

ECHO E2800Xi

Commercial Energy Recovery Ventilator -
Indoor Unit



STANDARD FEATURES

- Up to 2800 cfm
- EC Motors
- Energy recovery core
- Dual service door & Reversible electrical box
- Push-push configuration
- External electrical box
- MERV13 (supply) and MERV8 filters (return)
- Low voltage contacts
- Slanted full length drain pan
- Outdoor ducts on the same side
- Pre-programmed wall control with remote display
- Communication via Mdbus and BACnet available

OPTIONS

- By-Pass Module (BPM1434) for recirculation
- EDF 34-14 Damper



Job Name:			
Job Location:			
Job Reference Number:			
Unit Reference Number:			
Engineer:			
Distributor:			
Contractor:			
For Reference:	For Approval:	For Construction:	
Submitted by:		Date:	
Address:			
Tel:	Fax:	Email:	
Notes:			

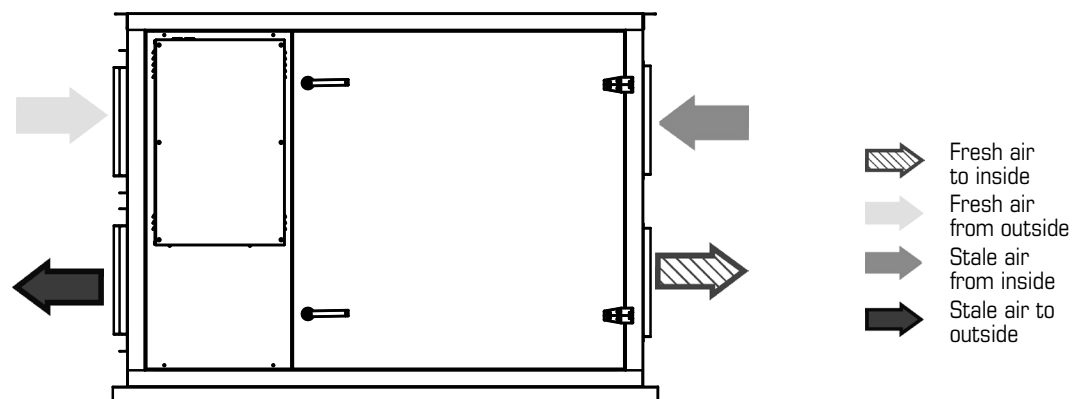
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Canada 50 Kanaflikt Way • Bouctouche, NB E4S 3M5 • 1.800.565.3548 • www.fantech.net

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For updated documentation please refer to www.fantech.net



Descriptions

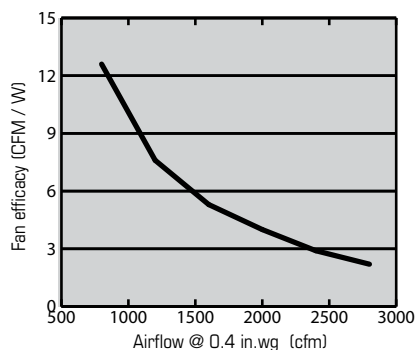
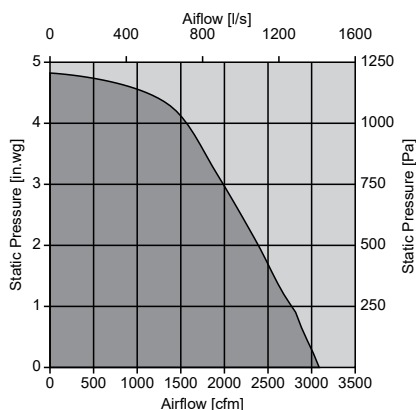
Cabinet:	Double wall construction with 22gauge galvanized pre-painted steel corrosion resistant. Insulated with 2" (50mm) fiberglass for condensation control.
Blowers:	Two (2) high efficiency EC (electronically commutated) motors. EC motors use intelligent technology with integral electronic controls to ensure energy saving no matter what the airflow demands. Reduced energy usage results in lower operating costs
Heat recovery core:	AHRI certified core made from water vapor transport durable polymer membrane that is highly permeable to humidity. The ERV core is freeze tolerant and water washable. During winter, the core transfers heat and moisture from the outgoing air to the incoming fresh air and during summer the core transfers heat and moisture from the incoming air to the outgoing air to essentially reduce the latent load. Cores are 23.6" x 23.6" (600 x 600 mm) with a 15.6" (397 mm) depth each.
Filters:	The air streams are protected by a MERV13 pleated filter on the supply air and a MERV8 pleated filter on the exhaust air. Filter dimensions are 24" x 24" (610 mm x 610 mm).
Controls:	Factory installed and pre-programmed controller with remote display for monitoring and configuring the HRV. Communication via Modbus and BACnet.
Frost control:	During the defrost sequence, a motorized damper temporarily blocks the incoming fresh air stream so that the warm air from the building can circulate through the HRV. The exhaust blower shuts down and the supply blower switches into high speed to maximize the effectiveness of the defrost strategy. An external recirculation defrost that does not depressurize the space during the defrost cycle is also available as an accessory.
Serviceability:	Cores, filters and drain pan can be accessed easily from both sides of the unit from hinged and removable access doors. Cores conveniently slide out and blowers can be accessed from both side of the HRV from fastened access panels. Blowers are easily removable by taking off the access panel. A clearance of 44" (1120 mm) is required to service the unit.
Mounting:	Unit may be suspended by using threaded rod, not supplied, or placed on a platform. Unit shall be adaptable for easy service of electrical components.
Warranty:	Fantech ERV's have a warranty that is limited to 3 years on all parts from the date of purchase, including parts replaced during this time period. If there is no proof of purchase available, the date associated with the serial number will be used for the beginning of the warranty period



Specifications

- Volts: 200 - 240V
- Phase: Single
- Amperage: 12.2 Amps Total
- Blowers (each blower): 230V, 60Hz, 5.8 Amps
- Weight: 750 Lbs (340 Kg)
- Shipping Weight: 800 Lbs (363 Kg)
- Shipping Dim.: 79 5/8" x 54 7/8" x 58 3/4" (2023 x 1393 x 1444 mm)

Ventilation Performance



Energy performance

Airflow	Heating – 35 °F (1.7°C) - Effectiveness			Cooling – 95°F (35°C) - Effectiveness		
	Sensible	Latent	Total	Sensible	Latent	Total
cfm	%	%	%	%	%	%
2400	67	45	59	67	41	51
2250	67	46	60	67	43	55
1800	69	50	62	69	46	55
1600	70	52	64	70	48	56

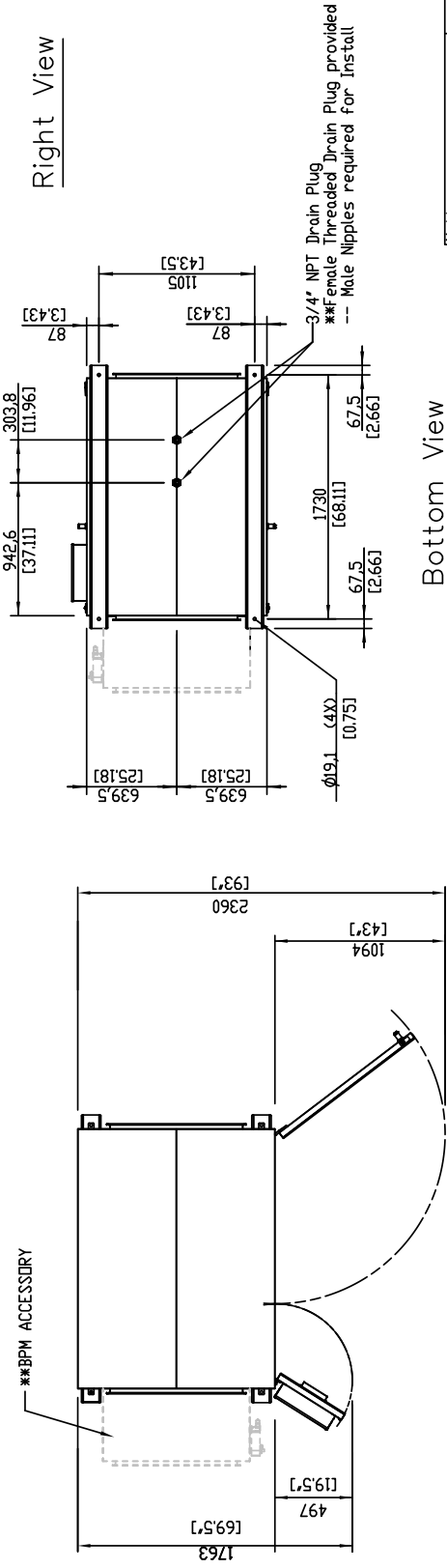
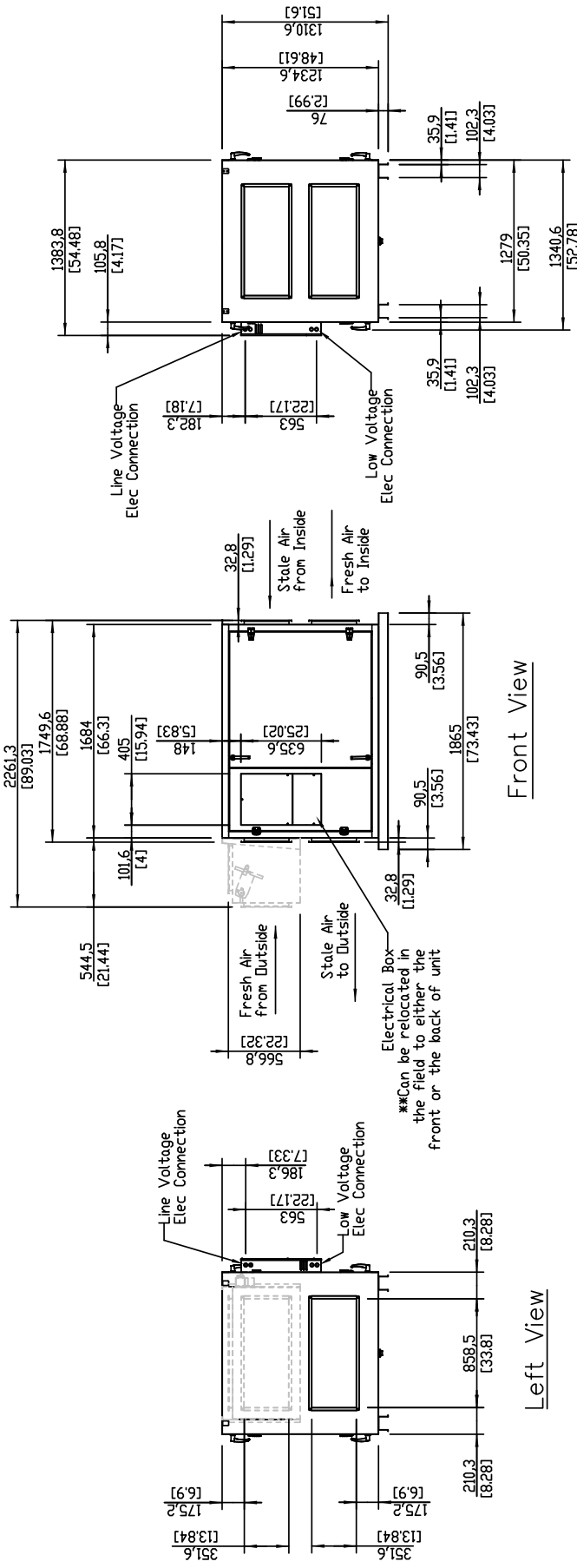
Requirements and standards

- Complies with the UL 1812 requirements regulating the construction and installation of Heat Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Technical data was obtained from published results of test relating to AHRI 1060 Standards

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****Nominal Duct Sizes: 14" x 34"**



Top View

Access Panel Clearance

Bottom View

Model: E2800xi / H2800xi NTS E400010 Dec2016

