

Energy Recovery Ventilator (ERV)

6" Duct (Standard)
30 to 165 CFM / Up to 90 (SRE)



*

Description

Substantial airflow in a mini-Energy Recovery Ventilator with multi-speed control allows you to select the required airflow [30-165 CFM].

Motor/Blower

- Power rating of 120 volts/ 60Hz
- 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, permanently lubricated plug-in motors
- Built-in soft start function to increase bearing life
- Automatically powers OFF when impeller is locked abnormally

Housing

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

Features

- Up to 90% SRE
- Intuitive digital controller included
- MERV 13 filter included
- Motorized dampers prevent air leakage
- Flexible installation methods: wall mount, vertical mount, and chain mount
- HVAC interlock with removable wiring block
- Manually boosted with running time
- Plug-in or hardwire power connection options
- ASHRAE 62.2 run time function

Typical Specification

Delta Breez ERV model VEB165S has two ECM motors engineered to run continuously for a minimum 60,000 hours with airflow rating of 30 to 165 CFM and up to 90% SRE. Insulated housing to reduce condensation and noise. Included MERV 13 filter is a superior filter and is required by many codes and IAQ programs. Interlock control can be hardwired to the HVAC system.

Energy Recovery Core

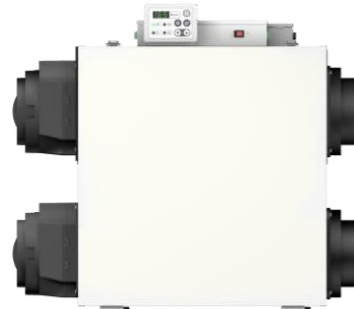
- Crossflow core of paper corrugated membrane
- Dimensions: 11³/₄ x 11³/₄ x 9⁷/₁₆ inch (300 x 300 x 240 mm)

Controls (Basic Included)

- Fault Indicator Display (FID) for CA title 24
- Individual SA/EA constant airflow settings to allow airflow balancing during installation
- Boost button: Maximum airflow for up to 60 mins

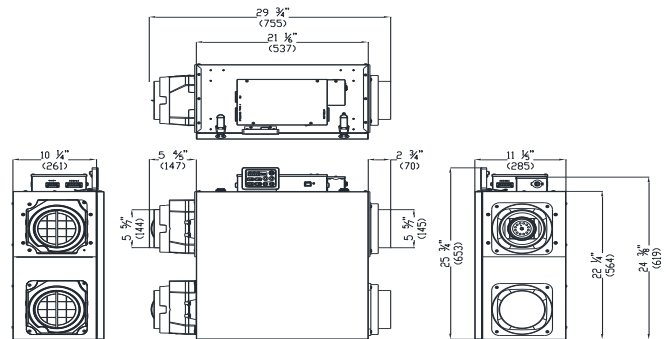
Defrost

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.



Standard Controller: FID (included)
VFRU-HERV-01CP

BreezFresh ERV	Model no. VEB165S
Length	21 1/4" (537 mm)
Width	22 1/4" (564 mm)
Height	11 1/5" (285 mm)
Weight	46 lbs (20.8 kg)
Operating temperature	-22°F to 104°F (-30°C to 40°C)



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

Optional Controls



Boost Switch
VFRU-HERV-01BS



LCD Wall Control
VFRU-HERV-01BS



Indoor Air Quality Monitor
UNO-LWD

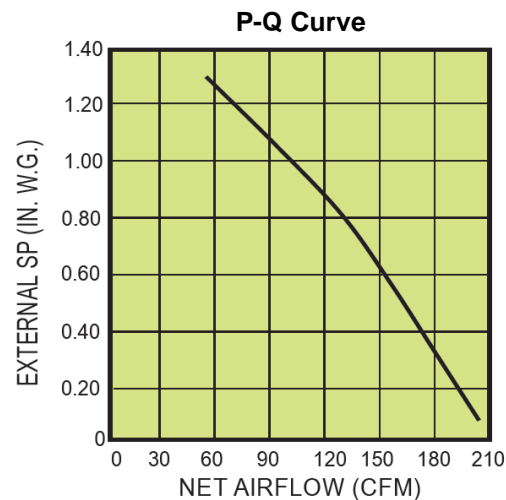
There are 3 optional auxiliary wall controls available, Refer to Wall Control specification sheet for more information.

Specifications

Airflow Performance

Inch Aq. (Pa)	0.2 (50)	0.4 (100)	0.6 (150)	0.8 (200)	1.0 (250)	1.2(300)
Net supply airflow CFM (L/s)	184 (87)	165 (78)	146 (69)	125 (59)	97 (46)	68 (32)

Engineering design and specifications to change without notice.



Thermal 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)	90%	94%	-	-	0.85	18W
Heating	32°F (0°C)	64 CFM (30 L/s)	84%	87%	-	-	0.74	27W
Heating	32°F (0°C)	127 CFM (60 L/s)	75%	78%	-	-	0.61	65W
Heating	-13°F (-25°C)	61 CFM (29 L/s)	61%	62%	-	-	0.56	27W
Cooling	95°F (35°C)	36 CFM (17 L/s)	-	-	81%	84%	0.81	19W
Cooling	95°F (35°C)	64 CFM (30 L/s)	-	-	73%	75%	0.71	30W

Engineering design and specifications to change without notice.

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