



Energy Recovery Ventilator (ERV)

6" Duct (Standard)
30 to 120 CFM



Description

Substantial airflow in a mini Energy Recovery Ventilator with multi-speed control allows you to select the required airflow [30-120 CFM].

Motor/Blower

- Power rating of 120 volts/ 60Hz
- Manually boosted with running time
- Constant airflow blower designed to maintain the selected air flow in standard installations
- ECM motor engineered to run continuously
- Motor equipped with thermal cutoff fuse
- Removable with permanently lubricated plug-in motors
- Built-in soft start function to increase bearings' life
- Automatically powers OFF when impeller is locked abnormally

Housing

- Galvanized steel body
- Detachable 6" diameter plastic duct adapter
- Light weight with easy installation brackets
- Insulated housing prevents condensation and noise

Features

- Intuitive digital controller included
- MERV 13 filter included
- Twin motorized dampers for air tightness
- Four installation methods: wall mount, truss mount, chain mount, under ceiling mount
- HVAC interlock with removable wiring block
- ASHRAE 62 Run time function

Controls (Included)

- Fault indicator display (FID) for CA title 24
- Multi-speeds offer continuous ventilation

Defrost

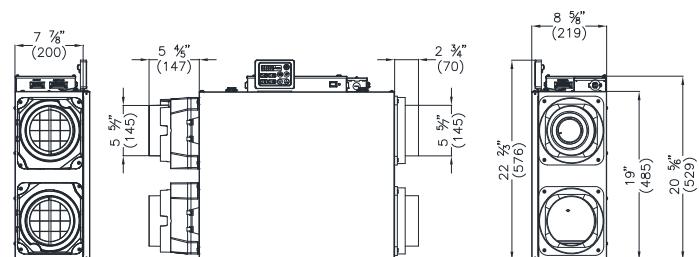
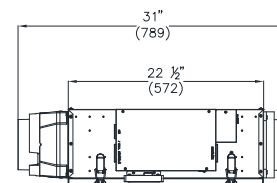
Auto defrost mode will start when the outdoor air temperature drops below 14°F (-10°C) to prevent the energy recovery core from clogging. After defrosting, the ERV will resume delivery of fresh air into house.

Typical Specification

Delta Breez ERV model VEB120S has ECM motor engineered to run continuously for a minimum 60,000 hours with airflow rating from 30 to 120 CFM. Housing is insulated to reduce condensation and noise. MERV 13 filter is a superior filter and required in many cases by code or IAQ program recommendations. Interlocked control can be hardwired to the HVAC system.

Energy Recovery Core

- Crossflow core of paper corrugated membrane
- Dimensions: 10¼ x 10¼ x 7 inch (260 x 260 x 180 mm)



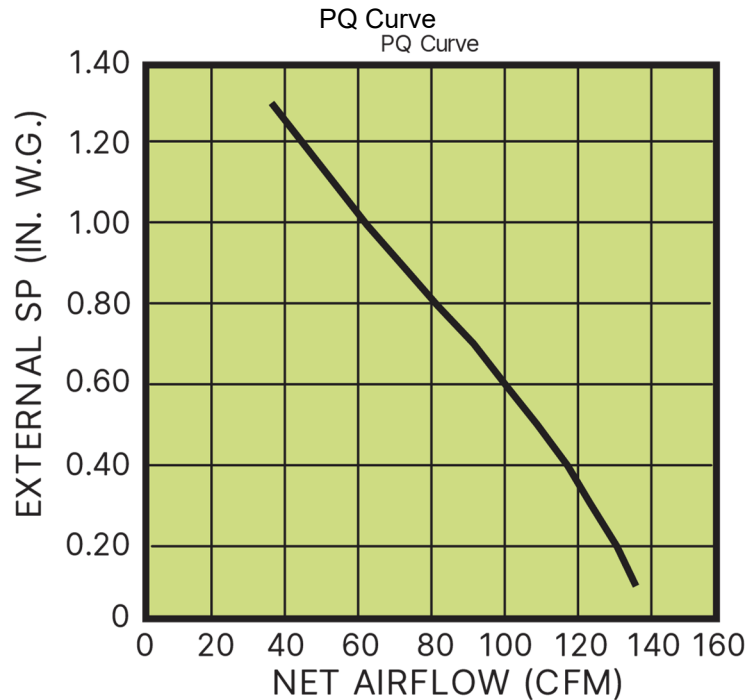
| BreezFresh ERV | Model no. VEB120S-R |
|-----------------------|--------------------------------|
| Length | 22½" (572 mm) |
| Width | 19" (485 mm) |
| Height | 8⅝" (219 mm) |
| Weight | 36 lbs (16.3 kg) |
| Operating temperature | -22°F to 104°F (-30°C to 40°C) |

Specifications

Airflow Performance

| | | | | | |
|------------------------------|----------|-----------|-----------|-----------|-----------|
| Inch Aq. (Pa) | 0.2 (50) | 0.4 (100) | 0.6 (150) | 0.8 (200) | 1.0 (250) |
| Net supply airflow CFM (L/s) | 131 (62) | 119 (56) | 102 (48) | 83 (39) | 64 (30) |

Engineering design and specifications to change without notice.



Energy Performance

| Temp Mode | Supply Temp (Outside) | Net Airflow | Sensible Recovery Efficiency | Adjusted Sensible Recovery Efficiency | Total Recovery Efficiency | Adjusted Total Recovery Efficiency | Latent Recovery / Moisture Transfer | Power Consumed |
|-----------|-----------------------|------------------|------------------------------|---------------------------------------|---------------------------|------------------------------------|-------------------------------------|----------------|
| Heating | 32°F (0°C) | 36 CFM (17 L/s) | 77 % | 81 % | - | - | 0.65 | 22W |
| Heating | 32°F (0°C) | 64 CFM (30 L/s) | 75 % | 79 % | - | - | 0.54 | 37W |
| Heating | 32°F (0°C) | 106 CFM (50 L/s) | 70 % | 75 % | - | - | 0.44 | 75W |
| Heating | -13°F (-25°C) | 36 CFM (17 L/s) | 57 % | 59 % | - | - | 0.51 | 22W |
| Cooling | 95°F (35°C) | 36 CFM (17 L/s) | - | - | 75 % | 78 % | 0.81 | 22W |
| Cooling | 95°F (35°C) | 64 CFM (30 L/s) | - | - | 62 % | 65 % | 0.64 | 42W |

Engineering design and specifications to change without notice.

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