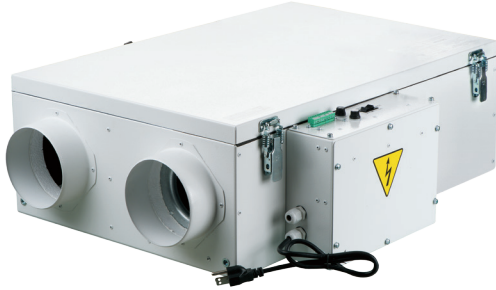


## DESCRIPTION



## ERV EC DR 80 ENERGY RECOVERY VENTILATOR

ERV EC DR 80 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.

## FILTER

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

## FANS

High efficient electronically commutated motors with external motor and impeller with backward curved blades. EC motors are featured with high performance and total speed controllable range. 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

Recirculation or only exhaust defrost modes are available.

## SUITABLE FOR:

Bathroom / kitchen / apartments / cottages / small offices.

## CONSTANT FLOW

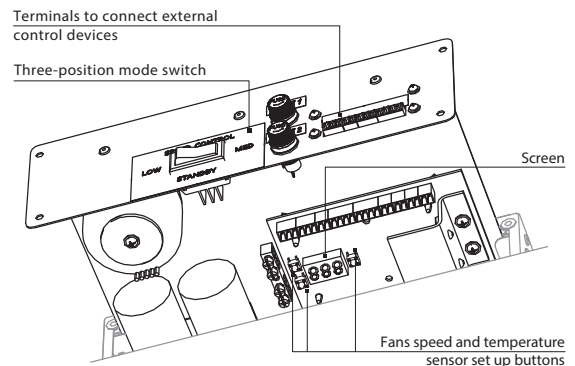
ERV EC DR 80 CF has an automatic constant air flow control function to keep the air flow in supply and exhaust air ducts constant even in case of variable air resistance.

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

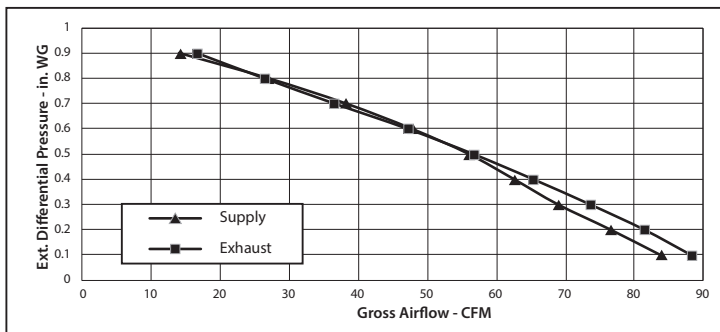


The unit incorporates an integrated control system with following functions:

- Operation mode switch.
- 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).

## 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	38	81	40	84	42	88	61
50	0.2	35	74	36	76	38	81	61
75	0.3	32	67	33	69	35	74	61
100	0.4	29	61	30	63	31	65	60
125	0.5	26	54	26	56	27	57	61
150	0.6	22	46	23	48	22	47	60
175	0.7	17	37	18	38	17	36	58
200	0.8	12	26	13	27	12	26	59
225	0.9	8	16	7	14	8	17	55

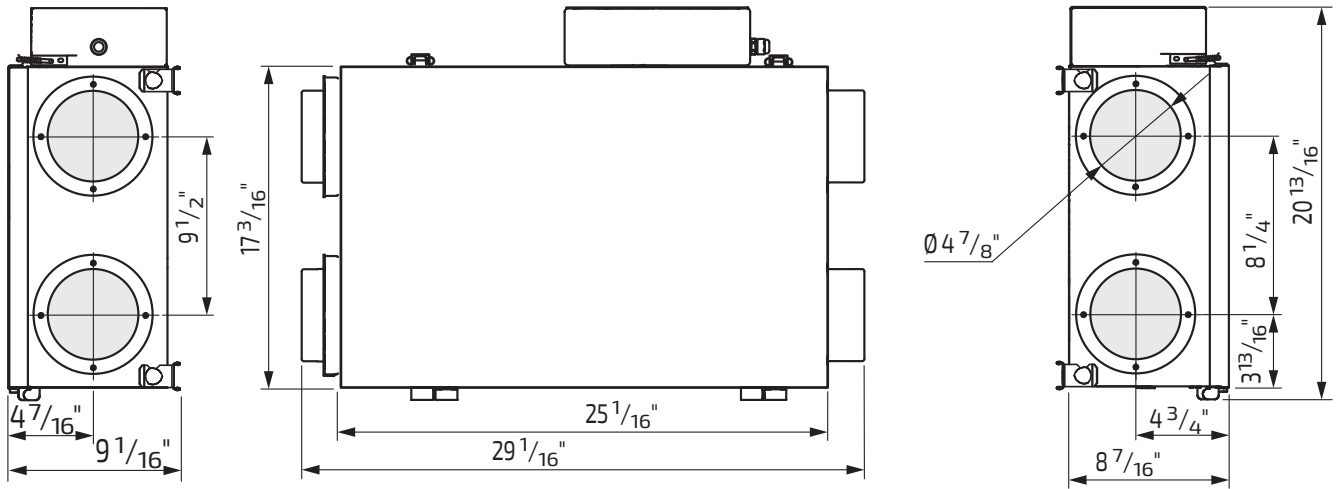


SOUND
1.4 Sones (30 L/s @ 50 Pa)

MODE	SUPPLY TEMPERATURE		NET AIR FLOW		AVERAGE POWER	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	NET MOISTURE TRANSFER
	°C	°F	L/s	CFM	(Watts)	SRE (%)	ASEF (%)	
HEATING	0	32	20	42	25	73	82	0.46
	0	32	25	53	38	69	79	0.47
	0	32	30	63	49	68	78	0.45
COOLING	35	95	20	42	25	54.5	72	0.49

Model	Volts	Max. Watts	Max. Amps
ERV EC DR 80	120 V, 60 Hz	61	0.9

DIMENSIONS



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

