



**REVERSOMATIC**  
MANUFACTURING LIMITED

"Where quality and performance counts"

## AB ECM Series

## Shop Drawing RHRV-AB150PECM

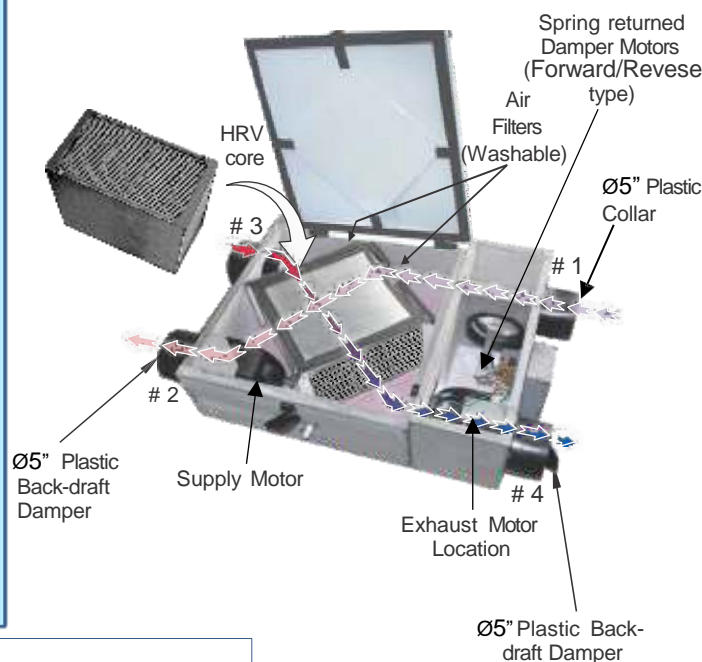
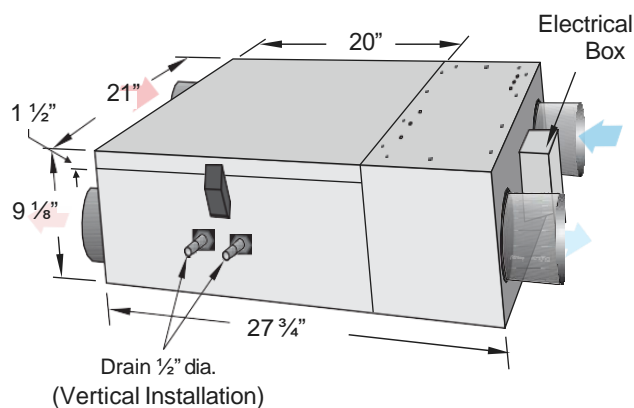
### INTRODUCING OUR NEW AUTO BALANCE ECM SERIES WITH CONSTANT AIR FLOW TECHNOLOGY

**NEW**

#### Features:

- Power ratings: 120V / 1 / 60 Hz, 1.60 Amp, Standby current is 9W only
- **High efficiency** energy saving permanently lubricated ECM motors (Thermally protected) for continuous operation
- **Washable Polypropylene core** (up to -40°C)
- **Tilted core design for maximum efficiency**
- **Fully automatic re-circulating** defrost (below -5°C)
- **Adjustable** 10-Normal (Low Speed) and 10-High Speed operation for constant flow application
- Ideal for horizontal and vertical installations
- Air flow: 30 - 125 CFM (normal operation), maximum 158 CFM
- For homes and suites up to **2000 sq. ft.**
- **Meets all standards** and building codes 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 HRV 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 50 lbs.
- **2 years warranty** on parts
- **Washable filters**

#### HRV (Polypropylene Core)



#### Accessories (Included):

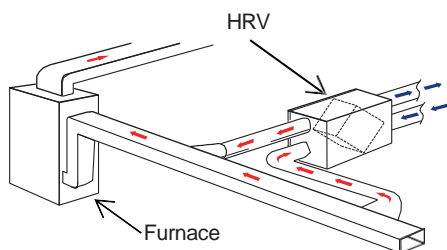
- Mounting brackets (4 Pcs.)
- Drain plugs (2 sets)
- MERV-4 Washable filters

#### Optional:

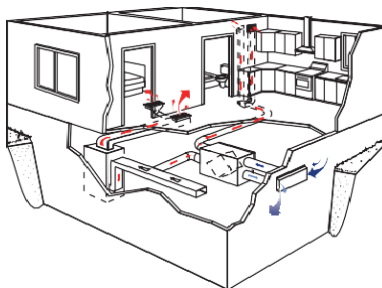
- Timer switches 5VDC (Wallmount, up to 4 pcs. max)
- Intermittent Switch 5VDC (Wallmount, 1 pc. only)
- 2 sets (Webbing/Brackets/Ladder lock)
- Pipe and "T" connector
- MERV- 8&13 filters



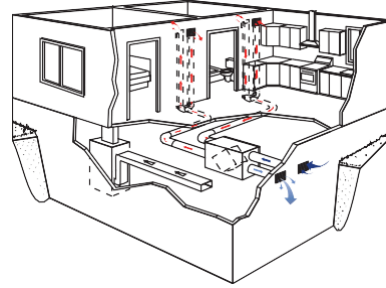
#### Installation Options for house



Furnace Return Air-duct Connection



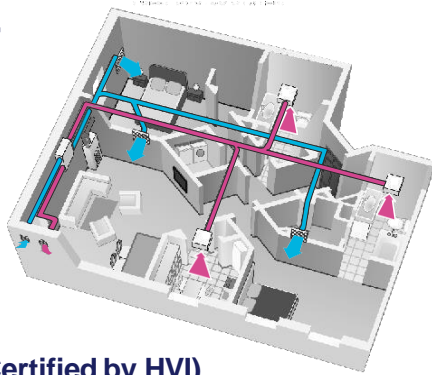
Semi Ducted System



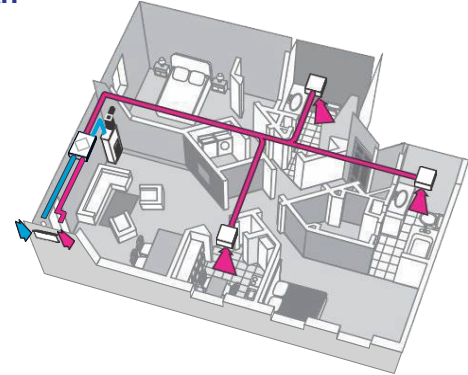
Fully Ducted System

## Installation Options for High-Rise Condominium

### Fully Ducted System



### HRV with Fan Coil System



■ FRESH AIR  
■ EXHAUSTED AIR

### SOUND (Not Certified by HVI)

30 (L/s) @0.2  
(IN. W.G.) S.P.

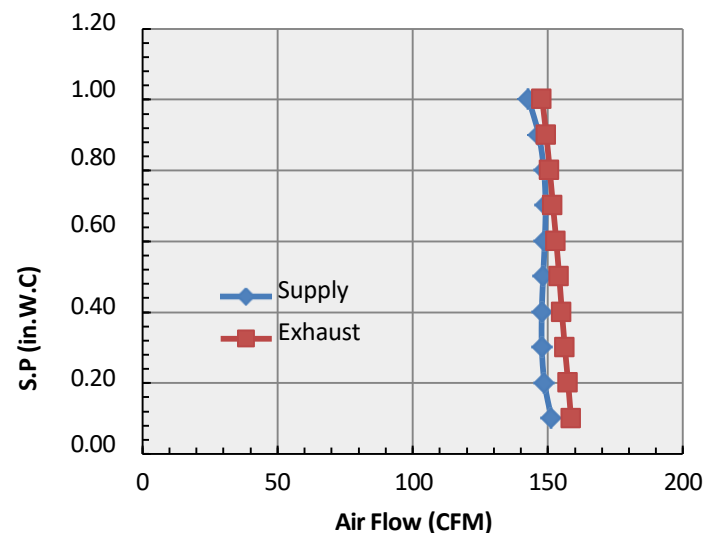
1.0 Sones  
(@50Pa)

Note:

- HRV must be connected to drain.

### VENTILATION PERFORMANCE

Exhaust static pressure		Net Supply air flow		Gross Air Flow				Power
				Supply		Exhaust		
Pa	in. W.C.	L/s	Scfm	L/s	Scfm	L/s	scfm	Watts
25	0.1	71	150	71	150	74	157	130
50	0.2	70	148	70	148	74	157	139
75	0.3	69	146	69	146	73	155	144
100	0.4	69	146	69	146	73	155	149
125	0.5	69	146	69	146	72	153	153
150	0.6	70	148	70	148	72	153	164
175	0.7	70	148	70	148	72	153	166
200	0.8	70	148	70	148	71	150	175
225	0.9	69	148	69	146	70	148	178
250	1.0	67	142	67	142	69	146	182
300	1.2	60	127	60	127	68	144	172



### ENERGY PERFORMANCE

RHRV-AB150PECM		Supply Temperature		Net Airflow		Supply/Exhaust Flow Ratio	Average power (Watts)	Sensible Recovery Efficiency	Adjusted Sensible Efficiency	Net Moisture Transfer (%)
		°C	°F	L/s	scfm					
Heating	I	0	32	30	64	0.99	30.0	70.0	73.0	0.01
	II	0	32	34	72	1.00	33.0	70.0	74.0	0.00
	III	0	32	45	95	1.00	50.0	66.0	70.0	0.00
	IV	0	32	58	123	1.01	81.0	62.0	66.0	0.00
	V	-25	-13	34	72	0.97*	52.0	65.0	67.0	0.12

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

Contractor:				RHRV-AB150PECM		
Architect:		Job:		Date	Superse.des	Drawing No.
Engineer:		Date Submitted:		04/05/2023		



**REVERSOMATIC**  
MANUFACTURING LIMITED

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

