

NEW

MINI

**RHRV-80P
RERV-80**

HEAT & ENERGY RECOVERY VENTILATORS



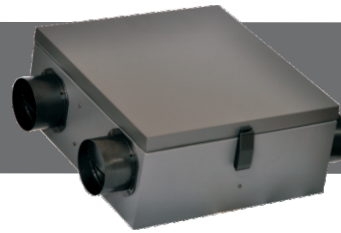
***SENSIBLE CHOICE
TO IMPROVE
YOUR INDOOR AIR
QUALITY &
HEALTHY LIVING***

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



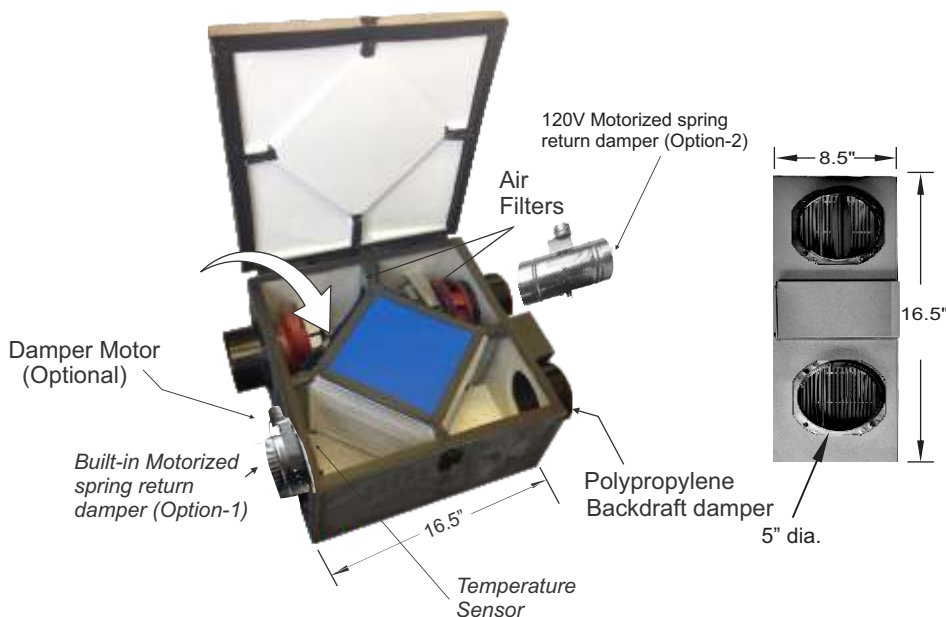
Mini Unit

RERV-80 RHRV-80P



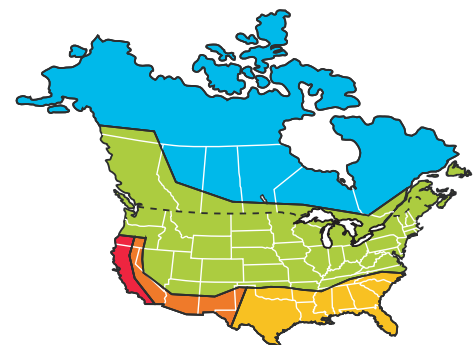
FEATURES

- Over all size 16.5" (W) x 16.5" (D) x 8.5" (H)
- Power ratings: 115V / 1 / 60 Hz, 0.70 Amp., Standby current is 7W only
- Washable Enthalpy core and Filters
- **Drainless design**
- High efficiency, energy saving, permanently lubricated, backward inclined, non- over loading, 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 90 CFM
- Continuous fresh air supply up to 20-60 CFM
- Furnace / Fan-coil / Heat Pump Interlock
- *Dual Protection:* If the exhaust fan fails, the outside fresh-air supply will be closed automatically (by the optional motorized damper) and 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.
- Weight approximately 20 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	HRV, ERV (optional)
Severe Conditions	Pacific Conditions
Moderate Conditions	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) @ 50 Pa	High Speed Exhaust (Activated by switch) @ 50 Pa	Maximum Power Rating 120V / 1 / 60Hz
RERV-80 (Single Washroom)	20 ~ 60 CFM variable	60 ~ 90 CFM variable	0.75 Amp.
RHRV-80P (Single Washroom)	20 ~ 60 CFM variable	60 ~ 90 CFM variable	0.75 Amp.

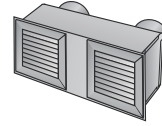
ENERGY PERFORMANCE

RERV 80	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	18	38	1.02	30	63	74	0.42
	ii	0	32	22	47	1.02	32	62	70	0.40
	iii	0	32	30	64	1.04	38	58	67	0.36
	iv									
	v	-25	-13	30	64	1.02	38	56	66	0.39
Cooling	vi	35	95	22	47	1.00	32	33**	62	0.24
	vii	35	95	30	64	0.99	40	29**	58	0.18

RHRV-80P	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	18	38	1.00	31	74	81	0.01
	ii	0	32	22	47	1.02	33	72	79	0.02
	iii	0	32	30	64	1.02	39	70	74	0.01
	iv									
	v	-25	-13	30	64	1.01	38	55	65	0.01

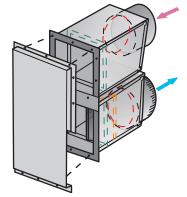
** Indicate Total Recovery Efficiency not Sensible Recovery Efficiency

ACCESSORIES

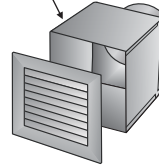


Double Vent with Extruded Aluminum Grilles (DVG-200)

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

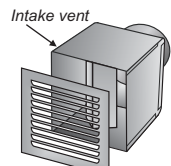


DVV-100 - Double Vent c/w Vertical Exhaust / Intake hood



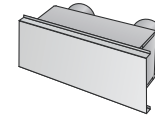
Single Vent (SVE) with Extruded Aluminum Grille (RSVG100)

Optional: Stamped Grille



Single Vent (SVI) with Standard Stamped Aluminum Grille

Optional: Extruded Aluminum Grille

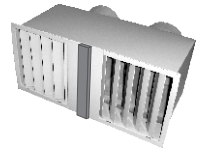


Double Vent with Side Exhaust / Intake (DVS-100)



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)

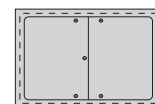


Motorized Damper

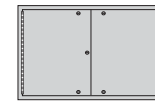
5 inch diameter spring return round damper
NSPRD024-5 (24V DC) & SPRD110-5 (110V AC)

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)

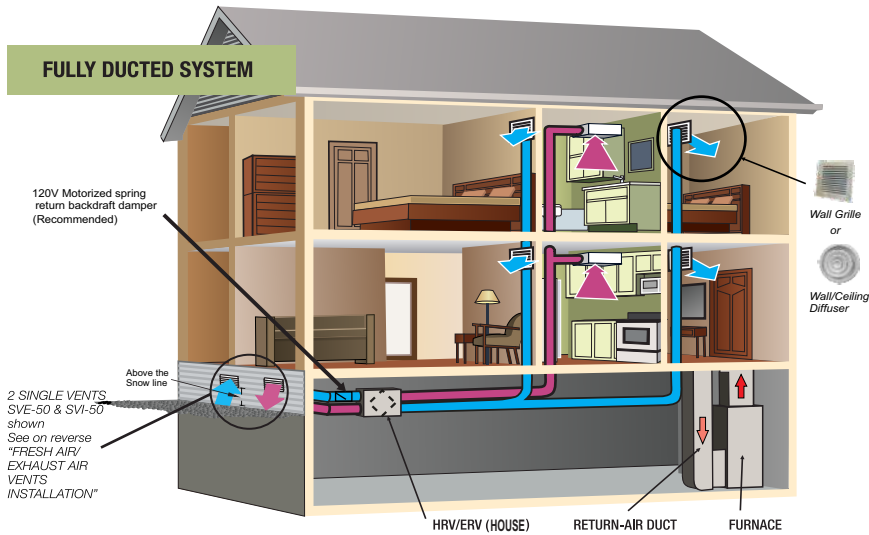


Dehumidistat

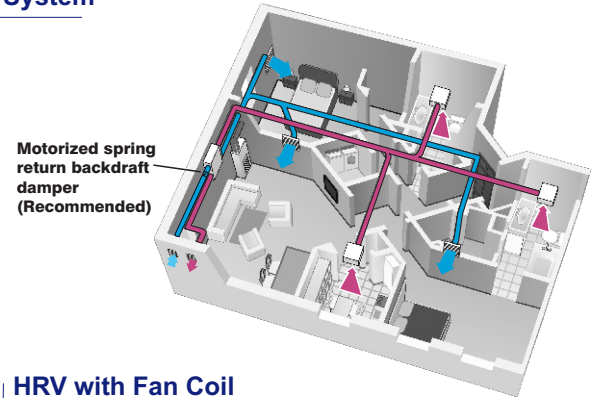
Wall-mount unit allows to control indoor humidity level. Suitable for Superior Series & Compact Units. (RH100)

HEAT & ENERGY RECOVERY VENTILATORS

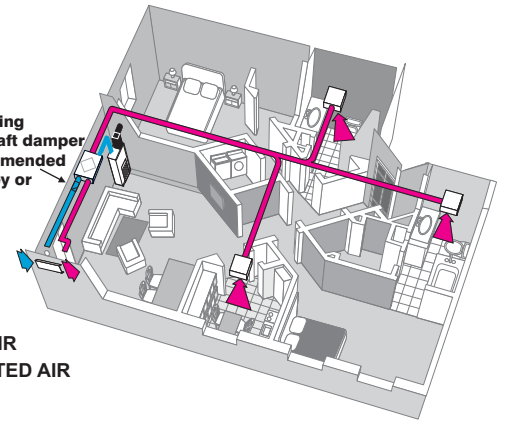
FULLY DUCTED SYSTEM



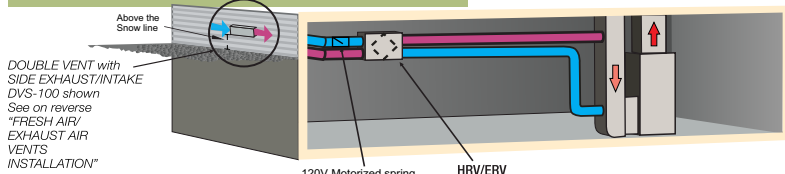
Fully Ducted System



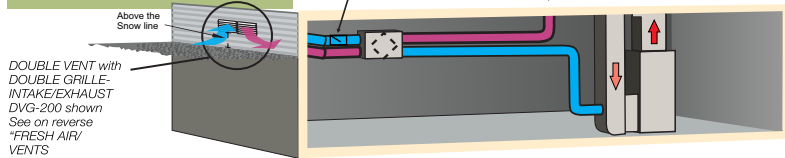
HRV with Fan Coil System



FURNACE RETURN AIR-DUCT CONNECTION



SEMI DUCTED 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.

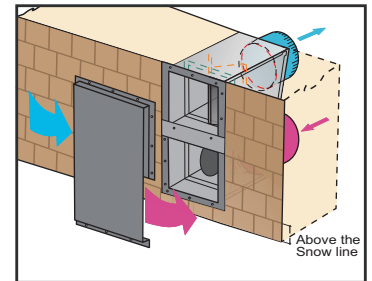
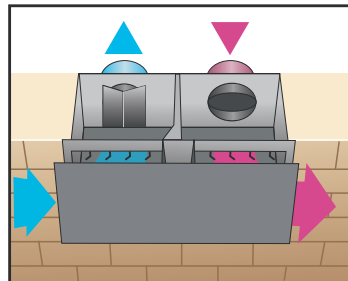
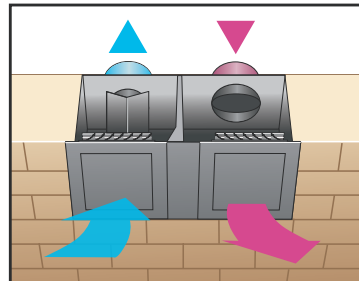
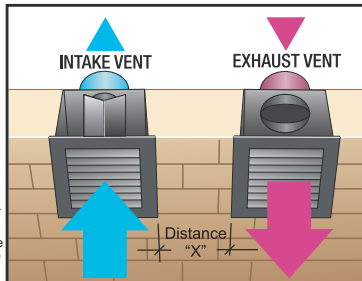
FRESH AIR / EXHAUST AIR VENTS INSTALLATION

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.

