

DESCRIPTION

VENTS' ERV 120 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

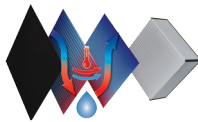
- Steel casing is covered with high-quality multilayer aluminium and zinc alloy to prevent corrosion.
- The casing is equipped with a switch to turn the ventilator off when the service panel is opened.

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

To protect the Energy Recovery Core, an antifreeze electronic protection system is applied. It switches the supply fan off according to the temperature sensor settings. Warm extract air defrosts the ERV core then the supply fan switches on and the ventilator continues operating under rated conditions.

CONSTANT FLOW

Recirculation or only exhaust defrost modes are available. Frigate ERV 120 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%).

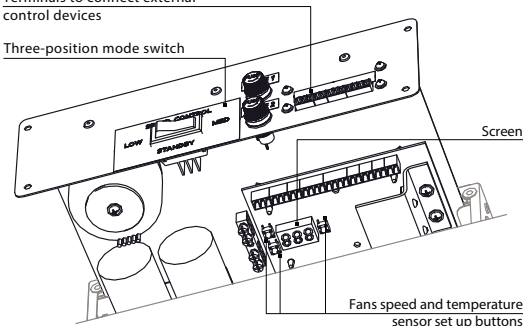
CONTROL BOARD

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).

Terminals to connect external control devices

Three-position mode switch

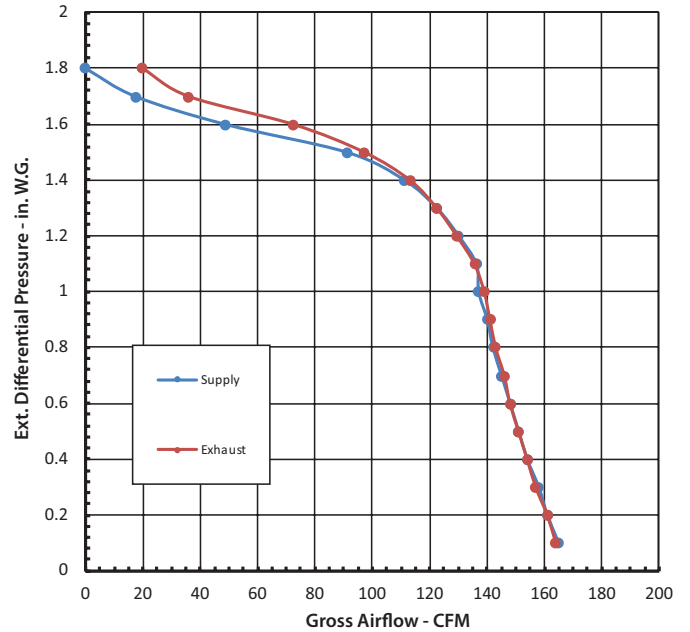


SUITABLE FOR:

Bathroom / kitchen / apartments / cottages / small offices.

PERFORMANCE

EXTERNAL STATIC PRESSURE		NET SUPPLY AIR FLOW		GROSS AIR FLOW				POWER Watts
Pa	in. W.G.	L/s	CFM	SUPPLY		EXHAUST		
Pa	in. W.G.	L/s	CFM	L/s	CFM	L/s	CFM	Watts
25	0,1	76	161	78	165	78	164	174
50	0,2	74	157	76	161	76	161	174
75	0,3	73	154	74	158	74	157	175
100	0,4	71	150	73	154	73	154	175
125	0,5	69	147	71	151	71	151	175
150	0,6	68	144	70	148	70	148	175
175	0,7	67	141	68	145	69	146	175
200	0,8	65	139	67	142	68	143	175
225	0,9	64	136	66	140	67	141	175
250	1	63	134	65	137	65	139	175
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.)

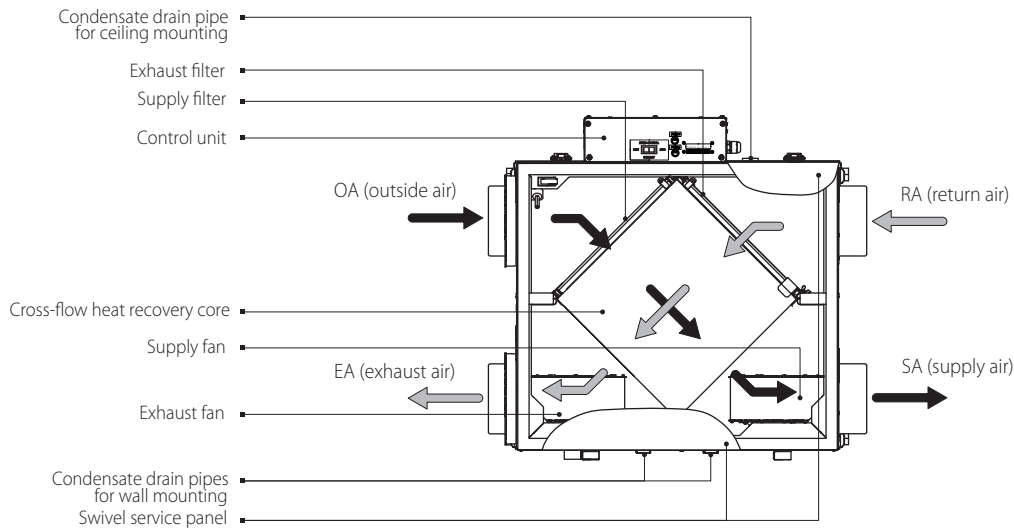
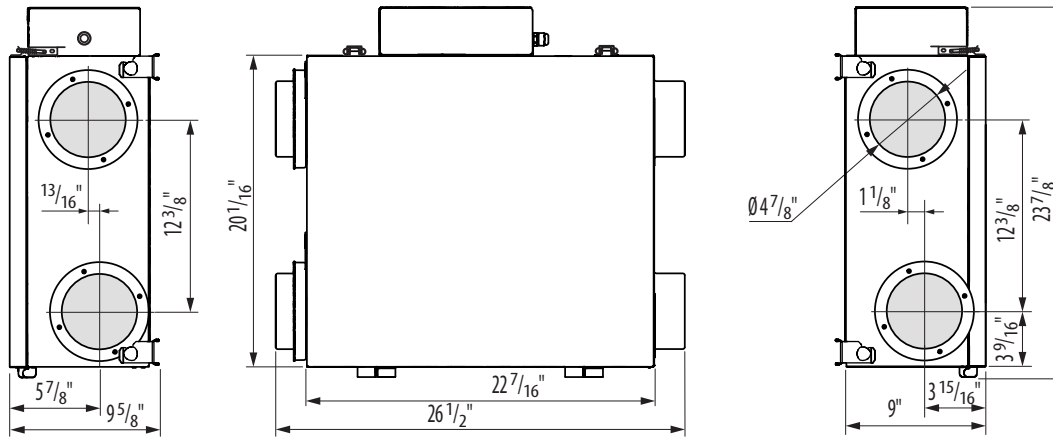
		Supply Temperature		Net Airflow		Average Power	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Net Moisture Transfer
		°C	°F	L/s	cfm	(Watts)	SRE (%)	ASEF (%)	
HEATING	I	0	32	24	50	18	71	78	0.17
	II	0	32	30	64	24	68	76	0.17
	III	0	32	47	100	56	62	68	0.14
	IV								
	V	-25	-13						
COOLING	VI	35	95	24	50	18	67	77	0.24

** 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: