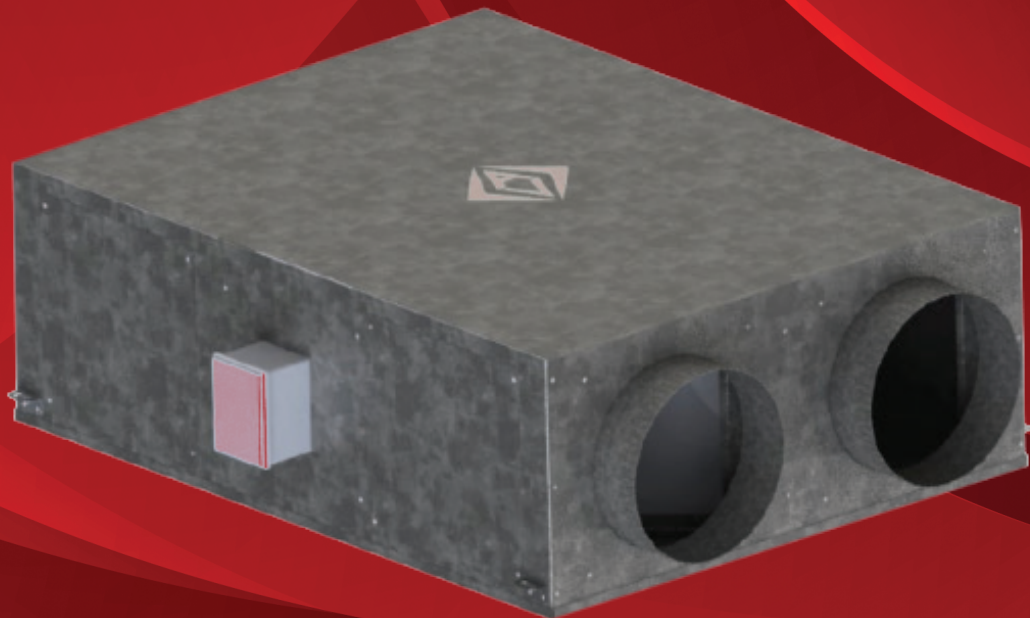




ALLVENT
Ventilation Products



Energy Recovery Range

In Ceiling HRV and ERV units

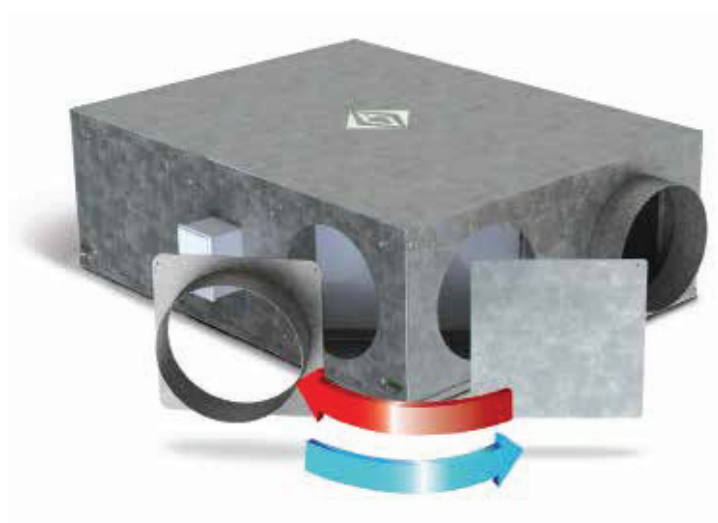
Energy Recovery Range

In Ceiling HRV and ERV units



Features

- High Efficient EC plug fans
- Galvanized sheetmetal construction
- G4 filters fitted, washable core (enthalpy only)
- Easily accessible filters
- 3-pin plug connection (single phase)
- Speed controlled by 0-10V DC control via BMS or by fan speed pots



A Heat Recovery Unit (HRU), also known as a Heat Recovery Ventilator (HRV) or Energy Recovery Ventilator (ERV), is a device that recovers and reuses heat energy from the exhaust air in a building. These units are used in HVAC systems to increase energy efficiency and improve indoor air quality.

The basic principle involves extracting heat from the outgoing air (which is being exhausted from the building) and transferring it to the incoming fresh air. This process helps preheat the incoming air during colder months and pre-cool it during warmer months, reducing the load on the heating or cooling system.

Using heat recovery units leads to energy savings, lower heating and cooling costs, and improved indoor air quality by providing a constant supply of fresh, filtered air. These systems are used in residential, commercial, and industrial buildings to meet ventilation requirements while minimizing energy wastage.

Build

The unit's casing is made of heavy-duty galvanized steel, with thermal insulation for higher efficiency. Interchangeable panels provide flexibility for the inlet and outlet directions. High-efficient EC plug fans are used for both supply and exhaust for higher flow rate, control flexibility, and maximum efficiency. The unit integrates G4 filters. Heat exchanger media options include both sensible only and enthalpy.

Energy Recovery Range

In Ceiling HRV and ERV units



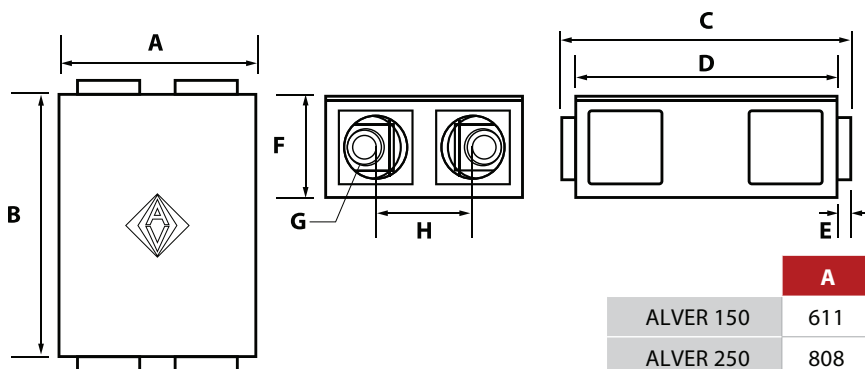
Technical Data

Model	Code	Hz	V	Nominal kW		Max Current A	Nominal Airflow l/s	Phase	Filter		Heat Exchanger		Dimensions L x W x H	Weight kg
				Supply	Exhaust				Grade	Qty	Type	Options		
ALVER 150	80100	50	230	0.17	0.17	3.8	150	1	G4	2	Cross Flow	Enthalpy or Sensible	820 x 610 x 294	60
ALVER 250	80101	50	230	0.37	0.37	6.0	250	1					1082 x 808 x 422	108
ALVER 350	80102	50	230	0.37	0.37	6.6	350	1					1224 x 950 x 422	115
ALVER 450	80103	50	230	0.75	0.75	11.2	450	1					1283 x 1100 x 422	138
ALVER 650	80104	50	230	0.75	0.75	11.2	650	1					1478 x 1212 x 478	170
ALVER 950	80105	50	400	1.7	1.7	4.6	950	3					1598 x 1286 x 648	190
ALVER 1250	80106	50	400	2.5	2.5	8.2	1250	3					1592 x 1278 x 848	220

Sound Spectrum Data

Model	Mode	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
ALVER 150	In (A)	65	58	64	74	66	59	49	58
	Out (A)	66	59	66	75	67	60	50	59
ALVER 250	In (A)	66	67	68	66	63	64	57	53
	Out (A)	76	71	71	71	69	69	62	57
ALVER 350	In (A)	62	68	68	66	63	67	57	54
	Out (A)	80	70	69	69	69	69	62	57
ALVER 450	In (A)	61	68	67	67	65	67	59	58
	Out (A)	79	70	68	71	71	70	64	61
ALVER 650	In (A)	61	68	67	67	65	67	59	58
	Out (A)	79	70	68	71	71	70	84	61
ALVER 950	In (A)	66	71	70	72	70	71	65	64
	Out (A)	50	59	66	73	76	77	75	70
ALVER 1250	In (A)	66	71	70	72	70	71	65	64
	Out (A)	50	59	66	73	76	77	75	70

Dimensions



	A	B	C	D	E	F	G	H
ALVER 150	611	820	1004	820	58	294	Ø200	302
ALVER 250	808	1082	1266	1082	58	422	Ø250	400
ALVER 350	950	1224	1409	1224	58	422	Ø300	471
ALVER 450	1100	1283	1466	1283	58	422	Ø350	541
ALVER 650	1212	1478	1667	1478	94.5	478	400x400	-
ALVER 950	1286	1598	1787	1598	94.5	648	450x450	-
ALVER 1250	1278	1592	1787	1592	97.5	848	610x510	-



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