



Description:

Heat and Energy Recovery Ventilators are the complete whole house ventilation system designed to bring a continuous supply of fresh air into the house while exhausting an equal amount of stale air.

Features

- 136 CFM airflow rate provides effective ventilation in apartment overcoming high pressure in condo tower duct systems.
- Cross flow core ensures up to 70% SRE.
- Slim casing design (9 1/8") is perfect for in-ceiling installation.
- Build in control board enables Supply and Exhaust fan independent speed adjustment from 0 to 100% right at the job side.
- Fast and simple mounting process thanks to brackets system.
- Automatic recirculation damper (R option) for effective cold protection.
- No drain needed (ERV).

Casing

- Steel casing is covered with high-quality multilayer aluminium and zinc alloy to prevent corrosion. The casing is equipped with a switch to turn the ventilator off when the service panel is opened.

Filter

- Washable MERV 6 air filters in exhaust and supply air streams.
- Optional supply: anti grease aluminum filter.

Defrost system

- Defrost system is activated when the outdoor temperature falls below 23° F (-5° C).
- Recirculation defrost HRV/ERV 100R.
- Fan stop defrost HRV/ERV 100.

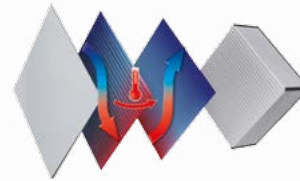
Control

The unit incorporates an integrated automation and control system with following functions:

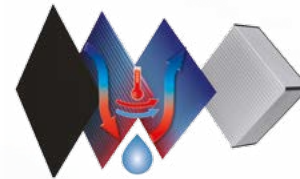
- Operation mode switch.
- Airflow balancing enabled by supply and exhaust fan independent speed adjustment from 0 to 100% (percentage is displayed on built in screen).
- Automatic recovery core frost protection.
- External control device connection (up to 5 at the same time).

Heat recovery core

- Aluminum cross-flow core (HRV 100 (R)) ensures efficient heat recovery.



- Enthalpic core (ERV 100 (R)) provides both heat&humidity recovery. For enthalpic core no drain required.



Fans

- The unit is equipped with supply and exhaust centrifugal fans with backward curved blades and build-in thermal overheating protection with automatic restart. The electric motors and impellers are dynamically balanced.

Warranty

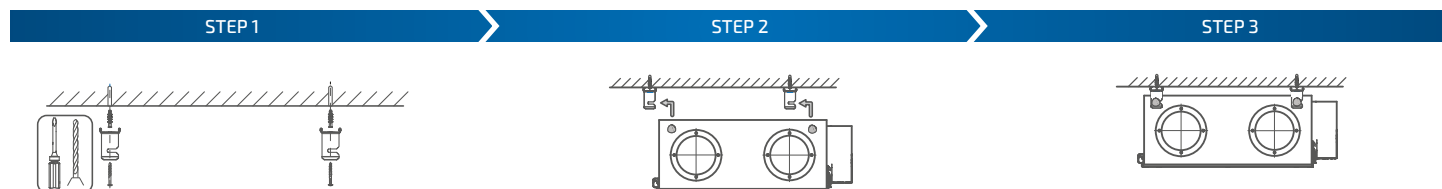
- 5 year warranty

Frigate HRV 100R, ERV 100R



Mounting

- Due to low height of the casing the units offer perfect solution for the false ceiling installation in limited space.
- Brackets system makes mounting process easy and fast.



Accessories



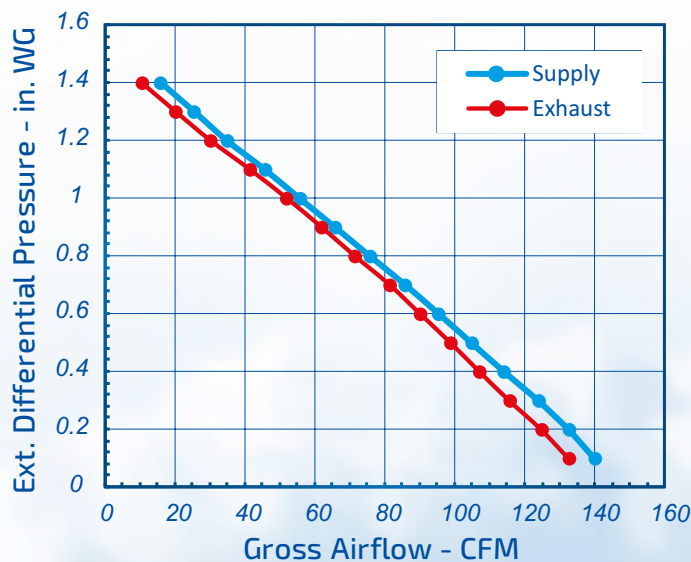
Frigate HRV 100R, ERV 100R



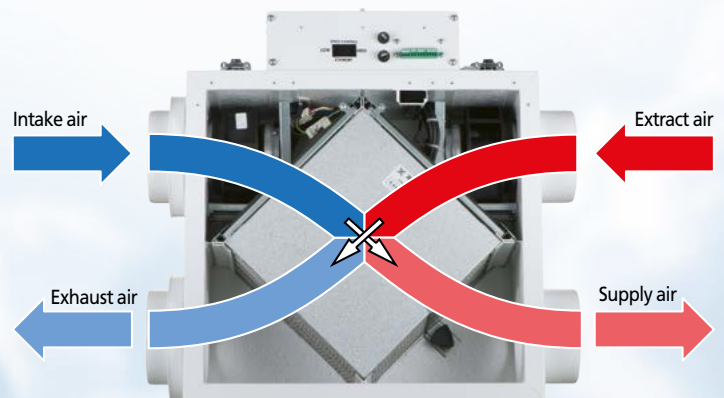
Performance ERV 100 (R)

External Static Pressure		Net Supply Air Flow		Gross Air Flow				Power
				Supply		Exhaust		
Pa	in. W.G.	L/s	cfm	L/s	cfm	L/s	cfm	Watts
25	0.1	64	136	66	140	63	132	153
50	0.2	61	128	63	132	59	125	153
75	0.3	57	120	58	124	55	115	152
100	0.4	52	111	54	114	51	107	152
125	0.5	48	102	49	105	47	99	151
150	0.6	44	92	45	95	43	90	151
175	0.7	39	83	41	86	38	81	150
200	0.8	35	73	36	76	34	71	149
225	0.9	28	60	31	66	29	62	148
250	1	24	50	26	56	25	52	146
275	1.1	19	40	22	46	20	41	145
300	1.2	14	29	16	35	14	30	143
325	1.3	9	19	12	25	10	20	142
350	1.4	5	10	8	16	5	10	140

		Supply Temperature		Net Airflow		Average Power (Watts)	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Net Moisture Transfer
		°C	°F	L/s	cfm				
HEATING	I	0	32	21	44	74	70	86	0.52
	II	0	32	30	64	94	67	81	0.45
	III	0	32	41	87	108	66	79	0.41
	IV								
	V	-25	-13	30	64	96	45	49	0.40
** Total Recovery Efficiency									
COOLING	VI	35	95	20	42	74	27 **	71	0.49



Model	Volts	Max. Watts	Max. Amps
ERV 100R	120V, 60Hz	153	1.3



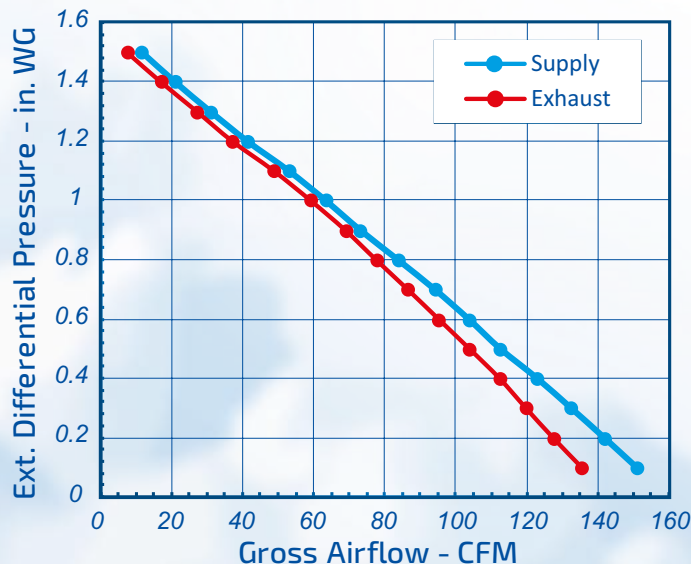
Frigate HRV 100R, ERV 100R



Performance HRV 100 (R)

External Static Pressure		Net Supply Air Flow		Gross Air Flow				Power
				Supply		Exhaust		
Pa	in. W.G.	L/s	cfm	L/s	cfm	L/s	cfm	Watts
25	0.1	69	146	71	151	64	135	153
50	0.2	65	137	67	142	60	127	153
75	0.3	61	128	63	132	57	120	153
100	0.4	56	119	58	123	53	112	153
125	0.5	52	109	53	113	49	104	152
150	0.6	47	100	49	104	45	95	151
175	0.7	43	91	44	94	41	86	150
200	0.8	38	81	40	84	37	78	149
225	0.9	31	67	35	73	33	69	148
250	1	27	57	30	63	28	59	147
275	1.1	22	47	25	53	23	49	146
300	1.2	17	36	20	41	18	37	144
325	1.3	12	26	15	31	13	27	142
350	1.4	8	16	10	21	8	17	141
375	1.5	3	7	6	12	4	7	139

		Supply Temperature		Net Airflow		Average Power (Watts)	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Net Moisture Transfer
		°C	°F	L/s	cfm				
HEATING	I	0	32	20	42	72	62	78	0.06
	II	0	32	30	64	88	61	75	0.05
	III	0	32	40	85	106	61	74	0.06
	IV								
	V	-25	-13	30	64	87	60	63	0.02
** Total Recovery Efficiency									
COOLING	VI	35	95	20	42	72	76**	62	0.02



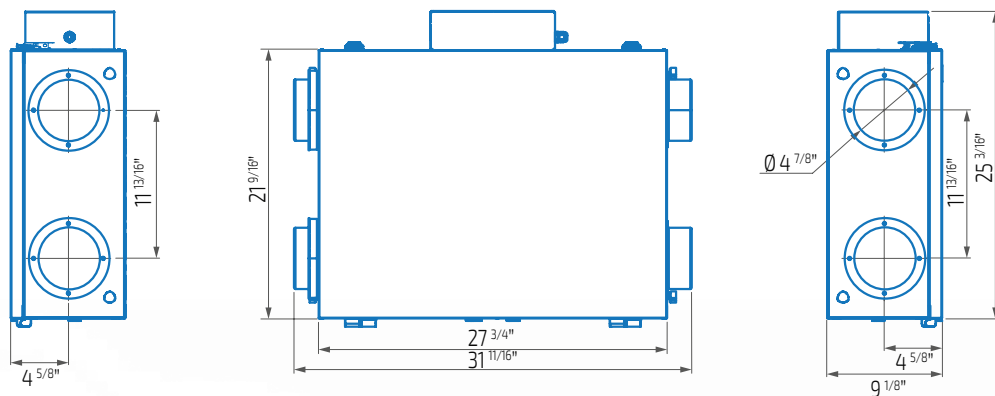
Model	Volts	Max. Watts	Max. Amps
HRV 100R	120V, 60Hz	153	1.3

Frigate HRV 100R, ERV 100R



Dimensions

FRIGATE HRV 100 | FRIGATE ERV 100



FRIGATE HRV 100 R | FRIGATE ERV 100 R

