



REVERSOMATIC
MANUFACTURING LIMITED

Deluxe

Shop Drawing RHRV-D100P

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

**HRV Deluxe Series
(Polypropylene Core)**

Features:

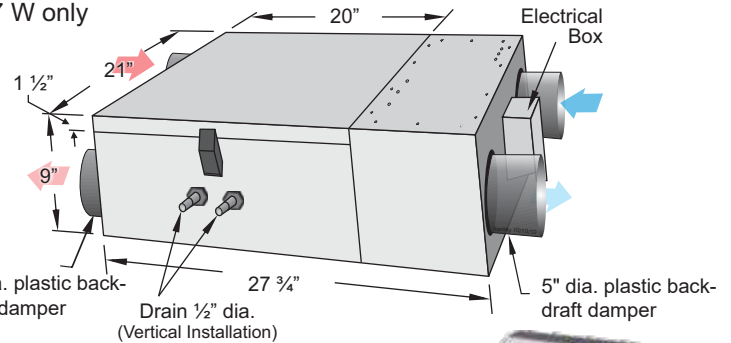
- Power ratings: 115V / 1 / 60 Hz, 1.10 Amp., Standby current is 7 W only
- High efficiency energy savings permanently lubricated PSC motors (Thermally protected) for continuous operation
- Washable Polypropylene core (up to -40°C) and Filters
- **Tilted core design for maximum efficiency**
- Fully automatic defrost (below -5°C)
 - Recirculating (Standard) and Non-recirculating (Optional)
- Adjustable 4-Normal (Low Speed) and 4-High Speed operation
- Ideal for horizontal and vertical installation
- Air flow: 45 - 95 CFM (normal operation)
- For homes and suites up to 2000 sq. ft.
- Meets all standards and building code 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 the 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

Accessories (Included):

- Wall control
- Mounting brackets
- Drain plugs

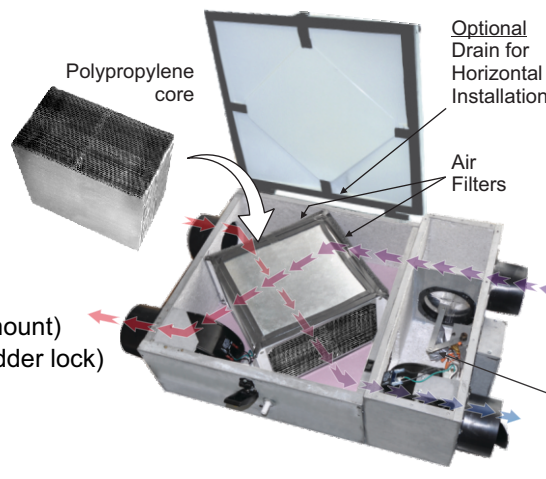
Optional:

- Wall control c/w back-light
- Multiple wall controls
- Timer switches 5VDC (Wall mount)
- 2 sets (Webbing/Brackets/Ladder lock)
- Pipe and "T" connector

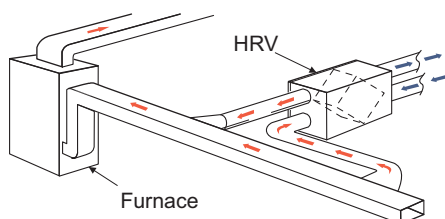


Wall Control:

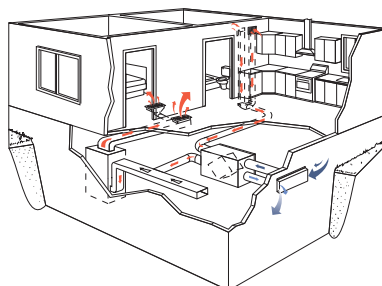
- Programmable LCD display c/w back light (New)
- Pushbutton design
- Easy to mount and operate
- Capable to connect multiple timer switches
- Self powered (no battery required)
- OFF/Normal/High/Recirculation/ Energy Saving mode
- Humidity and Error indicators
- Two defrost method selection:
 - Recirculating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



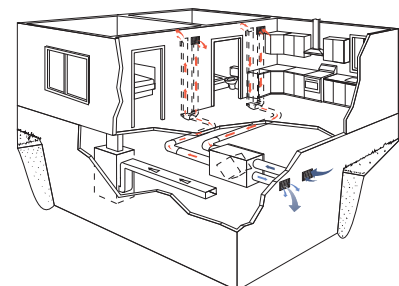
Installation Options for house



Furnace Return Air-duct Connection



Semi Ducted System



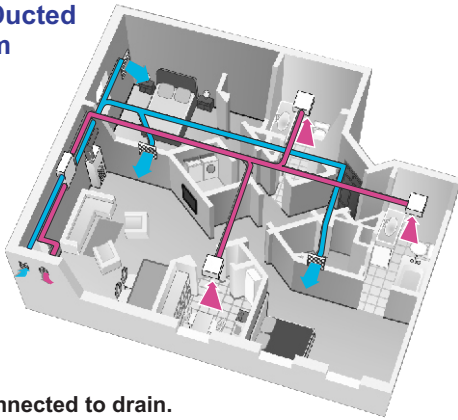
Fully Ducted System

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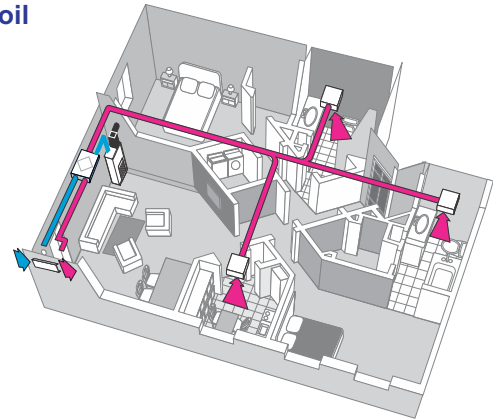
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www.reversomatic.com • info@reversomatic.com

Installation Options for High-Rise Condominium

Fully Ducted System



HRV with Fan Coil System



FRESH AIR
EXHAUSTED AIR

Note:

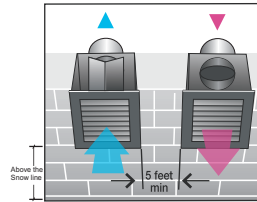
- HRV must be connected to drain.
- ERV does not require any drain. However, we recommend to connect ERV to drain in areas where extreme cold weather conditions are expected.

VENTILATION PERFORMANCE

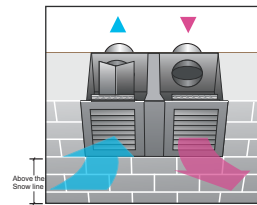
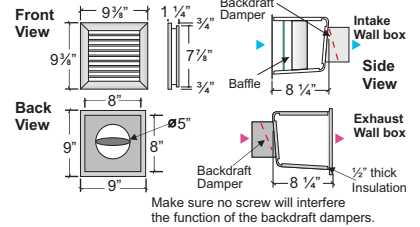
Low Temp. Ventilation Reduction Factor (CSA-C439-00) **LTVR** = 0.83
Low Temperature Imbalance Factor **LTIF** = 1.01
Low Temperature Ventilation Reduction During -25°C Test: 16.7%
Exhaust Air Transfer Ratio: 0.006

External Static Pressure		Net Supply Air Flow		Gross Air Flow			
				Supply		Exhaust	
Pa	in. W.C.	L/s	CFM	L/s	CFM	L/s	CFM
25	0.1	54	114	54	115	56	118
50	0.2	52	109	52	110	52	110
75	0.3	49	105	50	106	49	104
100	0.4	47	101	48	101	47	99
125	0.5	44	93	44	94	46	96
150	0.6	41	86	41	87	44	92
175	0.7	38	80	38	81	41	87
200	0.8	34	73	35	74	38	81
225	0.9	31	66	32	67	31	65

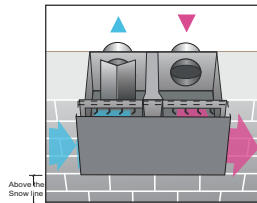
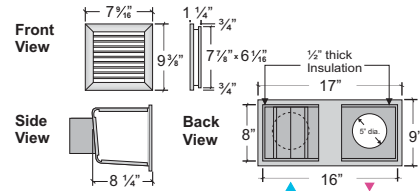
OPTIONAL WALL BOXES



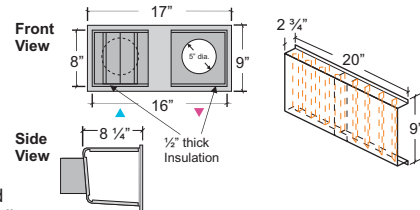
Single wall boxes with extruded alu. grille



Double vents with extruded alu. grilles



Double vents complete with hood



Note: All Vents must be installed min. 5 ft away from sidewalls.

ENERGY PERFORMANCE

RHRV D100P		Supply Temperature		Net Airflow		Supply / Exhaust Flow Ratio	Average Power (Watts)	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Net Moisture Transfer
		°C	°F	L/S	CFM					
Heating	i	0	32	32	67	0.98	76	68	80	1 %
	ii	0	32	36	77	1.01	84	67	77	-
	iii	0	32	43	91	0.99	100	65	75	-
	iv	-25	-13	31	65	0.96*	84	61	75	3 %
Cooling	v	35								

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

SOUND:

29 (L/s) @ 0.2 (IN. W.G.)	1.7 sonex (@ 49 Pa)
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Contractor:		RHRV-D100P		
Architect:	Job:	Date	Supersede	Drawing No.
Engineer:	Date Submitted:	11/15/16		Rev. 2

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