



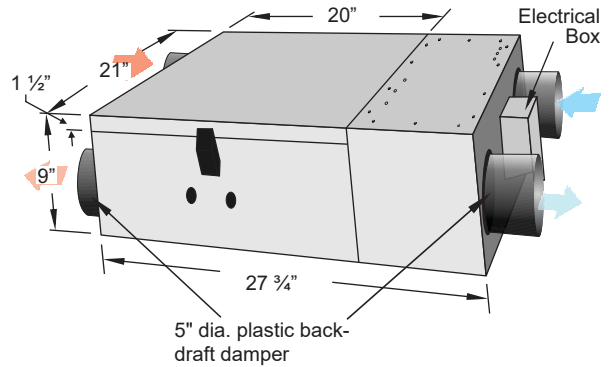
Deluxe ECM Series

**ERV Deluxe Series
(Enthalpy Core)**

**ONLY ERV IN THE MARKET PLACE WITH A BUILT-IN TRUE AUTOMATIC ELECTRONIC AIR-BALANCING AND CONSTANT FLOW TECHNOLOGY
NO FIELD BALANCING NECESSARY**

Features:

- Power ratings: 115V / 1 / 60 Hz, 0.60 Amp, Standby current is 9W only
- High efficiency energy savings permanently lubricated ECM motors (Thermally protected) for continuous operation
- Washable **Dpoint Enthalpy core** suitable up to -25°C (**Drainless design**)
- **Tilted core design for maximum efficiency**
- Fully automatic defrost (below -5°C)
- Adjustable 4-Normal (Low Speed) and 4-High Speed operation
- Ideal for horizontal and vertical installation
- Air flow: 45 - 160 CFM (normal operation)
- For homes and suites up to 2000 sq. ft.
- Meets all **LEED** requirements
- Unique electronic control board allows the unit to return to the last memory mode when power restores after failure
- Furnace / Fan-coil / Heat Pump Interlock
- **Dual Protection:** If for any reason ERV fan failure is detected, the outside fresh-air supply will be closed and interlocking relay contact will be opened. Fan Coil/Furnace low speed will be stopped and at normal operation no air will enter into the system
- App. Weight 55 lbs.
- 2 years warranty on parts
- Washable filters



Wall Control:

- Programmable LCD display
- Pushbutton design
- Easy to mount and operate
- Capable to connect multiple timer switches
- Self powered (no battery required)
- OFF/Normal/High/Recirculation/ Energy Saving mode
- Humidity and Error indicators
- Two defrost method selection:
-Recirculating & Non-recirculating
- Humidity settings (up to 80% RH)
- Multiple Wall Controls option
- Manual / Automatic balancing Selection

Accessories (Included):

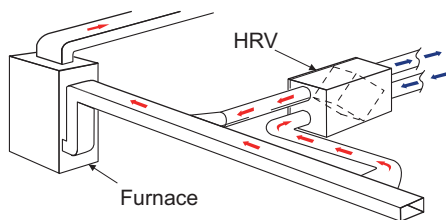
- Wall control
- Mounting brackets

Optional:

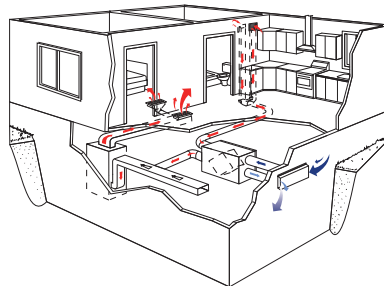
- Multiple wall controls
- Timer switches 5VDC (Wall mount)
- 2 sets (Webbing/Brackets/Ladder lock)
- Pipe and "T"connector
- Drain plugs



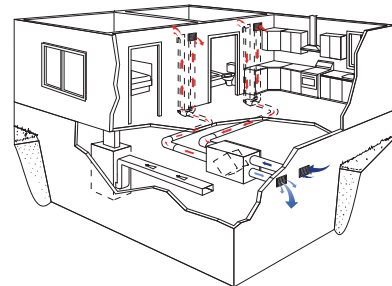
Installation Options for house



Furnace Return Air-duct Connection



Semi Ducted System



Fully Ducted System

Reversomatic Manufacturing Ltd.

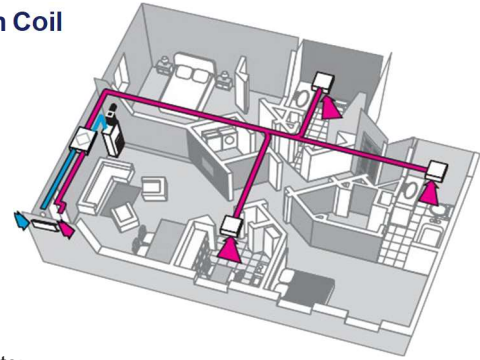
790 Rowntree Dairy Road, Woodbridge, ON Canada L4L 5V3 • Tel: 905-851-6701 • Fax: 905-851-8376
www.reversomatic.com • info@reversomatic.com

Installation Options for High-Rise Condominiums

Fully Ducted System



ERV with Fan Coil System



SOUND

30 (L/s) @0.2 (IN. W.G.) S.P.	1.0 Sones (@50Pa)
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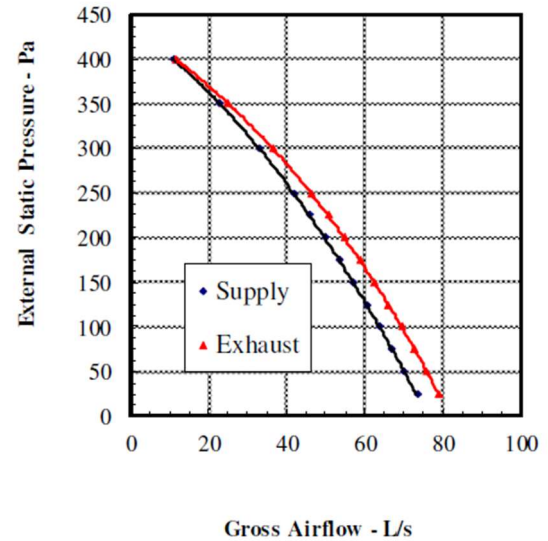
Note:

- HRV must be connected to the drain.
- ERV does not require any drain. However, we recommend connecting ERV to drain in areas where extreme cold weather conditions are expected.

VENTILATION PERFORMANCE

Exhaust static pressure		Net Supply airflow		Gross Air Flow				Power
Pa	in. W.C.	L/s	scfm	Supply		Exhaust		
Pa	in. W.C.	L/s	scfm	L/s	scfm	L/s	scfm	Watts
25	0.1	72.0	154.0	73.0	155.0	79.0	167.0	103.0
50	0.2	69.0	147.0	70.0	148.0	75.0	160.0	103.0
75	0.3	66.0	140.0	66.0	141.0	72.0	153.0	103.0
100	0.4	63.0	133.0	63.0	134.0	69.0	147.0	103.0
125	0.5	59.0	126.0	60.0	127.0	66.0	139.0	103.0
150	0.6	56.0	119.0	57.0	120.0	62.0	132.0	103.0
175	0.7	53.0	112.0	53.0	113.0	58.0	124.0	102.0
200	0.8	49.0	104.0	49.0	105.0	54.0	116.0	100.0
225	0.9	45.0	96.0	45.0	97.0	50.0	107.0	99.0
250	1.0	41.0	87.0	41.0	88.0	46.0	97.0	96.0
300	1.2	32.0	69.0	32.0	69.0	36.0	76.0	91.0
350	1.4	22.0	47.0	22.0	48.0	24.0	52.0	83.0
400	1.6	10.0	23.0	10.0	23.0	11.0	24.0	73.0

NOTE: FAN CURVE PERFORMED AT HIGHEST SPEED



ENERGY PERFORMANCE

RERV-D100ECM		Supply Temperature		Net Airflow		Supply/Exhaust Flow Ratio	Average power (Watts)	Sensible Recovery Efficiency	Adjusted Sensible Efficiency	Apparent Sensible effectiveness	Net Moisture Transfer
		°C	°F	L/s	scfm						
Heating	I	0	32	33.5	71	1.00	39.0	80.0	84.0	85.0	0.71
	II	0	32	38.1	80.7	1.00	44.0	79.0	83.0	84.0	0.69
	III	0	32	45.4	96.2	0.99	55.0	78.0	82.0	84.0	0.67
	iv	-25	-13	30.8	65.3	0.92*	57.0	61.0	63.0	82.0	0.37
Cooling	IV	35	95	32.4	68.7	0.99	35.0	66.0	73.0	77.0	0.38

* The Supply / Exhaust Flow Ratio at 22°C to the start of the 72 Hour Cold Weather Test

Contractor:		RERV-D100ECM		
Architect:	Job:	Date	Superse. des	Drawing No.
Engineer:	Date Submitted:	2024/01/29		

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