



Shop Drawing RERV-S200ES(ECM)

ECM SERIES (Enthalpy Core)

Features

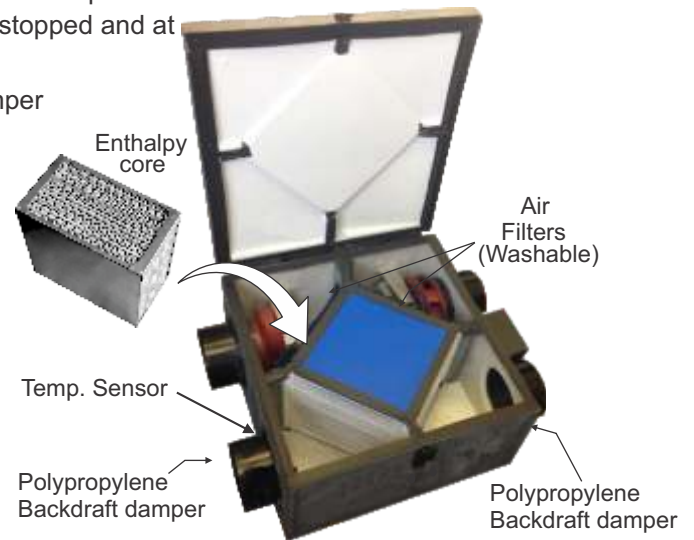
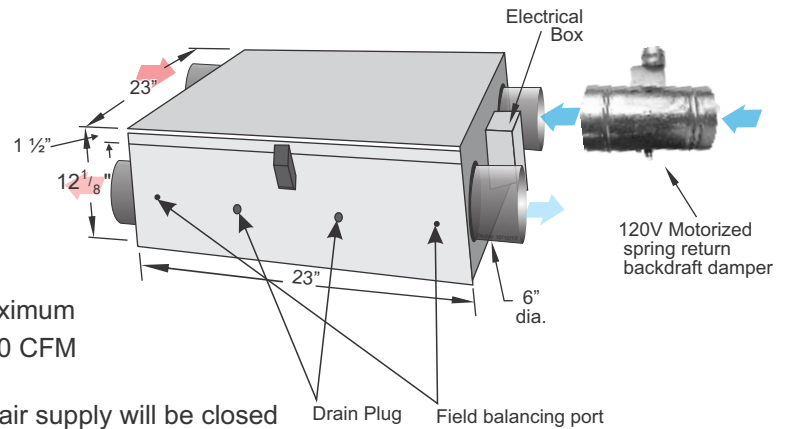
- Over all size 23" (W) x 23" (D) x 12.125" (H)
- Power ratings: 115V / 1 / 60 Hz, 2.5 Amp., Standby current is 7W only
- Washable high efficiency **Enthalpy core** suitable for -25°C
- Drainless design
- High efficiency energy saving permanently lubricated variable speed ECM motors for air balancing
- Suitable for horizontal & vertical installation
- Tilted core design for maximum efficiency
- Automatic fan cycled defrost
- Exhaust up to four washrooms
- Suitable for Corridor
- Two Speed exhaust (High / Low) - up to 250 CFM maximum
- Continuous fresh air supply at Normal speed up to 150 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 prevent core from freezing
- Weight approximately 52 lbs., 2 years warranty on parts

Accessories (Included):

- Mounting brackets

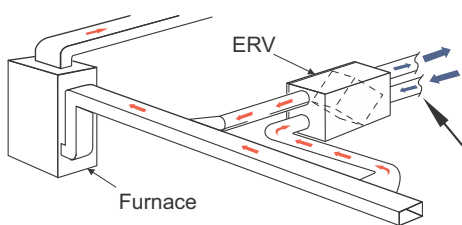
Optional:

- Motorized Damper (120V AC)
- Pipe and "T" connector
- Time Delay Switch (120V AC)
- 2 sets (Webbing/Brackets/Ladder lock)
- Intermittent Switch, 5VDC (IC100-5V)
- Push button timer switch, 20/40/60 Min., 5VDC (TC100-5V)

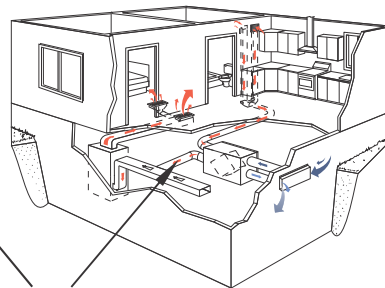


Installation Options for house

Furnace Return Air-duct Connection

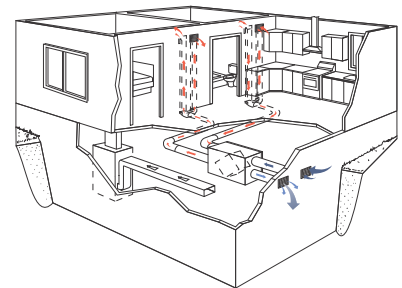


Semi Ducted System



Motorized spring return damper
(Highly Recommended)

Fully Ducted System

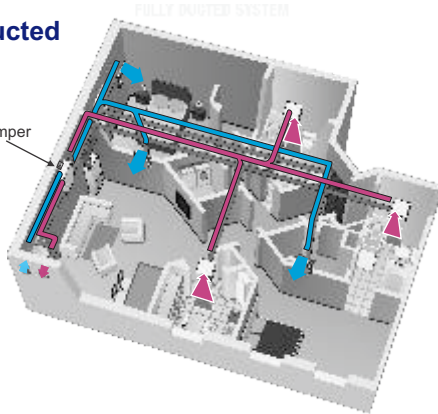


RERV-S200ES(ECM)

Installation Options for High-Rise Condominium

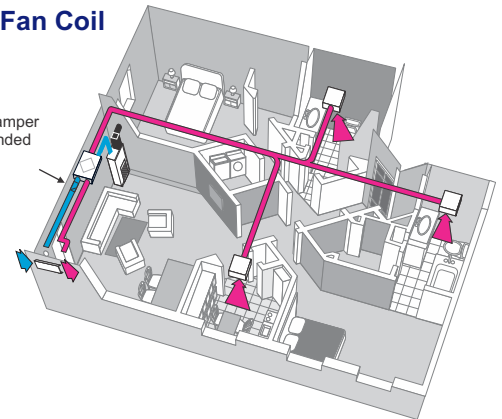
Fully Ducted System

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

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.

VENTILATION PERFORMANCE

Model #	Normal Speed Supply/Exhaust (Constant Ventilation)	High Speed Exhaust (Activated by switch)	Maximum Power Rating 120V / 1 / 60Hz
RERV-S200ES (ECM)	50 ~ 150 CFM variable	50 ~ 250 CFM variable	2.5 Amp.

SOUND(@ 5ft. away):

30 (L/s) @ 0.2 (IN. W.G.)	1.5 sones (@ 50 Pa)
85 (L/s) @ 0.2 (IN. W.G.)	3.0 sones (@ 50 Pa)

ENERGY PERFORMANCE

RERV-S200ES (ECM)		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	31	65	1.04	75	75	89	57 %
	ii	0	32	69	146	1.05	125	71	82	48 %
	iii	0	32	85	180	0.97	148	68	78	45 %
	iv									
Cooling	vi	35	95	31	65	1.00	75	56**	76	56 %
	vii	35	95	50	107	0.97	101	51**	75	47 %

** Indicate Total Recovery Efficiency not Sensible Recovery Efficiency

Contractor:		RERV-S200ES(ECM)		
Architect:	Job:	Date	Superse.des	Drawing No.
Engineer:	Date Submitted:	08/12/22		

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