



# AZ-ERV120R

## ENERGY RECOVERY VENTILATION

### DESCRIPTION

AZ-ERV120R 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

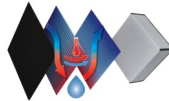
- Steel casing is covered with high-quality multilayer aluminum and zinc alloy to prevent corrosion.
- The casing is equipped with a switch to turn the ventilator off when the service panel is opened.

### 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

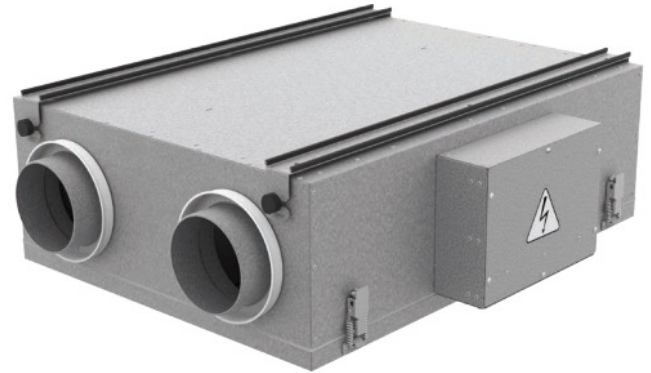
The unit is equipped with supply and exhaust centrifugal fans with forward curved blades and build-in thermal overheating protection with automatic restart. The electric motors and impellers are dynamically balanced.

### DEFROST SYSTEM

Recirculation or only exhaust defrost modes are available.

### CONSTANT FLOW

AZ-ERV120R 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.



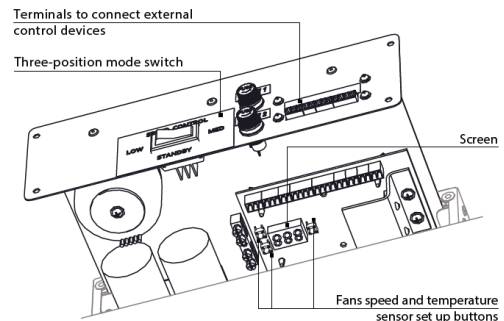
### MANUAL BALANCING

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.

Manufactured By: VENTS-US



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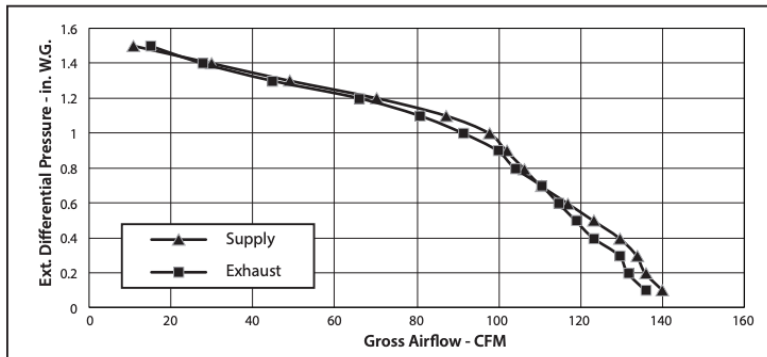


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ENERGY RECOVERY VENTILATION

## 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	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



MODEL	VOLTS	MAX WATTS	MAX AMPS
ERV 120R	120V, 60Hz	156	1.3
SOUND			
1.5 Sones (30 L/s @ 0.2 in W.G.)			

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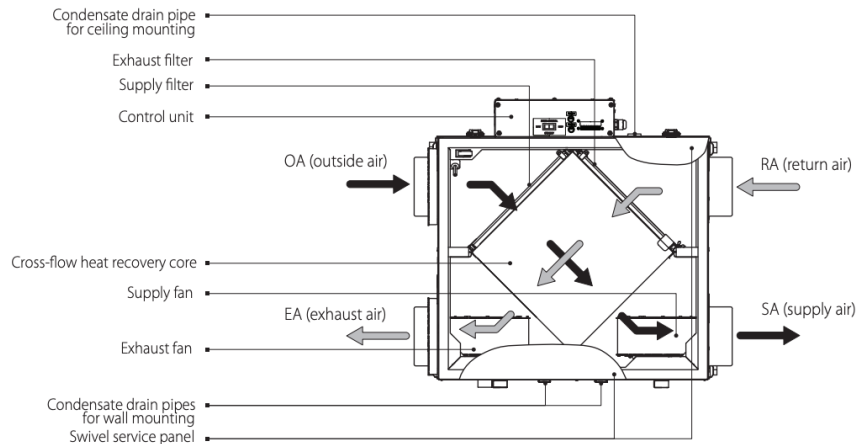
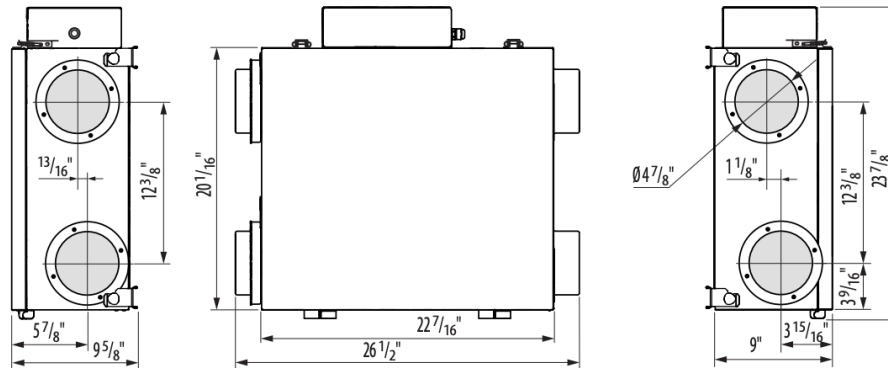
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### PERFORMANCE

MODE	SUPPLY TEMP		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	30	64	85	63	74	0.42
	0	32	45	95	114	60	70	0.36
	0	32	50	106	128	59	69	0.34
						** Total Recovery Efficiency		
COOLING	35	95	30	64	85	40**	62	0.34

\*\* Indicates total recovery efficiency, not sensible recovery efficiency

### DIMENSIONS



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