



<u>Model No.</u> RHRV-D100A ES (ECM) RHRV-D100P ES (ECM) RERV-D100 ES (ECM)

 With built-in true Automatic Electronic Air-balancing and Constant Flow Technology.

• High efficiency energy saving, permanently lubricated variable speed, ECM (Electronically Commutated) brushless DC motor for air balancing.

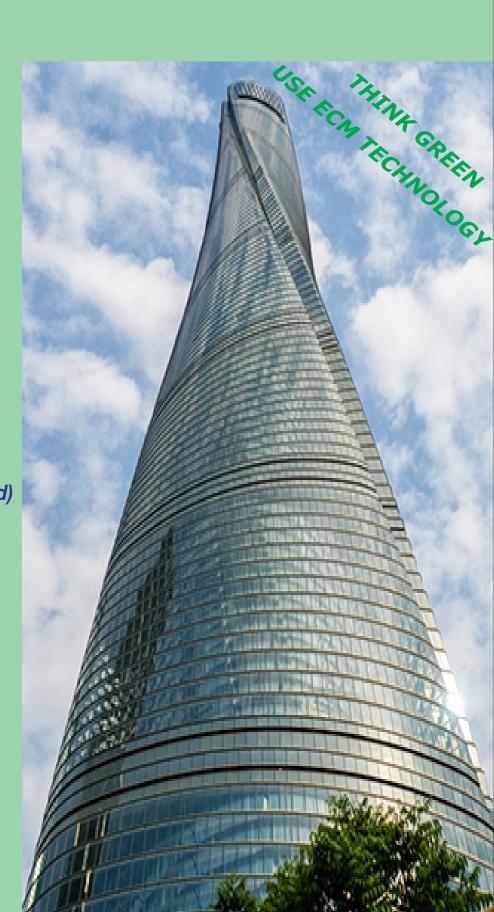
Slim line compact unit.

A SENSIBLE CHOICE TO IMPROVE YOUR INDOOR AIR QUALITY FOR HEALTHY LIVING





DELUXE ECM SERIES HEAT & ENERGY RECOVERY VENTILATORS



Deluxe ECM Unit

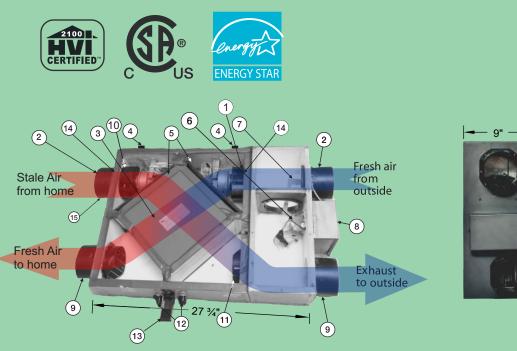
RHRV-D100A ES RHRV-D100P ES RERV-D100 ES

FEATURES

- Built-in true automatic electronic air-balancing technology
- Over all size 27 ³/₄" (W) x 21" (D) x 9" (H) App. weight 55 lbs.
 HRV is available with washable Aluminum (RHRV-D100A) or
- HRV is available with washable Aluminum (RHRV-D100A) or Polypropylene (RHRV-D100P) core - suitable up to -40°C
- ERV is available with Enthalpy core (RERV-D100) suitable up to -25°C (drainless design)
- Power ratings: 115V/1/60 Hz, 0.70 Amp.
- Standby current is 7W
- High efficiency energy saving permanently lubricated ECM motor for continuous operation
- Fully automatic defrost (below -5°C)
 - Recirculating (Standard)
 - Non-recirculating (Optional)
- Adjustable 4-Normal/Low Speeds and 4-High Speeds
- Unique electronic control board allows the unit to return to the last memory mode when power restores after failure
- Furnace / Fan-coil / Heat Pump Interlock
- Ideal for horizontal and vertical installation
- Dual Protection: If for any reason HRV/ERV fan failure is detected, the outside fresh-air supply will be closed and interlocking relay contact will be opened. Fan Coil/Furnace low speed will be stopped and at normal operation and no air will enter into the system
- In "off" mode or power failure, the defrost damper is closed to prevent air entering in to the HRV/ERV
- Meets all standards and building code requirements
- Air flow: 45 95 CFM (normal operation), Max. 135 CFM
- For homes and suites up to 2000 sq. ft.
- 4 Mounting brackets and drain plugs are included
- Washable filters. 2 years warranty on parts

OPTIONAL ACCESSORIES:

Push button Timer Switches, adjustable mounting straps or chain mounting system.





- 1. Supply Motor (ECM)
- 2. Polypropylene collar
- 3. Cross flow heat-exchanger
- 4. Door hinges
- 5. Air filters (MERV-4) (optional up to MERV-13)
- 6. Defrost motor
- 7. Defrost damper Assembly
- 8. Electrical box
- (Main Controller)
- 9. Polypropylene backdraft damper
- 10. Exhaust Motor (ECM)
- 11. Safety switch

21"

- 12. Drains
- 13. Door latch
- 14. Air Flow Sensor
- 15. Humidity Sensor

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-D100 ES	20 ~ 90 CFM variable	70 ~ 155 CFM variable	0.70 Amp.	
RHRV-D100A ES	20 ~ 90 CFM variable	70 ~ 155 CFM variable	0.70 Amp.	
RHRV-C100P ES	20 ~ 90 CFM variable	70 ~ 155 CFM variable	0.70 Amp.	

ENERGY PERFORMANCE

RERV- D100ES		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	30	64	0.99	20	72	84	41 %
ting	ii	0	32	36	77	1.00	25	70	79	39 %
Heating	iii	0	32	42	89	1.02	28	69	78	35 %
	iv	-25	-13	30	64	0.97*	21	64	78	36 %
Cooling	٧	35	95	22	46	0.99	16	53**	73	53 %
	vi	35	95	30	64	1.00	20	50**	71	50 %

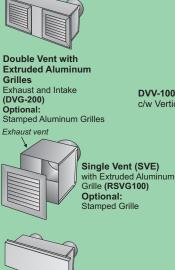
* The Supply / Exhaust Flow Ratio at 22°C to the start of the 72 Hour Cold Weather Test ** Indicate Total Recovery Efficiency not Sensible Recovery Efficiency

RHRV- D100A ES		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	30	64	1.03	20	68	78	2 %
ting	ij	0	32	36	77	1.02	25	66	77	2 %
Heating	iii	0	32	43	91	1.02	28	65	76	3 %
	iv	-25	-13	30	64	0.96*	20	62	72	2 %
Cooling	v	35								

RHRV- D100P ES		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
	Т	0	32	23	48	1.02	28	78	84	-1 %
ting	ii	0	32	30	64	1.02	34	75	81	-2 %
Heating	iii	0	32	36	77	0.99	40	73	77	-3 %
	iv	0	32	42	89	1.00	48	71	74	-3 %
	v	-25	-13	29	61	0.96*	41	62	76	3 %
	vi	-25	-13	21	44	0.93*	32	67	81	2 %

* Indicates that the calculation is based on last 60 hours of the 72 Hour Cold Weather Test

ACCESSORIES



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

Access Doors

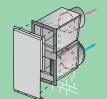


DETACHABLE - ADD 28

SELECT HRV/ERV FOR YOUR CLIMATE ZONE

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





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



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



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



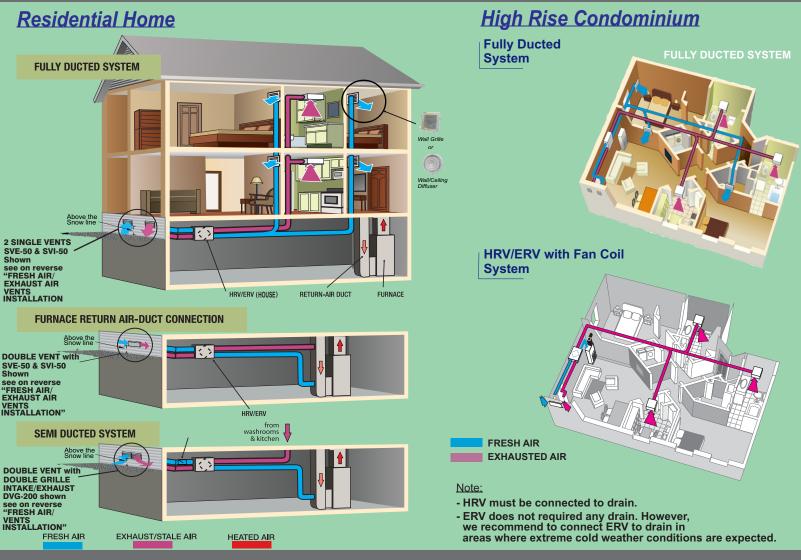
Electronic Timer Switch (5V DC) Activates the unit on high speed for 20, 40, 60 minutes. Suitable for Deluxe, Superior & Compact Units. (TC100)



Intermittent Switch (IC 100-5V)

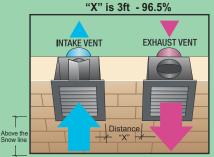
Low/High/Intermittent/Off mode. In Intermittent mode, HRV/ ERV runs for 20 min. in low speed & 40min. OFF. and cycles Continuously.

HEAT & ENERGY RECOVERY VENTILATORS

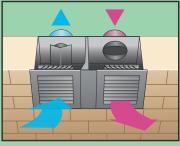


FRESH AIR / EXHAUST AIR VENTS INSTALLATION

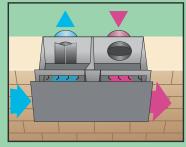
Exhaust (SVE-50) & Intake (SVI-50) vents c/w extruded aluminum grilles Re - Circulation Efficiency If distance "X" is 5ft - 99.7%



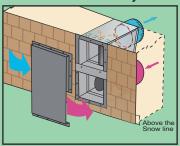
Double Vent (DVG-200) c/w extruded aluminum grilles Re - Circulation Efficiency - 95%



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.

> REVERSOMATIC MANUFACTURING LIMITED

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