



# AZ-ERV150R

## ENERGY RECOVERY VENTILATION

### DESCRIPTION

AZ-ERV150R 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

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

AZ-ERV150R 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%).



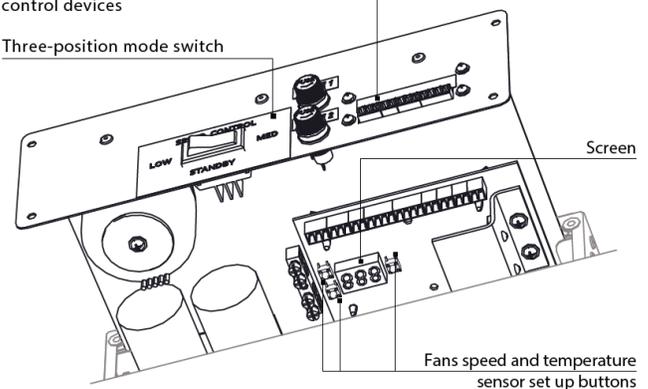
### CONTROL BOARD

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.

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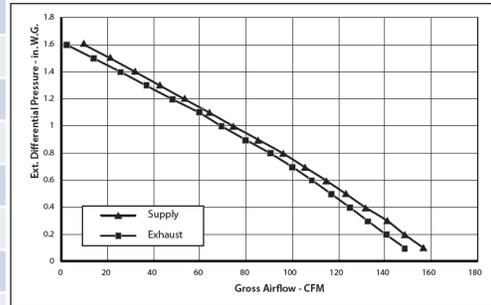
### PERFORMANCE

EXTERNAL STATIC PRESSURE		NET SUPPLY AIR FLOW		GROSS AIR FLOW				14POWER
Pa	In. W.G.	L/s	CFM	SUPPLY		EXHAUST		Watts
				L/s	CFM	L/s	CFM	
25	0.1	72	152	74	157	70	149	192
50	0.2	68	144	70	148	66	140	192
75	0.3	65	137	67	141	63	132	191
100	0.4	60	127	62	131	59	125	191
125	0.5	56	119	58	123	55	117	190
150	0.6	52	111	54	114	51	108	190
175	0.7	48	102	50	105	47	100	189
200	0.8	44	93	45	96	43	90	188
225	0.9	36	77	40	85	38	79	187
250	1	32	67	35	74	33	69	185
275	1.1	27	57	30	64	28	59	184
300	1.2	22	46	25	53	23	48	183
325	1.3	17	35	20	42	17	36	181
350	1.4	12	24	15	32	12	25	179
375	1.5	6	13	10	21	7	14	178
400	1.6	1	2	5	10	1	2	176

MODEL	VOLTS	MAX. WATTS	MAX. AMPS
ERV 150R	120V, 60Hz	192	1.6

**SOUND**

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



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	101	67	83	0.47
	0	32	45	94	127	64	78	0.38
	0	32	50	105	105	62	76	0.36
**TOTAL RECOVERY EFFICIENCY**								
COOLING	35	95	31	65	101	41.5**	68	0.42

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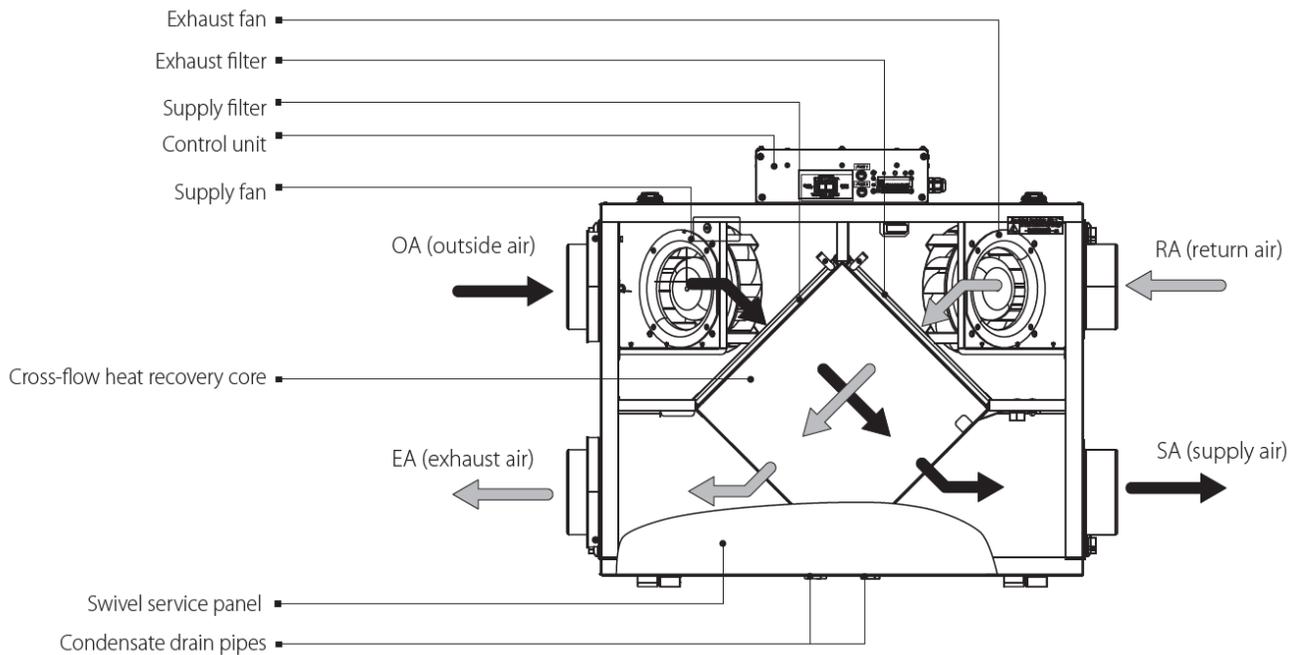
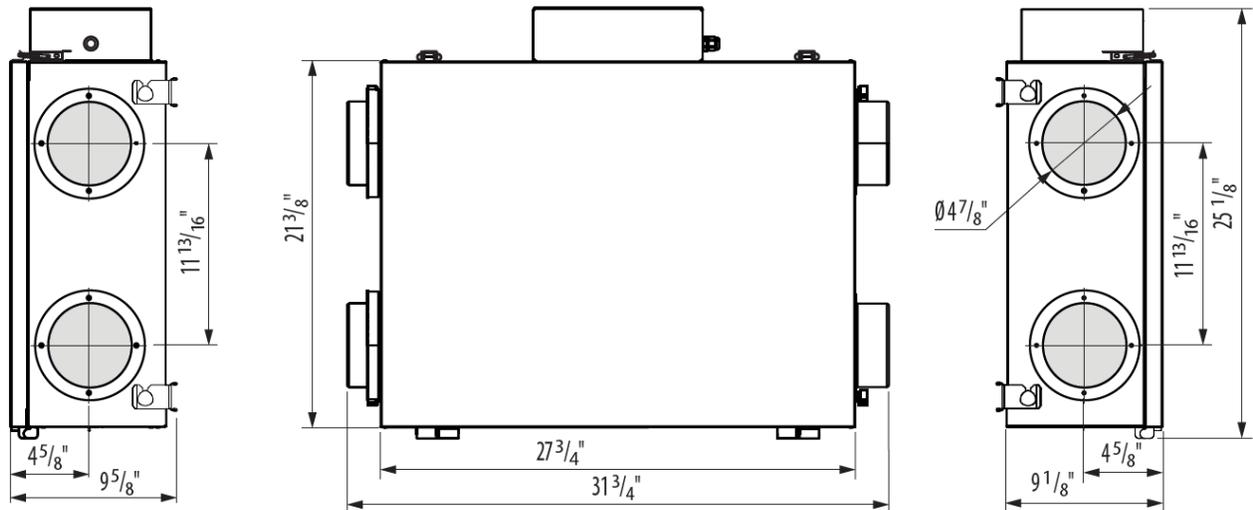




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## DIMENSIONS



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