# HERO® 100E

## Energy Recovery Ventilator (ERV)

Product #: 525555


HVI CERTIFIED 2100

C SA US

ENERGY STAR

* This product earned the ENERGY STAR® by meeting strict efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR® requirements only when used in Canada.

| HERO | 100 | E |
|---|---|---|
| Product Name | Approximate CFM @ 0.4 in. wg. | Energy Recovery |

The HERO 100E is a high-performance energy recovery ventilator (ERV) designed for single-family and multi-family residential applications, including condominiums and apartments. Its counterflow enthalpy core achieves over 80% sensible recovery efficiency (SRE), transferring both heat and moisture. The top-port configuration supports stringent design requirements, while the drainless design simplifies installation and maintenance. An integrated internal damper enables recirculation for efficient defrosting.

**Features**

- 5 in. (125 mm.) round metal duct connections with rubberized duct seals
- Top-port, drainless design
- Counterflow energy recovery core
- Multiple speed operation
- Internal recirculation defrost
- Removable screw terminal for easy connection with external access
- Includes wall mounting ***speed*** **bracket**

**Specifications**

- Duct size – 5 in. (125 mm.) round
- Voltage/Phase – 120/1
- Power rated – 120 W
- Amp – 1.0 A
- Average airflow – 102 CFM (48 L/s) @ 0.4 in. wg. (100 Pa)
- Weight – 47 lbs (21 kg) including core

**Requirements and standards**

- UL 1812
- CSA C22.2 no. 113
- CSA F326
- Technical data was obtained from published results of test relating to CSA C439 Standards
- HVI (expected by July 2025) and ENERGY STAR® certified*

**Fans**

Two (2) factory-balanced fans with backward curved blades. Motors come with permanently lubricated, sealed ball-bearings to guarantee long life and maintenance-free operation.

**Energy Recovery Core**

Counterflow energy recovery core made from water vapor transport durable polymer membrane that is highly permeable to humidity. The ERV core is freeze tolerant and water washable. Core dimensions are 14.4 in. x 14.4 in. (366 x 366 mm.) with a 10 in. (255 mm.) depth.

**Defrost**

The unit incorporates a unique and quiet internal recirculation defrost that does not depressurize the home during the defrost cycle. A preset defrost sequence is activated when the outdoor temperature falls below 23° F (-5° C) and automatically adjusts itself based on operating conditions. The fan speed is also adjusted automatically to provide a smooth and quiet transition between Ventilation & Defrost mode.

**Serviceability**

Core, filters, fans and electronic panel can be accesses easily from the access panel. Core conveniently slides out with only 12 in. (305 mm.) clearance.

**Duct Connections**

5 in. (125 mm.) round metal duct connections with rubberized seal.

**Case**

22 gauge galvanized steel cabinet with a pre-painted steel corrosion resistant door.

**Insulation**

Cabinet is fully insulated with 3/4 in. (20 mm.) high density expanded polystyrene.

**Filters**

Two (2), UL900 certified, MERV 3, washable electrostatic panel type air filters 7 7/8 in. (200 mm.) x 9 13/16 in. (250 mm.) x 1/8 in. (3 mm.).

**Compatible Controls**

Compatible with all Fantech controls.

**Balancing and commissioning[1]**

Balancing must be completed using the Fantech ECO-Touch® Programmable Touch Screen Wall Control.

**Installation**

This appliance can be wall mounted using the mounting bracket or hung from the ceiling with the hanging chain installation kit.

**Limited Warranty**

7 years on motor, 5 years on electrical components and core.

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a systemair company

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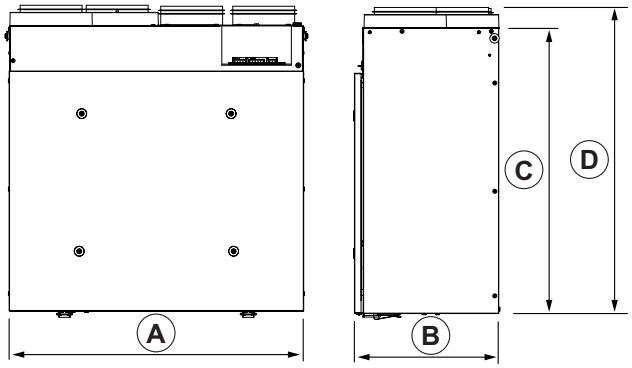
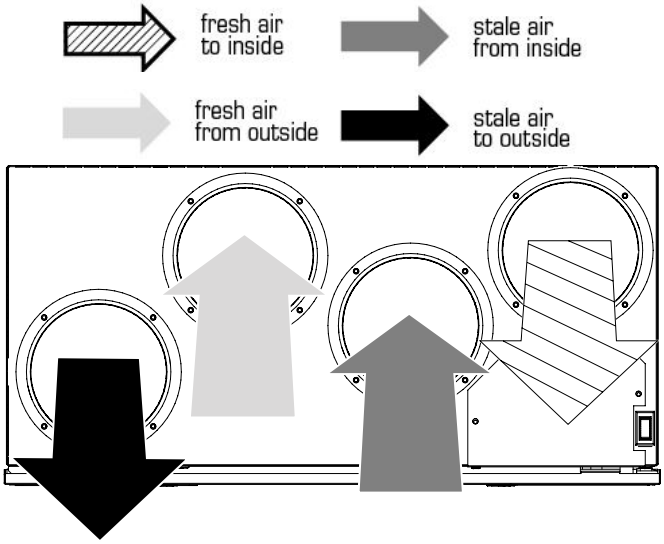
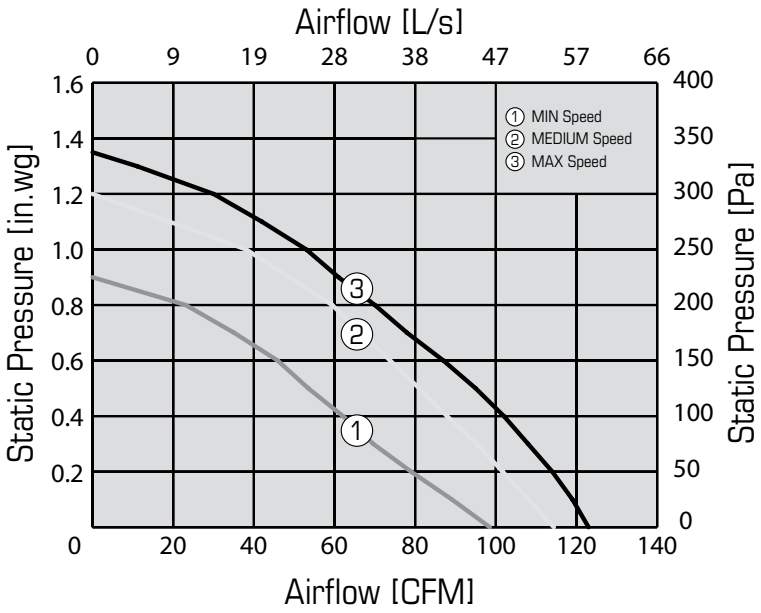
## Dimensions & Airflow




| A | | B | | C | | D | |
|---|---|---|---|---|---|---|---|
| in | mm | in | mm | in | mm | in | mm |
| 23 1/4 | 590 | 11 1/2 | 291 | 22 5/8 | 575 | 24 1/4 | 616 |

All units feature three foot plug-in power cord with 3-prong plug.




## Ventilation Performance

| in. wg. (Pa) | 0.1 (25) | 0.2 (50) | 0.3 (75) | 0.4 (100) | 0.5 (125) | 0.6 (150) | 0.7 (175) | 0.8 (200) |
|---|---|---|---|---|---|---|---|---|
| | CFM (L/s) | CFM (L/s) | CFM (L/s) | CFM (L/s) | CFM (L/s) | CFM (L/s) | CFM (L/s) | CFM (L/s) |
| Net supply airflow | 119 (56) | 114 (54) | 108 (51) | 102 (48) | 95 (45) | 87 (41) | 78 (37) | 70 (33) |
| Gross supply airflow | 123 (58) | 119 (56) | 112 (53) | 106 (50) | 100 (47) | 89 (42) | 81 (38) | 72 (34) |
| Gross exhaust airflow | 127 (60) | 121 (57) | 112 (53) | 106 (50) | 100 (47) | 91 (43) | 83 (39) | 74 (35) |

[1] Balancing Range : 40 CFM (19 L/s) to 100 CFM (47 L/s). If a balanced flow outside the above range is required, please revisit our product offerings to ensure a properly sized unit is selected.

## Energy performance

| | Supply temperature | | Net airflow | | Consumed Power | Fan efficacy | | Sensible recovery efficiency | Adjusted sensible recovery efficiency | Latent recovery/moisture transfer |
|---|---|---|---|---|---|---|---|---|---|---|
| | °F | °C | CFM | L/s | W | CFM/W | L/s/W | % | % | - |
| Heating | 32 | 0 | 42 | 20 | 42 | 1.0 | 0.47 | 82 | 88 | 0.79 |
| | 32 | 0 | 70 | 33 | 60 | 1.1 | 0.55 | 77 | 82 | 0.71 |
| | 32 | 0 | 117 | 55 | 91 | 1.2 | 0.60 | 70 | 75 | 0.63 |
| | -13 | -25 | 68 | 32 | 73 | 0.9 | 0.43 | 60 | 63 | 0.57 |

| | Supply temperature | | Net airflow | | Consumed Power | Fan efficacy | | Total recovery efficiency | Adjusted sensible recovery efficiency | Latent recovery/moisture transfer |
|---|---|---|---|---|---|---|---|---|---|---|
| | °F | °C | CFM | L/s | W | CFM/W | L/s/W | % | % | - |
| Cooling | 95 | 35 | 42 | 20 | 46 | 0.9 | 0.43 | 70 | 75 | 0.72 |
| | 95 | 35 | 117 | 55 | 98 | 1.1 | 0.56 | 57 | 61 | 0.56 |

## Contacts

Submitted by: Date:
Quantity: Model: Project #:
Comments:
Location:
Architect:
Engineer: Contractor:

## Distributed by: