HEW

COMPACT

HEAT & ENERGY RECOVERY VENTILATORS



SENSIBLE CHOICE TO IMPROVE YOUR INDOOR AIR QUALITY & HEALTHY LIVING





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





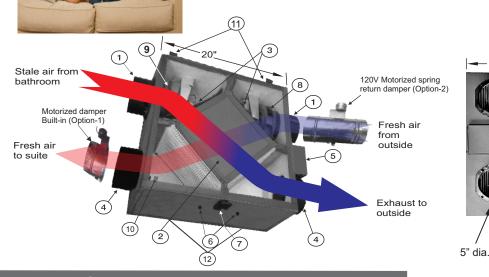


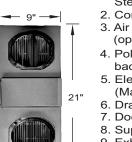






These HRV / ERVs slim line compact especially designed are for house to provide the constant fresh air into the living room and bedrooms while exhausting the same amount of stale air from the washrooms and kitchen. The low speed exhaust is constantly provided through the balancing box located in the 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 the Furnace.





- 1. Polypropylene / Steel collar
- 2. Core
- 3. Air filters (MERV-4) (optional up to MERV-13)
- 4. Polypropylene/Steel backdraft damper
- 5. Electrical box (Main Controller)
- 6. Drain
- 7. Door latch
- 8. Supply blower
- 9. Exhaust blower
- 10. Temp. Sensor
- 11. Door Hinges
- 12. Balancing Ports







TILTED CORE

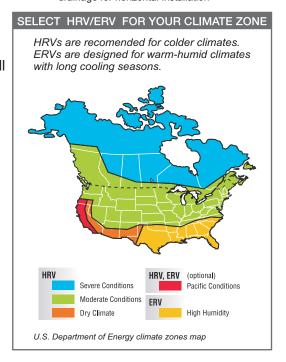
All models have Tilted core design that provides the most efficient drainage for horizontal installation

FEATURES

- Over all size 20" (W) x 21" (D) x 9" (H), App. weight 32 lbs.
- Power ratings: 115V/1/60 Hz. 0.70 Amp.
- HRV is available with washable Aluminum (RHRV-C100A) or Polypropylene (RHRV-C100P) core
- ERV is available with Enthalpy core (RERV-C100), drainless design
- High efficiency energy saving permanently lubricated variable speed PSC motors for air balancing
- Furnace / Interlock
- Dual Protection: If the exhaust fan fails, the outside fresh-air supply will be closed by shutting off the supply motor and motorized damper interlocking relay contact will be opened. Furnace low speed will be stopped and at normal operation no air will be drawn into the system
- Automatic non-recirculating type defrost
- washable filters
- Tilted core design
- continuous fresh air supply up to 80 CFM (at normal speed)
- Ideal for horizontal and vertical installation
- 4 adjustable mounting straps and 2 drain plugs are included
- Exhaust up to two washrooms

OPTIONAL ACCESSORIES:

Push button Timer Switches, Intermittent Switch, dehumidistat, time delay switch, motorized spring return damper (Option 1 or 2) and mounting brackets.



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-C100	20 ~ 80 CFM variable	70 ~ 115 CFM variable	0.70 Amp.	
RHRV-C100A	20 ~ 80 CFM variable	70 ~ 115 CFM variable	0.70 Amp.	
RHRV-C100P	20 ~ 80 CFM variable	70 ~ 115 CFM variable	0.70 Amp.	

ENERGY PERFORMANCE

RERV C100		Supply Temperature		Net Airflow		Supply / Exhaust	Average Power	Sensible Revcovery	Apparent Sensible	Net Moisture
		°C	°F	L/S	CFM	Flow Ratio	(Watts)	Efficiency	Effectiveness	Transfer
	i	0	32	22	46	1.00	36	70	80	56 %
Heating	ii	0	32	30	64	1.00	42	69	76	52 %
Hea	iii	0	32	38	81	1.02	48	66	73	48 %
	iv	-25	-13							
Cooling	٧	35	95	22	46	0.97	36	54**	74	52 %
	vi	35	95	30	64	0.98	44	51**	70	47 %

RHR		Supply Temperature		Net Airflow		Supply / Exhaust	Average Power	Sensible Revcovery	Apparent Sensible	Net Moisture
C100A		°C	°F	L/S	CFM	Flow Ratio	(Watts)	Efficiency	Effectiveness	Transfer
	i	0	32	30	64	1.03	70	58	70	2 %
Heating	ii	0	32	36	77	1.02	84	56	67	2 %
Hea	iii	0	32	43	91	1.02	100	55	65	3 %
	iv	-25	-13	30	64	0.96*	75	60	72	2 %

RHRV- C100P		Supply Temperature		Net Airflow		Supply / Exhaust Flow Ratio	Average Power (Watts)	Sensible Revcovery Efficiency	Apparent Sensible Effectiveness	Net Moisture Transfer
		0	32	23	48	1.01	36	80	88	0.05
ng		_	64	1.02	46	77	86	0.03		
Heating	iii	0	32	33	70	1.00	48	77	83	0.02
-	iv									
	٧	-25	-13	37∆	77∆	0.99*	46∆	55∆	76∆	0.01∆
	vi	-25	-13	26∆	56∆	1.11*	34∆	57∆	77∆	0.01△
Cooling	vii									

^{*} The Supply / Exhaust Flow Ratio at 22°C prior to the start of the 72 Hours Cold Weather Test

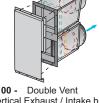
ACCESSORIES



Double Vent with Extruded Aluminum Grilles

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:

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 (TC100-120)



Extruded Aluminum

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)

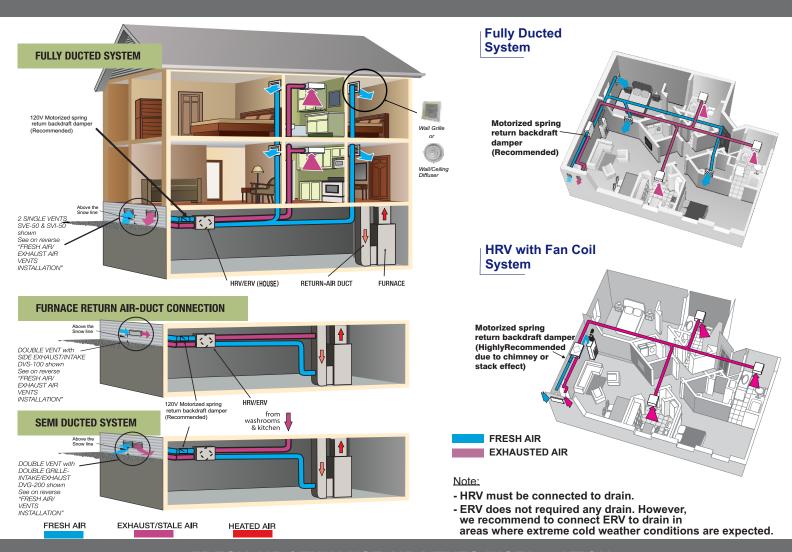
Low/High/Intermittent/Off mode.
In Intermittent mode, HRV/ ERV runs for 20 min. in low speed & 40min. OFF. and cycles Continuously. (Also available w/o OFF mode)



Dehumidistat

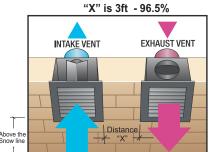
Wall-mount unit allows to control indoor humidity level. Suitable for Superior Series & Compact Units. (RH100)

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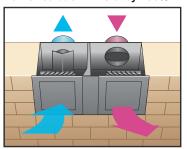


FRESH AIR / EXHAUST AIR VENTS INSTALLATION

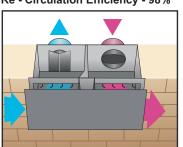
Exhaust (SVE-50) & Intake (SVI-50) vents c/w extruded aluminum grilles Re - Circulation Efficiency If distance "X" is 5ft - 99.7%



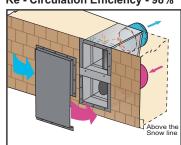
Double Vent (DVG-200) c/w extruded aluminum grilles Re - Circulation Efficiency - 95%



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%



*Specially designed for Project Condo units

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.

