

NEW

MAXUM

RHRV-S200A
RHRV-S200P
RERV-S200ES

HEAT & ENERGY RECOVERY VENTILATORS



***SENSIBLE CHOICE
TO IMPROVE
YOUR INDOOR AIR
QUALITY &
HEALTHY LIVING***

- *Slim line compact units*
- *Tilted core design for maximum efficiency*

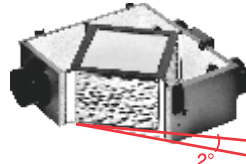
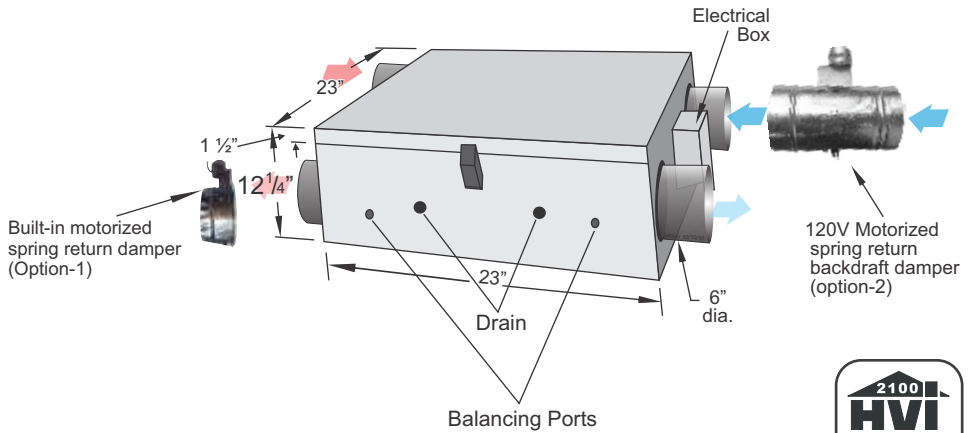
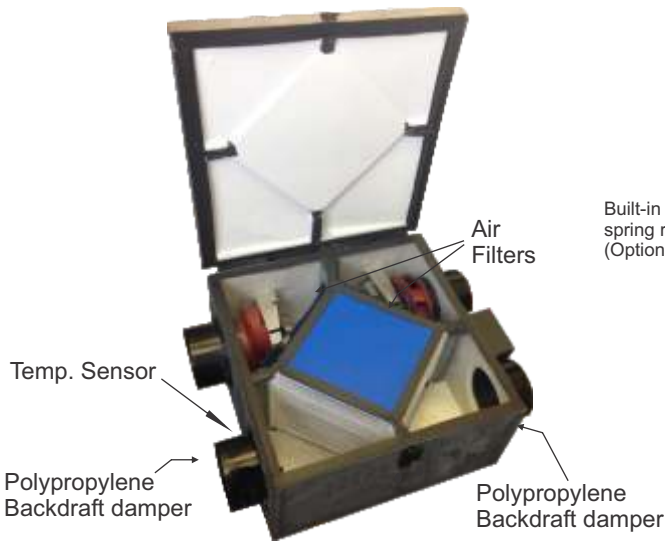


REVERSOMATIC
MANUFACTURING LIMITED

790 Rowntree Dairy Road, Woodbridge, ON Canada L4L 5V3
Tel: 905.851.6701 Fax: 905.851.8376
Toll Free: 1.800.810.3473 (Canada) / 1.866.890.6457 (U.S.A.)
www.reversomatic.com • info@reversomatic.com



These **HRV / ERVs** are especially designed for house to provide constant fresh air into the living room and bedrooms while exhausting same amount of stale air from the washrooms and kitchen. The low speed exhaust is constantly provided through the balancing box located in the washrooms or kitchen. The high speed can be achieved to remove excessive humidity and odours by initiating the switches located in the washrooms. All units are equipped with state of the art fan cycled defrost mechanism. These units are equipped with a sophisticated control that can be used in conjunction with Furnace.



TILTED CORE
All models have Tilted core design that provides the most efficient drainage for horizontal installation

FEATURES

- Over all size 23" (W) x 23" (D) x 12.25" (H)
- Power ratings: 115V / 1 / 60 Hz, 1.5 Amp., Standby current is 7W only
- Washable Enthalpy core and Filters
- 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 four washrooms
- Suitable for Corridor
- Two Speed exhaust (High / Low) - up to 225 CFM maximum
- Continuous fresh air supply at Normal speed up to 150 CFM
- Furnace / Fan-coil / the Heat Pump Interlock
- Dual Protection: If exhaust fan fails, the outside fresh-air supply will be closed by shutting off the supply motor and the relay contact for the 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 the core from freezing
- Weight approximately 52 lbs., 2 years warranty on parts

SELECT HRV/ERV FOR YOUR CLIMATE ZONE

HRVs are recommended for colder climates. ERVs are designed for warm-humid climates with long cooling seasons.



HRV	Severe Conditions	HRV, ERV (optional)	Pacific Conditions
	Moderate Conditions	ERV	High Humidity
	Dry Climate		

U.S. Department of Energy climate zones map

VENTILATION AND ENERGY PERFORMANCE

VENTILATION PERFORMANCE

Model #	Normal Speed Supply/Exhaust (Constant Ventilation)	High Speed Exhaust (Activated by switch)	Maximum Power Rating 120V / 1 / 60Hz
RHRV-S200A	50 ~ 150 CFM variable	100 ~ 225 CFM variable	1.50 Amp.
RHRV-S200P	50 ~ 150 CFM variable	100 ~ 225 CFM variable	1.50 Amp.
RHRV-S200ES	50 ~ 150 CFM variable	100 ~ 225 CFM variable	1.50 Amp.

ENERGY PERFORMANCE

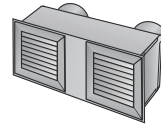
RHRV-S200A	Supply Temperature		Net Airflow		Supply / Exhaust Flow Ratio	Average Power (Watts)	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Net Moisture Transfer	
	°C	°F	L/S	CFM						
Heating	i	0	32	30	63	1.01	76	69	84	1 %
	ii	0	32	37	78	1.04	85	67	81	2 %
	iii	0	32	48	101	1.02	96	65	78	0 %
	iv	0	32	63	133	1.03	112	62	73	1 %
	v	-25	-13	30	63	0.96*	75	62	82	2 %
Cooling	vi	35	95							

RHRV-S200P	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	24	50	1.01	64	72	86	---
	ii	0	32	32	67	1.06	76	71	85	---
	iii	0	32	44	94	1.06	90	69	78	---
	iv	0	32	67	141	1.03	118	65	74	---
	v									
Cooling	vi	35	95							

RERV-S200ES	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	78	74	89	58 %
	ii	0	32	51	107	1.01	106	73	84	54 %
	iii	0	32	69	146	1.05	130	70	82	47 %
	iv	0	32	85	180	0.97	156	68	78	45 %
	v									
Cooling	vi	35	95	31	65	1.00	78	56**	76	56 %
	vii	35	95	50	107	0.97	110	51**	75	47 %

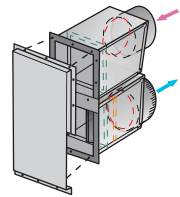
* The Supply / Exhaust Flow Ratio at 22°C to the start of the 72 Hour Cold Weather Test
 ** Indicate Total Recovery Efficiency not Sensible Recovery Efficiency

ACCESSORIES

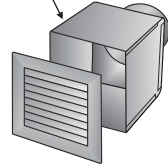


Double Vent with Extruded Aluminum Grilles

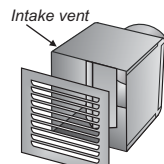
Exhaust and Intake (DVG-200)
Optional:
 Stamped Aluminum Grilles



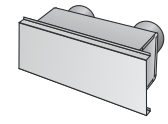
DVV-100 - Double Vent c/w Vertical Exhaust / Intake hood



Single Vent (SVE) with Extruded Aluminum Grille (RSVG100)
Optional:
 Stamped Grille



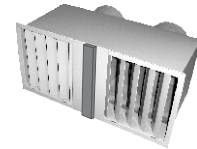
Single Vent (SVI) with Standard Stamped Aluminum Grille
Optional:
 Extruded Aluminum Grille



Double Vent with Side Exhaust / Intake (DVS-100)



Time Delay Switch (120V AC)
 Activates the unit on high speed for 5-30 minutes. Suitable for Superior Series and Compact Units. (TC100-120)



Double Vent for window panel Exhaust and Intake (DV-200)



Time Delay Switch (120V AC)
 24 Hour Programmable Timer. Suitable for Superior Series and Compact Units. (TC100-120P)



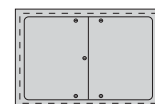
Electronic Timer Switch (5V DC)
 Activates the unit on high speed for 20, 40, 60 minutes. Suitable for Deluxe, Superior & Compact Units. (TC100)



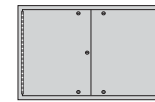
Motorized Damper
 5 inch diameter spring return round damper
 NSPRD024-5 (24V DC) & SPRD110-5 (110V AC)

Access Doors

FLAT - ADF 26



PROJECT - ADP 28



DETACHABLE - ADD 28



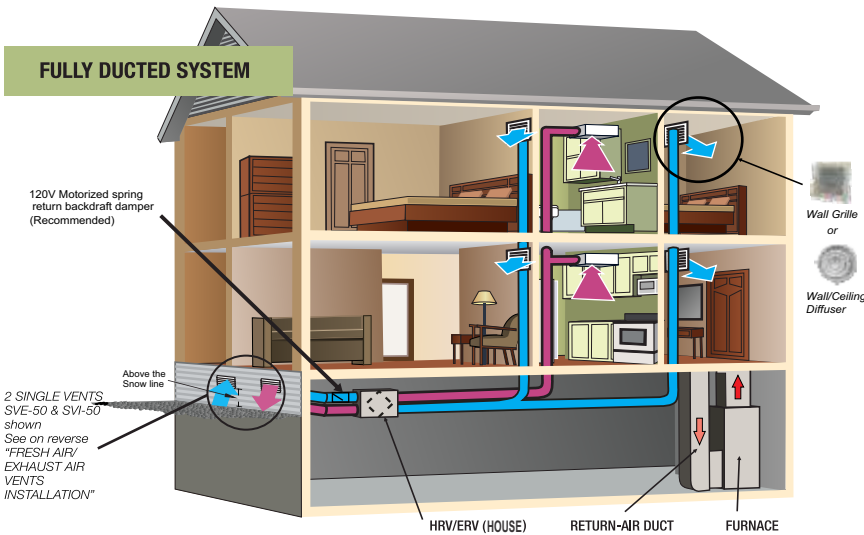
Intermittent Switch (IC 100-5V)
 Low/High/Intermittent/Off mode. In Intermittent mode, HRV/ERV runs for 20 min. in low speed & 40min. OFF. and cycles Continuously. (Also available w/o OFF mode)



Dehumidistat
 Wall-mount unit allows to control indoor humidity level. Suitable for Superior Series & Compact Units. (RH100)

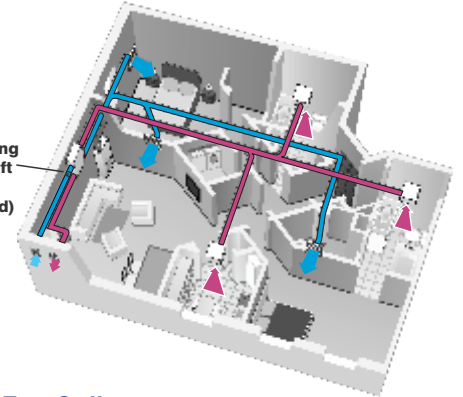
HEAT & ENERGY RECOVERY VENTILATORS

FULLY DUCTED SYSTEM



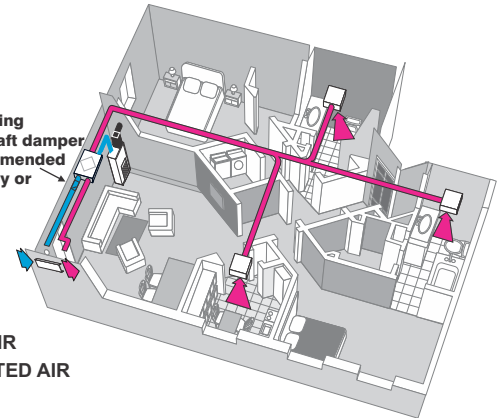
Fully Ducted System

Motorized spring return backdraft damper (Recommended)

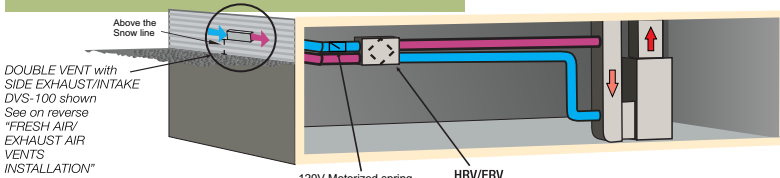


HRV with Fan Coil System

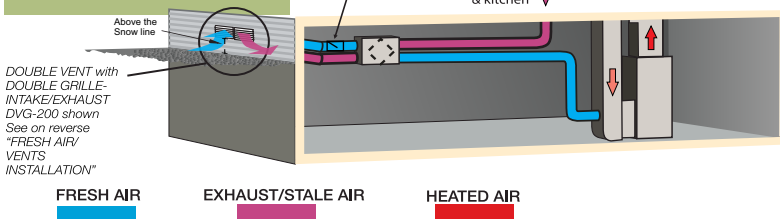
Motorized spring return backdraft damper (Highly Recommended due to chimney or stack effect)



FURNACE RETURN AIR-DUCT CONNECTION



SEMI DUCTED SYSTEM



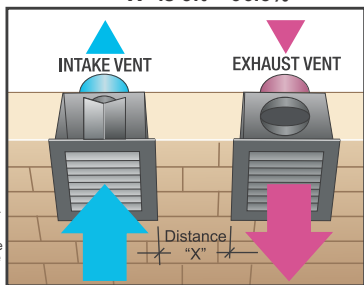
Blue = FRESH AIR
Pink = EXHAUSTED AIR

Note:

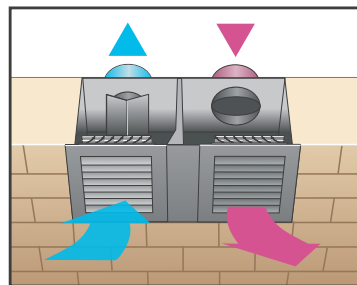
- HRV must be connected to drain.
- ERV does not require any drain. However, we recommend to connect ERV to drain in areas where extreme cold weather conditions are expected.

FRESH AIR / EXHAUST AIR VENTS INSTALLATION

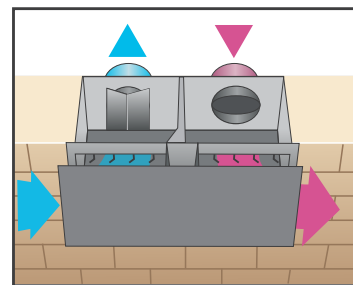
Exhaust (SVE-50) & Intake (SVI-50) vents c/w extruded aluminum grilles
Re - Circulation Efficiency
If distance "X" is 5ft - 99.7%
"X" is 3ft - 96.5%



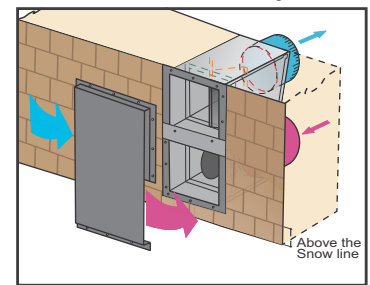
Double Vent (DVG-200) c/w extruded aluminum grilles
Re - Circulation Efficiency - 95%



Double Vent (DVS-100) c/w side Exhaust / Intake hood
Re - Circulation Efficiency - 98%



Double Vent (DVV-100C) c/w vertical Exhaust / Intake hood
Re - Circulation Efficiency - 98%



All vents are tested @ 400 Pa according to ASTM E547-00 for water Penetration test.
(tested @ 5-10 mph wind velocity)

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

*Specially designed for Project Condo units.



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