

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

- 142 CFM airflow rate provides effective ventilation in apartment overcoming high pressure in condo tower duct systems.
- Cross flow core ensures up to 63% SRE.
- Slim casing design (9 1/16") 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 120R.
- Fan stop defrost HRV/ERV 120.

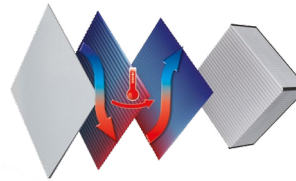
Control

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

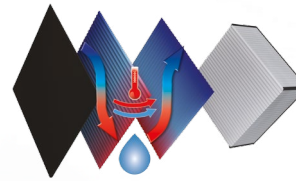
- Operation mode switch.
- Airflow balancing enabled by supply and exhaust fan independent speed adjustment from 0 to 100% (percentage is displayed on built in screen).
- Automatic recovery core frost protection.
- External control device connection (up to 5 at the same time).

Heat recovery core

- Aluminum cross-flow core (HRV 120 (R)) ensures efficient heat recovery.



- Enthalpic core (ERV 120 (R)) provides both heat&humidity recovery. For enthalpic core no drain required.



Fans

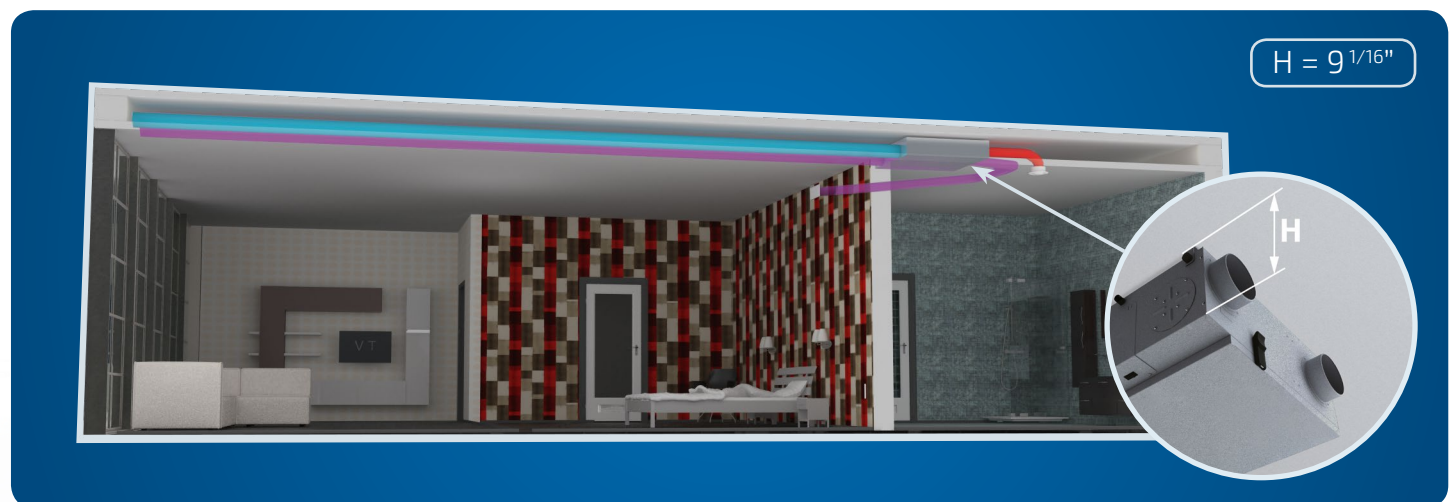
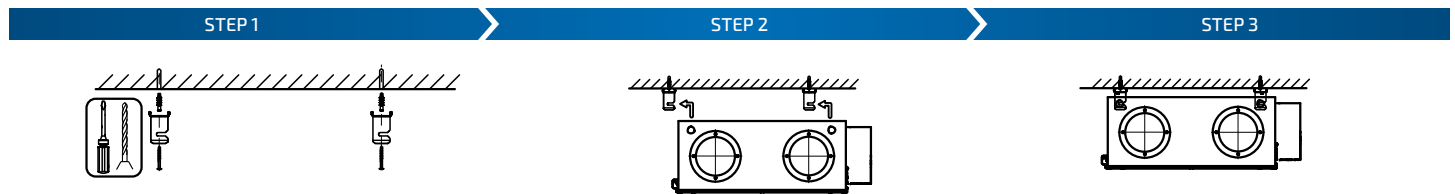
- The unit is equipped with supply and exhaust centrifugal fans with forward curved blades and build-in thermal overheating protection with automatic restart. The electric motors and impellers are dynamically balanced.

Warranty

- 5 year warranty

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.



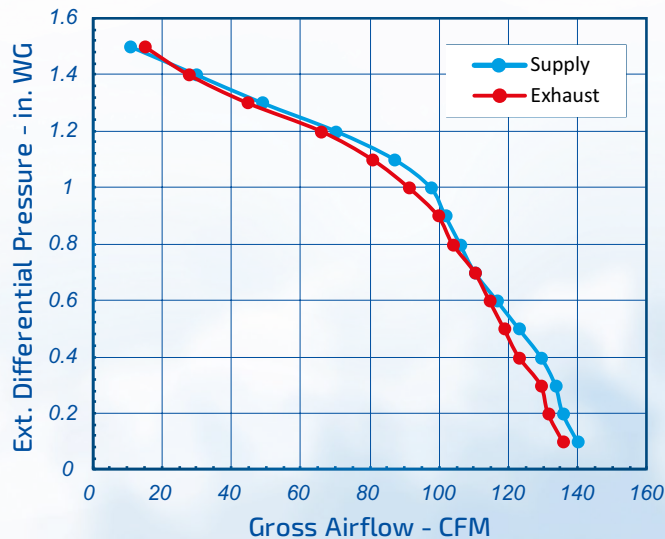
Accessories



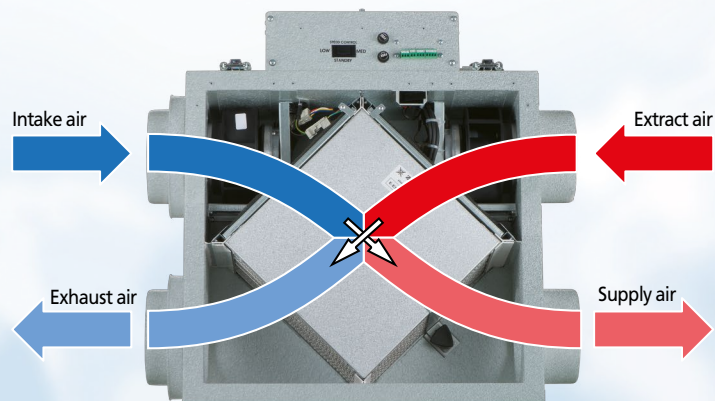
Performance ERV 120 (R)

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	63	134	66	140	64	136	156
50	0.2	61	130	64	136	62	131	155
75	0.3	60	128	63	133	61	129	153
100	0.4	59	124	61	129	58	123	152
125	0.5	56	118	58	123	56	119	151
150	0.6	53	112	55	117	54	114	149
175	0.7	50	106	52	110	52	110	147
200	0.8	48	102	50	106	49	104	146
225	0.9	46	98	48	102	47	100	145
250	1	44	94	46	97	43	91	143
275	1.1	39	83	41	87	38	81	140
300	1.2	32	67	33	70	31	66	135
325	1.3	22	47	23	49	21	44	130
350	1.4	13	28	14	30	13	28	127
375	1.5	7	14	5	11	7	15	126

		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	30	64	85	63	74	0.42
	II	0	32	45	95	114	60	70	0.36
	III	0	32	50	106	128	59	69	0.34
	IV								
	V	-25	-13	31	65	89	44	48	0.37
** Total Recovery Efficiency									
COOLING	VI	35	95	30	64	85	40 **	62	0.34



Model	Volts	Max. Watts	Max. Amps
ERV 120R	120V, 60Hz	156	1.3



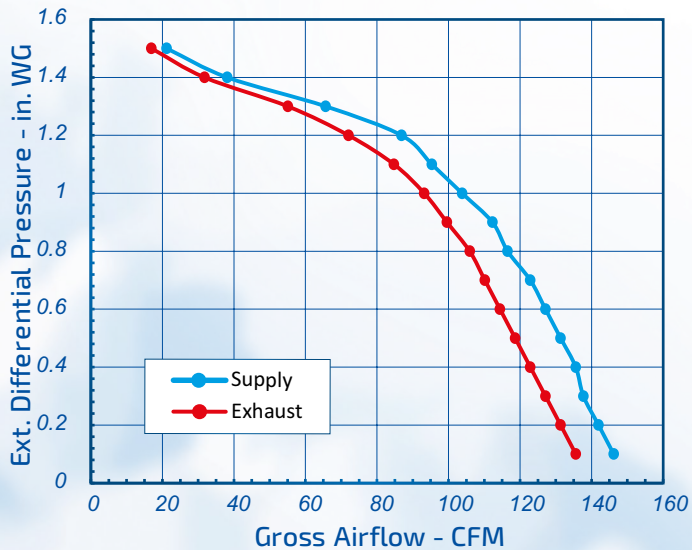
Frigate HRV 120R, ERV 120R



Performance HRV 120 (R)

External Static Pressure		Net Supply Air Flow		Gross Air Flow				Power
Pa	in. W.G.	L/s	cfm	Supply		Exhaust		Watts
				L/s	cfm	L/s	cfm	
25	0.1	67	142	69	146	64	136	158
50	0.2	65	138	67	142	62	131	157
75	0.3	63	134	65	138	60	127	156
100	0.4	62	132	64	136	58	123	155
125	0.5	60	127	62	131	56	119	153
150	0.6	58	123	60	127	54	114	152
175	0.7	56	119	58	123	52	110	151
200	0.8	53	113	55	117	50	106	149
225	0.9	51	109	53	112	47	100	148
250	1	48	101	49	104	44	93	146
275	1.1	44	92	45	95	40	85	143
300	1.2	40	84	41	87	34	72	141
325	1.3	30	64	31	66	26	55	135
350	1.4	17	37	18	38	15	32	130
375	1.5	10	21	10	21	8	17	128

		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	30	64	86	60	70	0.05
	II	0	32	45	95	114	57	67	0.04
	III	0	32	50	106	126	55	65	0.04
	IV								
	V	-25	-13	31	65	85	60	64	0.03
** Total Recovery Efficiency									
COOLING	VI	35	95	30	64	86	29 **	61	0.04



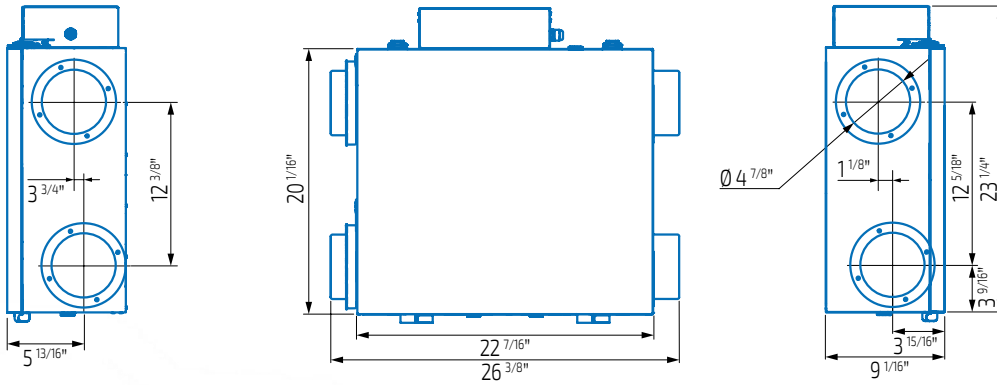
Model	Volts	Max. Watts	Max. Amps
HRV 120R	120V, 60Hz	156	1.3

Frigate HRV 120R, ERV 120R



Dimensions

FRIGATE HRV 120 | FRIGATE ERV 120



FRIGATE HRV 120 R | FRIGATE ERV 120 R

