



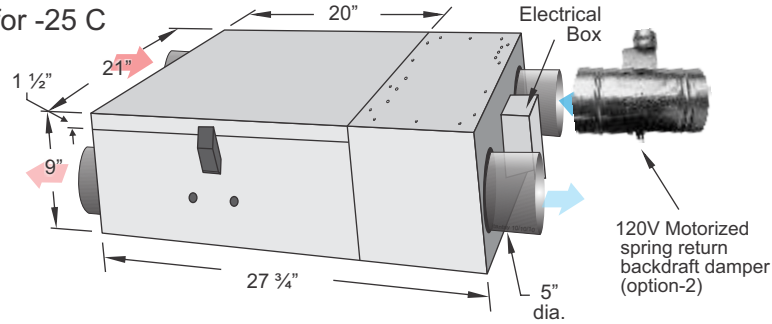
Superior

RERV-S100

**ERV Superior Series
(Enthalpy Core)**

Features

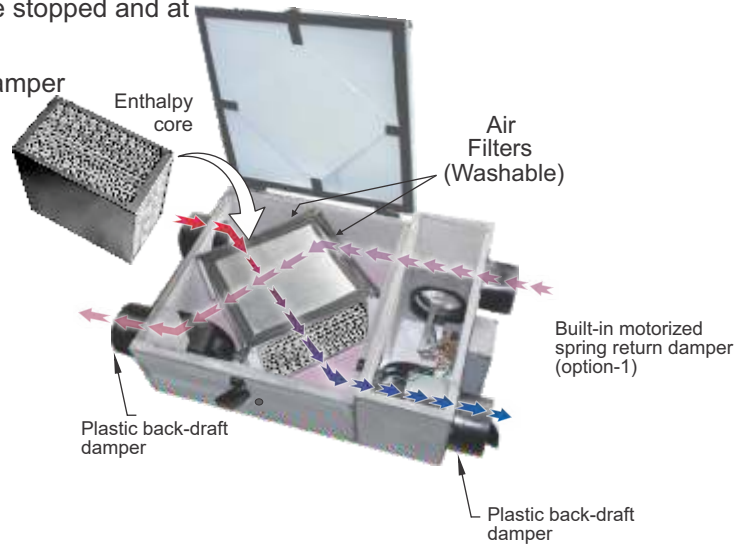
- Over all size 27 3/4" (W) x 21" (D) x 9" (H)
- Power ratings: 115V / 1 / 60 Hz, 1.5 Amp, Standby current is 7W only
- Washable high efficiency **Dpoint Enthalpy core** suitable for -25 C
- Drainless design
- High efficiency energy saving permanently lubricated variable speed PSC motors for air balancing
- Suitable for horizontal & vertical installation
- Tilted core design for maximum efficiency
- Automatic fan cycled defrost
- Exhaust up to two washrooms
- Two Speed exhaust (High / Low) - up to 150 CFM maximum
- Continuous fresh air supply up to 95 CFM
- Furnace / Fan-coil / Heat Pump Interlock
- Dual Protection: If exhaust fan fails, the outside fresh-air supply will be closed by shutting off supply motor and the relay contact for motorized damper and interlock will be opened. Fan Coil/Furnace low speed will be stopped and at normal operation no air will enter into the system
- In case of power failure, optional motorized spring return damper stops the fresh air intake and prevents core from freezing
- Weight approximately 52 lbs., 2 years warranty on parts



Accessories (Included): • Mounting brackets

Optional:

- Built-in Motorized Spring Return Damper (option-1)
- Motorized Spring Return Backdraft Damper (option-2)
- Dehumidistat
- Pipe and "T" connector
- Time Delay Switch (5VDC or 120VAC)
- 2 sets (Webbing/Brackets/Ladder lock)
- Intermittent Switch (5VDC)
- Drain plugs

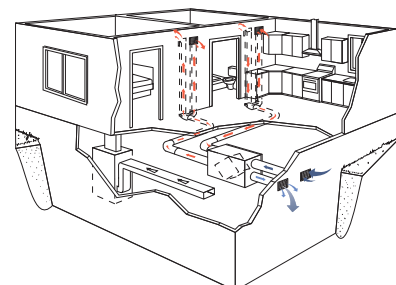
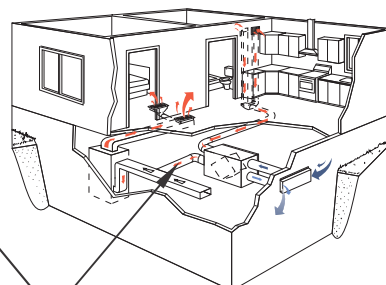
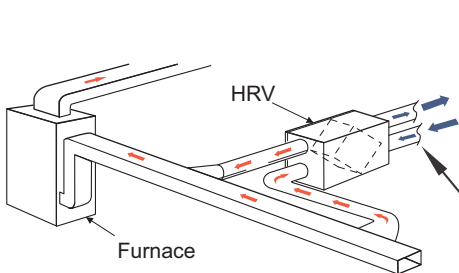


Installation Options for house

Furnace Return Air-duct Connection

Semi Ducted System

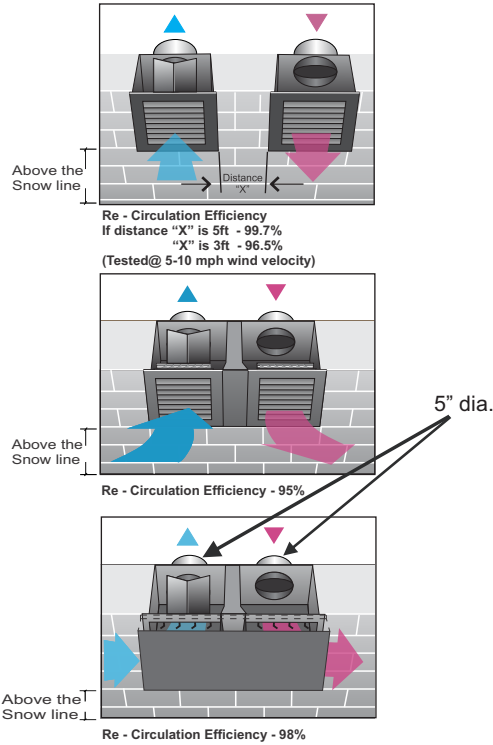
Fully Ducted System



Motorized spring return damper (Highly Recommended)



OPTIONAL WALL BOXES

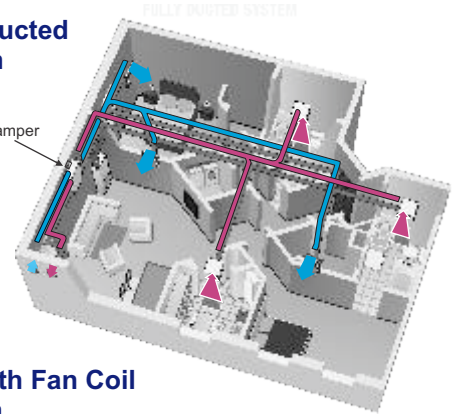


Note: All Vents must be installed min. 5 ft away from sidewalls.
For Safety and optimum performance always use Reversomatic accessories.

Installation Options for High-Rise Condominium

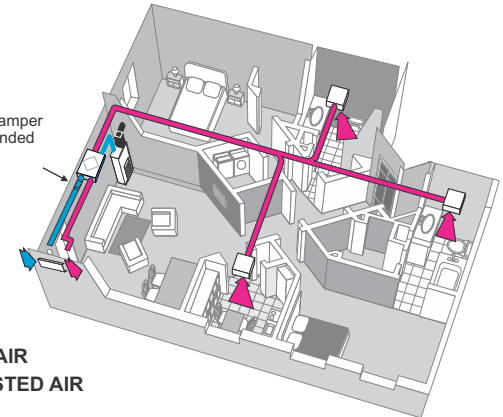
Fully Ducted System

Motorized spring return backdraft damper (Recommended)



ERV with Fan Coil System

Motorized spring return backdraft damper (Highly Recommended due to chimney or stack effect)



FRESH AIR
EXHAUSTED AIR

VENTILATION PERFORMANCE

Model #	Normal Speed Supply/Exhaust (Constant Ventilation)	High Speed Exhaust (Activated by switch)	Maximum Power Rating 120V / 1 / 60Hz
RERV-S100 (1) (Single Washroom)	20 ~ 55 CFM variable	70 ~ 110CFM variable	1.10 Amp.
RERV-S100 (2) (Two Washrooms)	30 ~ 95 CFM variable	100 ~ 154 CFM variable	1.50 Amp.

Note:

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

SOUND:

29 (L/s) @ 0.2 (IN. W.G.)	1.4 sonos (@ 50 Pa)
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* Normal / High Speed and air balancing can be achieved by adjusting speed controller knob located on the main control board of the HRV/ERV.

ENERGY PERFORMANCE

RERV S100		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	1.01	68	66	77	48 %
	ii	0	32	36	77	1.00	78	65	75	46 %
	iii	0	32	44	93	1.00	98	64	74	42 %
	iv	-25	-13	28	60	1.06*	63	48	74	30 %
Cooling	v	35	95	31	66	0.98	72	48**	67	47 %

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

** Indicate Total Recovery Efficiency not Sensible Recovery Efficiency

Contractor:		RERV-S100		
Architect:	Job:	Date	Superse.des	Drawing No.
Engineer:	Date Submitted:	02/02/16		Rev. 4

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