

DESCRIPTION

VENTS' ERV 120 R EC 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.

Five year warranty.

CASING

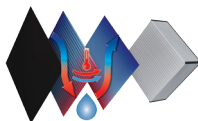
- Steel casing is covered with high-quality multilayer aluminium and zinc alloy to prevent corrosion.
- The casing is equipped with a switch to turn the ventilator off when the service panel is opened.

AIR FILTRATION

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

ENERGY RECOVERY CORE

Enthalpic core provides both heat&humidity recovery. For enthalpic core no drain required.



FANS

High efficient electronically commutated motors with external motor and impeller with forward curved blades. EC motors are featured with high performance and total speed controllable range. The electric motors and impellers are dynamically balanced.

DEFROST SYSTEM

Recirculation or only exhaust defrost modes are available.

CONSTANT FLOW

Recirculation or only exhaust defrost modes are available. Frigate ERV 120 R EC CF has an automatic constant air flow control function to keep the air flow in supply and exhaust air ducts constant even in case of variable air resistance.

This function is provided with the integrated air flow control units. The electronic sensors convert the actual air flow to the analogue signal



that is proportional to the air flow in the air duct. These signals are transmitted to the controller that controls the rotation speed of a respective fan in such a way that the actual rotations speed is equal to the set value.

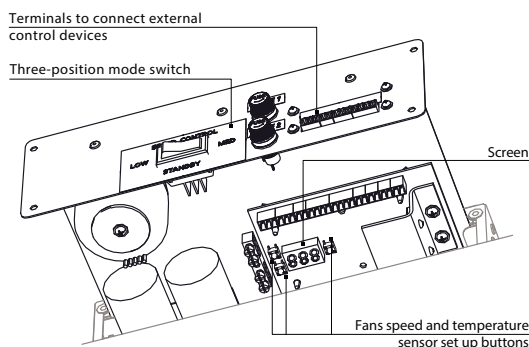
MANUAL BALANCING

Manual balancing is a standard balancing system. Fan speed manually adjusted by operating on units controller (Built-in control panel with independent fan speed adjustment 0%-100%).

CONTROL BOARD

The unit incorporates an integrated 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).

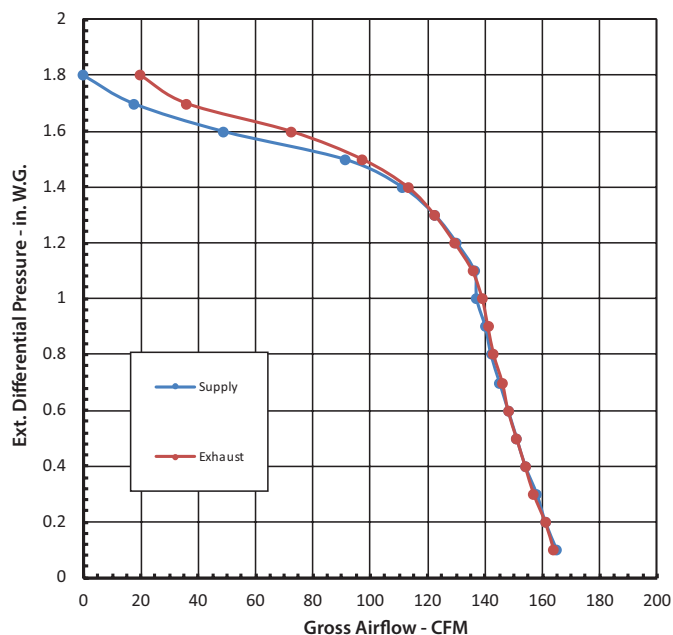


SUITABLE FOR:

Bathroom / kitchen / apartments / cottages / small offices.

PERFORMANCE

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	71	151	73	154	69	147	128
50	0.2	68	144	69	147	66	140	124
75	0.3	66	139	67	142	63	134	119
100	0.4	63	135	65	137	61	128	115
125	0.5	61	130	63	133	58	123	111
150	0.6	59	125	60	128	55	117	107
175	0.7	56	119	58	122	52	111	101
200	0.8	53	112	54	114	49	103	96
225	0.9	48	101	49	103	44	94	89
250	1	41	88	42	89	39	83	78
275	1.1	62	132	64	136	64	136	175
300	1.2	59	126	61	130	61	129	175
325	1.3	56	119	58	122	58	122	171
350	1.4	52	110	53	111	53	113	166
375	1.5	45	95	43	91	46	97	157
400	1.6	34	71	23	49	34	72	141
425	1.7	17	35	8	17	17	36	128
450	1.8	9	20	0	0	9	20	124


SOUND

1.5 Sones (30 L/s @ 0.2 in. W.G.)

		Supply Temperature		Net Airflow		Average Power	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Net Moisture Transfer
		°C	°F	L/s	cfm	(Watts)	SRE (%)	ASEF (%)	
HEATING	I	0	32	24	51	18	71	78	0.55
	II	0	32	30	64	24	70	76	0.50
	III	0	32	47	100	50	65	71	0.41
	IV								
	V	-25	-13	25	53	24	52	76	0.36
COOLING	I	35	95	24	51	20	62	73	0.40
	II	35	95	30	64	26	61	71	0.41

** Indicates total recovery efficiency, not sensible recovery efficiency

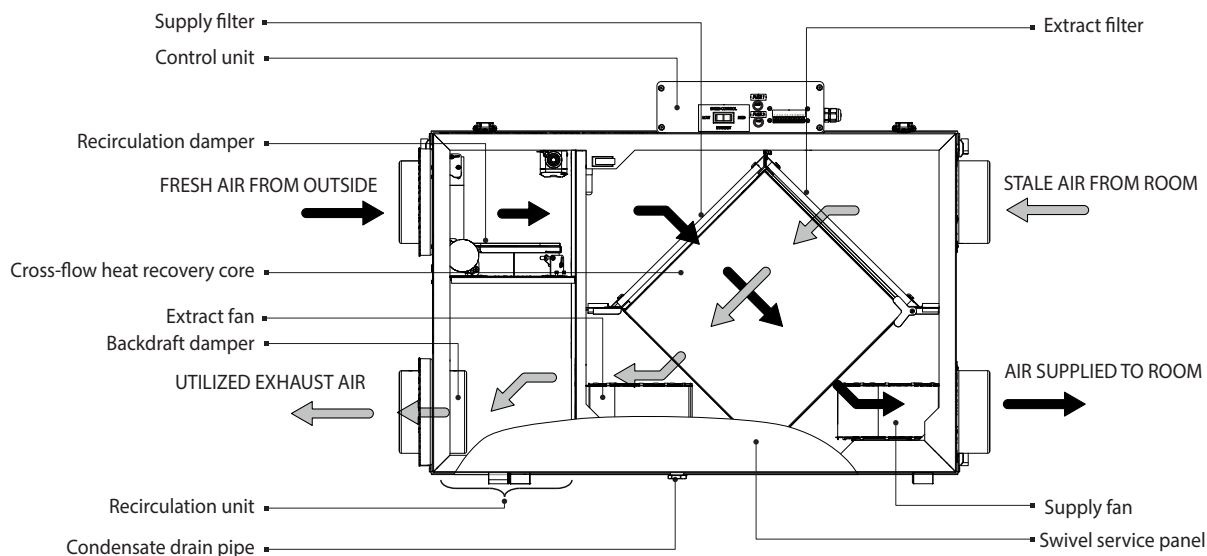
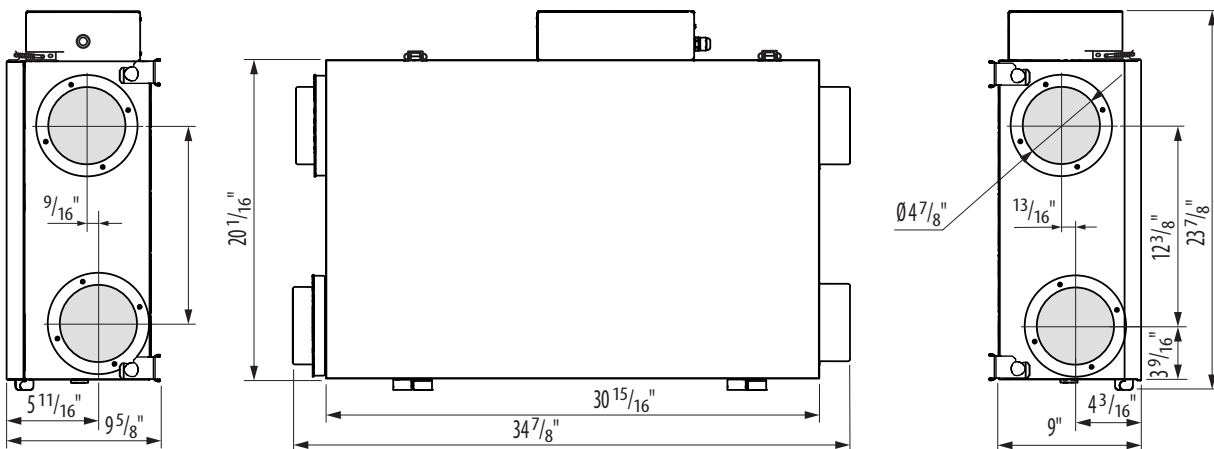
MODEL	QUANTITY	COMMENTS	PROJECT
			location:
			architect:
			engineer:
			contractor:
			submitted by:

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2021-10

DIMENSIONS



MODEL	QUANTITY	COMMENTS	PROJECT
			location:
			architect:
			engineer:
			contractor:
			submitted by: