

Submittal

Job: 1523
667 Congress
667 Congress Street
Portland, ME

Spec Section No: M6-0

Submittal No: 2

Revision No: 0

Sent Date:

Spec Section Title:

Submittal Title: ERV-1 Energy Recovery Units

Contractor:

Ranor Mechanical
Wes Sirois

Contractor's Stamp

GC (Primary):

PC Construction

Architect's Stamp

Engineer's Stamp

No Exceptions Taken:
Comments: Verify control options and accessories prior
to releasing equipment

EMERSON-SWAN

Applied Products Division

300 Pond Street, Randolph, MA 02368

(800) 346-9215 • (781) 986-2000

fax (888) 861-8682

Letter of Transmittal

Date:

Company:

Attention:

Project:

We are **Submitting** 1 set (s) of **Product Submittals** for **Approval**
Resubmitting **Installation Manuals** **Record Purpose**

Remarks: Please be advised that a complete copy of APPROVED submittals MUST be returned in order to process any order. Failure to return will delay order entry.

Best regards,

SUBMITTAL SHEETS *for* APPROVAL

Engineer:

Prepared for:

Submitted for Approval by:
Emerson Swan Co. Inc
300 Pond Street
Randolph, MA 02368

Approved

Rejected

Date _____

Received by _____

ENGINEERING DATA

TOTAL RECOVERY CORE

The cross-flow energy recovery core transfers heat and water vapor between the two air streams. It is easily removed for cleaning or service.

MOTORS AND BLOWERS

Each air stream has an independent motorized impeller with multiple fan speed operation.

FILTERS

Washable pre-filters in exhaust and supply air streams.

MOUNTING THE ERV

Adjustable height "L" brackets supplied.

FROST PREVENTION

Temperature sensor activated, periodically shuts down supply motor. Drains not required.

CASE

20 gauge pre-painted galvanized steel for superior corrosion resistance, insulated to prevent exterior condensation

INSTALLER SELECTABLE HIGH SPEED SETTINGS

The highest speed, "H3" is the factory setting. Installers may select a lower high speed on set up. See chart for airflows H1, H2, and H3.

ELECTRONICS

Unit is supplied with a removable electrical box which can be accessed through the main door of the ERV. The controls can be wall mounted in a central location of the home. 3 wire 20 gauge (min.) 100 ft length (max.).

CONTROL OPTIONS

99-DXPL02 Lifebreath Digital Control

- 5 speed operation on each mode
- Humidity control through adjustable Dehumidistat
- 5 user selectable operational modes: Continuous Ventilation, Continuous Recirculation, 20 ON/40 OFF, 10 ON/50 OFF, 20 ON/40 Recirculation
- 20/40/60 min. High speed override button
- Compatible with 99-DET02 Wireless Timers
- 3 wire connection

99-BC04 Lifebreath Ventilation Control

- 2 speed fan setting (Low/High)
- 2 modes of operation: Ventilation, 20/40
- Compatible with 99-DET02 Wireless Timers
- 3 wire connection

TIMER OPTIONS

99-DET01 Lifebreath 20/40/60 Minute Timer - Initiates High speed Ventilation for 20, 40 or 60 minutes.

3 wire connection.

99-DET02 WIRELESS Lifebreath 20/40/60 Minute Timer - Initiates High speed Ventilation for 20, 40 or 60 minutes. Wirelessly connects to main control for ease of installation. 40' approximate range.

99-RX02 WIRELESS Repeater - Used to extend range of 99-DET02 Wireless Timers. Plugs into 120V power outlet. Wirelessly connects to main control and 99-DET02. Install at halfway point between timer and main wall control if timer is out of range.

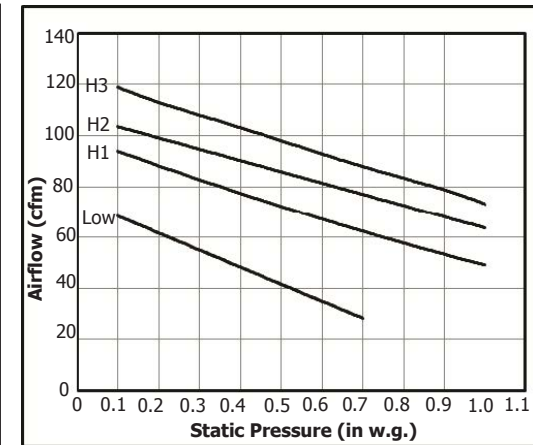
ACCESSORY OPTIONS

99-163 Duct Heater w/Electronic SCR Thermostat - 1 kW, 6 in (152 mm)

99-185 Weatherhoods - Two 5 in (127 mm)

99-190 Dual Hood - One 6 in (152 mm) opening for supply and exhaust.

Performance (HVI certified)		
Net supply airflow in cfm (L/s) against external static pressure		
External Static Pressure	Airflow	
@ 0.1 in (25 Pa)	119 cfm (56 L/s)	
@ 0.2 in (50 Pa)	113 cfm (53 L/s)	
@ 0.3 in (75 Pa)	108 cfm (51 L/s)	
@ 0.4 in (100 Pa)	103 cfm (49 L/s)	
@ 0.5 in (125 Pa)	98 cfm (46 L/s)	
@ 0.6 in (150 Pa)	93 cfm (44 L/s)	
@ 0.7 in (175 Pa)	88 cfm (42 L/s)	
@ 0.8 in (200 Pa)	83 cfm (39 L/s)	
Sensible Effectiveness @ 55 cfm (25 L/s)	32°F (0°C)	74%
Sensible Efficiency @ 55 cfm (25 L/s)	32°F (0°C)	62%
Total Efficiency @ 64 cfm (30 L/s)	95°F (35°C)	35%
VAC @ 60Hz	120	
Watts / Low speed	69	
Watts / High speed	147	
Amp rating	1.7	



Sensible Efficiency: Thermal

Total Efficiency: Moisture and Thermal @95F

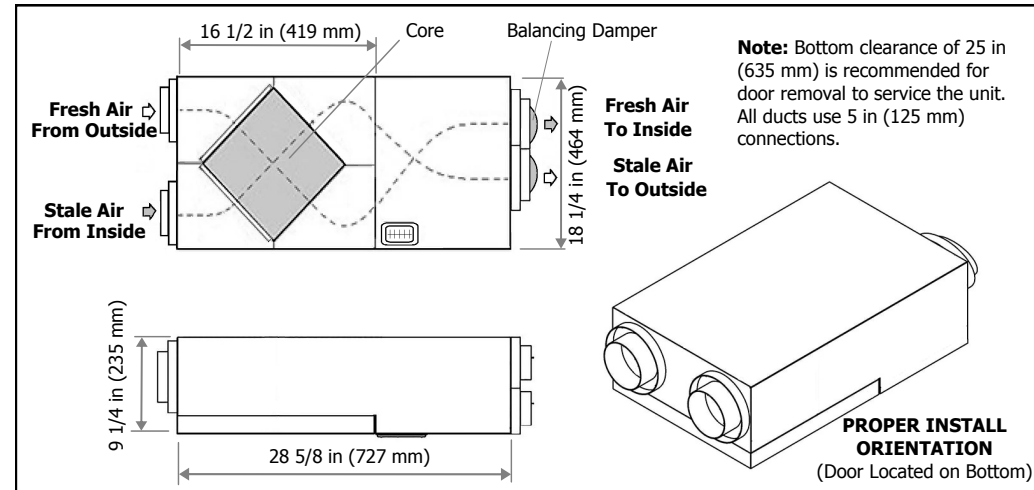
Effectiveness: Based on temperature differential between the 2 airstreams

Efficiency: Takes into account all power inputs and leakage

WEIGHT 38 lbs (17.2 kg) **SHIPPING WEIGHT** 41 lbs (18.6 kg)



DIMENSIONS 120 ERV



NOTE: All specifications are subject to change without notice.

WARRANTY Units carry a 5 year warranty on the ERV core and a 5 year replacement parts warranty.

Date: _____ Contractor: _____

Tag: _____ Qty: _____ Supplier: _____

Project: _____ Quote #: _____

Engineer: _____ Submitted By: _____