

ERV D 120

Energy Recovery Ventilator

ERV D 120 is a 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 aluminum 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.

Fans

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

Energy Recovery Core

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



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.

Suitable for

- Bathroom / kitchen / apartments / cottages / small offices.

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

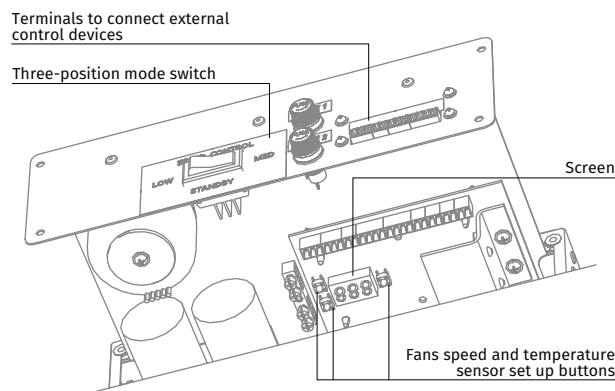
Constant Flow

- ERV D 120 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

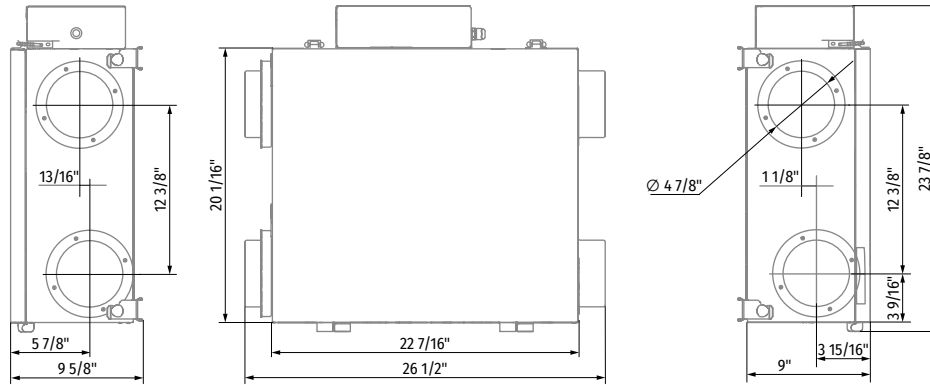
- Manual balancing is a standard balancing system. Fan speed manually adjusted by operating on units controller (built-in control board with independent fan speed adjustment 0 % – 100 %).

Control Board



- The unit incorporates an integrated control system with following functions:
 - Operation mode switch.
 - Air flow 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).

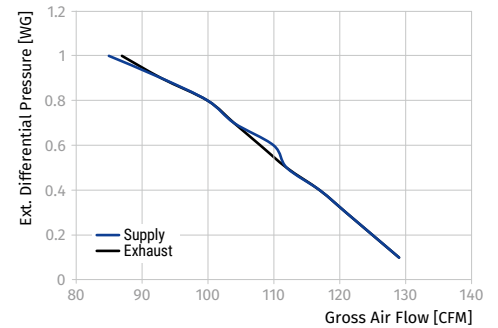
Dimensions



Technical Data

External Static Pressure		Net Supply Air Flow		Gross Air Flow				Power
Pa	in WG	l/s	CFM	Supply		Exhaust		Watts
				l/s	CFM	l/s	CFM	
25	0.1	60	127	61	129	61	129	139
50	0.2	58	123	59	125	59	125	135
75	0.3	56	119	57	121	57	121	135
100	0.4	54	114	55	117	55	117	132
125	0.5	52	110	53	112	53	112	129
150	0.6	50	106	52	110	51	108	128
175	0.7	48	102	49	104	49	104	124
200	0.8	46	97	47	100	47	100	121
225	0.9	43	91	44	93	44	93	118
250	1	40	85	40	85	41	87	114

Note: fan curve performed on high speed



Energy Performance

Temp Mode	Supply Temp [°C]	Supply Temp [°F]	Net Air Flow [l/s]	Net Air Flow [CFM]	Watts	SRE	ASRE	Latent Recovery / Moisture Transfer	TRE	ATRE	VLTVR Supply	VLTVR Exhaust	Very Low Temp Air Flow Imbalance
Heating	0	32	24	51	64	67	75	0.64					
Cooling	35	95	24	51	64			0.50	48	53			

Model	Volts	Max. Watts	Max. Amps
ERV D 120	120 V, 60 Hz	139	1.3

