" (315 mm)
- C** 5-13/16" (147 mm)
- D** 20-1/16" (510 mm)
- E** 22-7/16" (570 mm)
- F** 26-3/8" (670 mm)
- G** Ø 4-7/8" (124 mm)
- H** 1-1/8" (29 mm)
- I** 9-1/16" (230 mm)
- J** 3-15/16" (100 mm)
- K** 12-5/8" (320 mm)
- L** 3-9/16" (91 mm)
- M** 23-1/4" (590 mm)

*not tested under controlled environment

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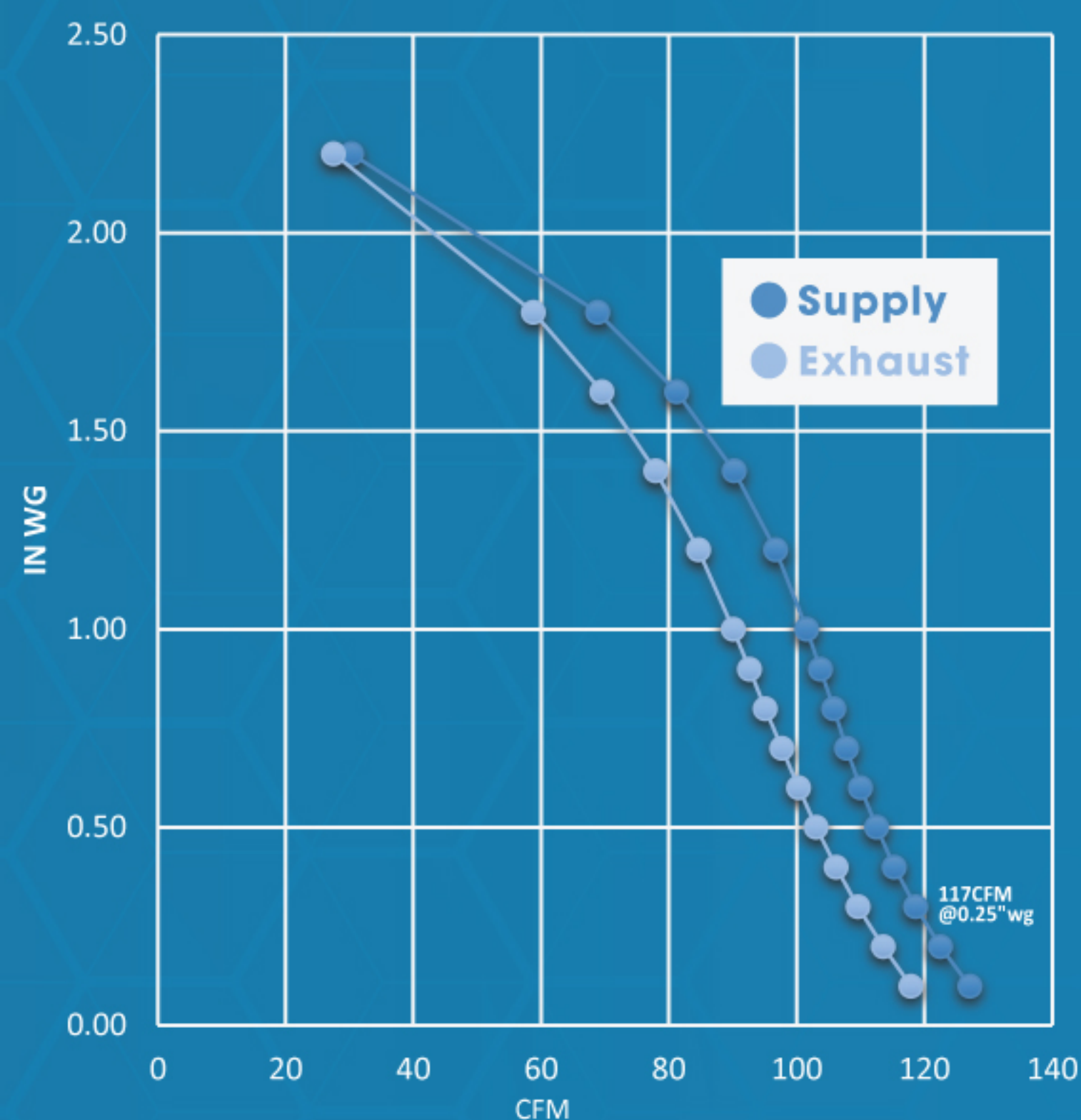
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AIRFLOW



EXHAUST CFM	SUPPLY CFM	IN 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

FAN CURVE



ENERGY PERFORMANCE

HEATING	SUPPLY TEMP.		NET AIRFLOW	AVERAGE POWER	SENSIBLE RECOVERY EFFICIENCY	ADJUSTED SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	NET MOISTURE 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	SUPPLY TEMP.		NET AIRFLOW	AVERAGE POWER	SENSIBLE RECOVERY EFFICIENCY	ADJUSTED SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	NET MOISTURE TRANSFER
i	35°C	95°F	66.1cfm	32W	65.9	72.2	76.9	0.64

ACCESSORIES (sold separately)



ODD-ERV Timer



FAP
(Flush Access Panel)



MAP
(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

