



Deluxe

**HRV Deluxe Series
(Aluminum Core)**

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

Features:

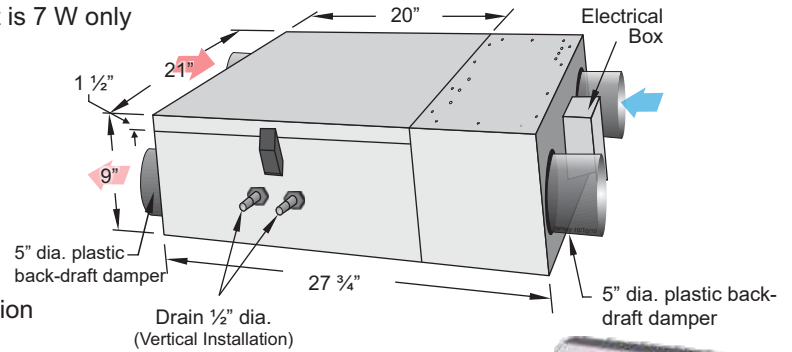
- Power ratings: 115V / 1 / 60 Hz, 1.10 Amp., Standby current is 7 W only
- High efficiency energy savings permanently lubricated PSC motors (Thermally protected) for continuous operation
- Washable Aluminum core (up to -40°C) and Filters
- **Tilted core design for maximum efficiency**
- Fully automatic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

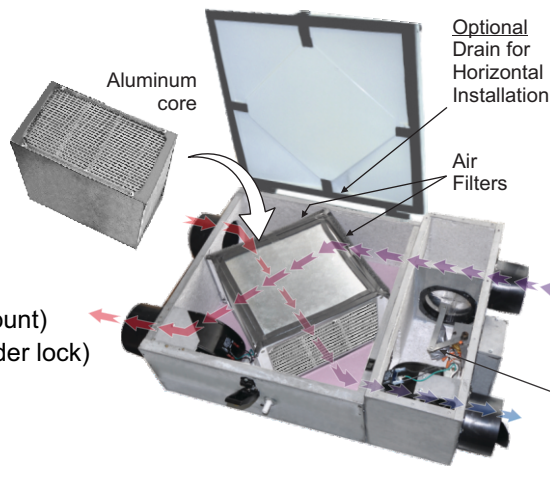
Optional:

- 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:

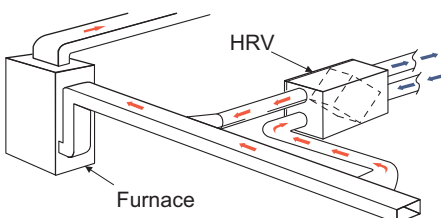
- Programmable LCD display c/w back light (New)
- Pushbutton design
- Easy to mount and operate
- Capable to connect multiple timer switches
- Self powered (no battery required)
- OFF/Normal/High/Recirculation/ Energy Saving mode
- Humidity and Error indicators
- Two defrost method selection:
 - Recirculating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



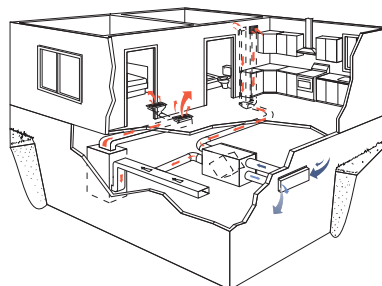
Spring returned Damper Motors (Forward/Reverse type)



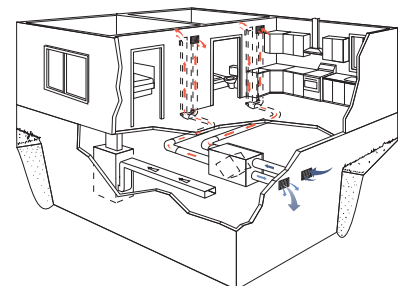
Installation Options for house



Furnace Return Air-duct Connection



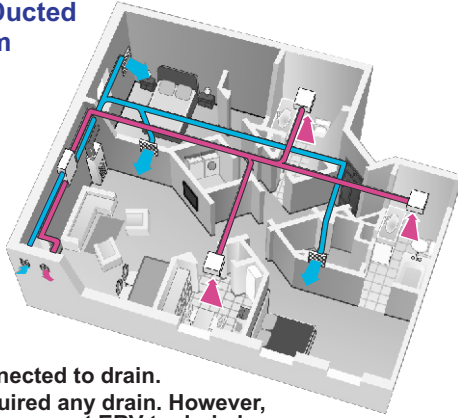
Semi Ducted System



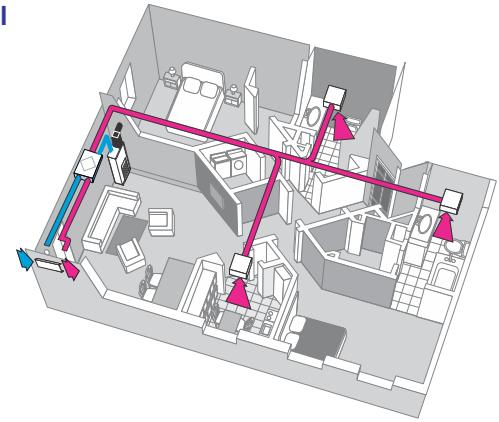
Fully Ducted System

Installation Options for High-Rise Condominium

Fully Ducted System



HRV with Fan Coil System



FRESH AIR
EXHAUSTED AIR

Note:

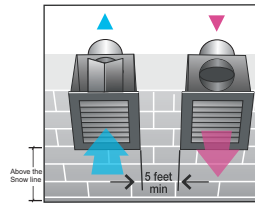
- HRV must be connected to drain.
- ERV does not require any drain. However, we recommend connecting ERV to drain in areas where extreme cold weather conditions are expected.

VENTILATION PERFORMANCE

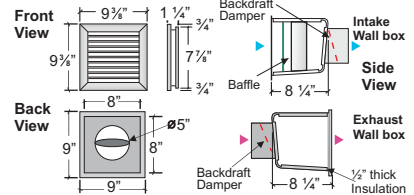
Low Temp. Ventilation Reduction Factor (CSA-C439-00) **LTVR = 0.09**
 Low Temperature Imbalance Factor **LTIF = 0.97**
 Low Temperature Ventilation Reduction During -25°C Test: **10.1%**
 Exhaust Air Transfer Ratio: **0.012**

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	60	128	61	130	62	132
50	0.2	59	124	59	126	60	128
75	0.3	57	120	57	122	57	121
100	0.4	54	115	55	116	54	114
125	0.5	52	110	52	111	52	110
150	0.6	50	106	50	107	48	101
175	0.7	47	101	48	102	45	95
200	0.8	45	96	46	97	43	92
225	0.9	42	90	43	91	39	83
250	1.0	38	82	39	83	36	77
275	1.1	33	71	34	71	30	64

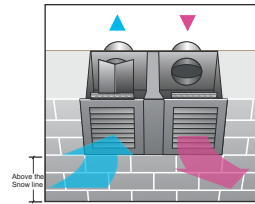
OPTIONAL WALL BOXES



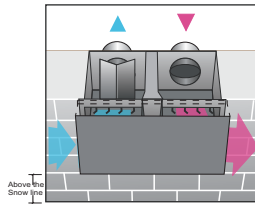
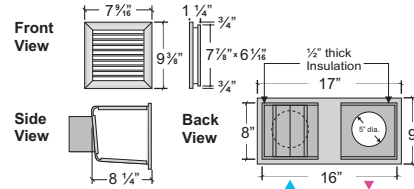
Single wall boxes with extruded alu. grille



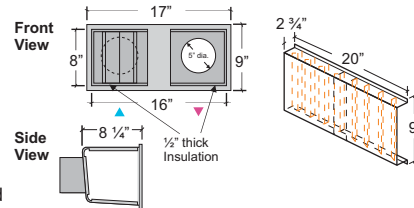
Make sure no screw will interfere the function of the backdraft dampers.



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 D100A		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	30	64	1.03	70	58	70	2 %
	ii	0	32	36	77	1.02	84	56	67	2 %
	iii	0	32	43	91	1.02	100	55	65	3 %
	iv	-25	-13	30	64	0.96*	75	60	72	2 %
Cooling	v	35								

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

SOUND:

30 (L/s) @ 0.2 (IN. W.G.)	2.2 sones (@ 50 Pa)
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Contractor:		RHRV-D100A		
Architect:	Job:	Date	Superse.des	Drawing No.
Engineer:	Date Submitted:	11/15/16		Rev. 2

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