

HRV EC D 150

Heat Recovery Ventilator

HRV EC D 150 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.
- o Optional supply: anti grease aluminum filter.

Fans

 High efficient electronically commutated motors with external motor and impeller with forward curved blades. EC motors are featured with high performance and total speed controllable range. The electric motors and impellers are dynamically balanced.

Heat Recovery Core

• Polystyrene core ensures efficient heat recovery.



Defrost System

 To protect the Heat 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 HRV core then the supply fan switches on and the ventilator continues operating under rated conditions.

Suitable for

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

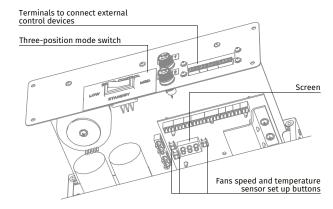
Constant Flow

- HRV EC D 150 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

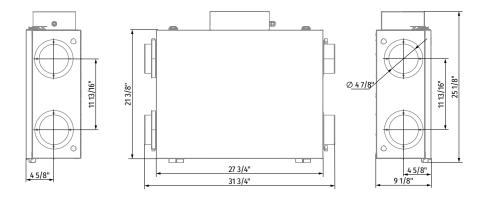


- The unit incorporates an integrated control system with following functions:
 - Operation mode switch.
 - Air flow balancing enabled by supply and exhaust fan independent speed adjustment from 0 to 100 % (percentage is displayed on built-in screen).
 - · Automatic recovery core frost protection.
 - External control device connection (up to 5 at the same time).

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

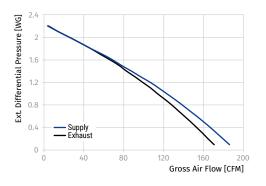


Dimensions



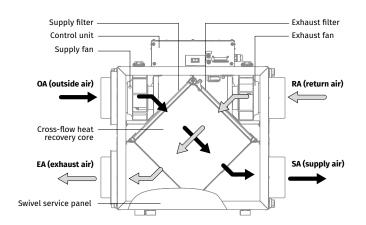
Technical Data

	al Static ssure		upply Flow	Cur	Gross Air Flow Supply Exhaust			Power
Pa	in WG	l/s	CFM	l/s	CFM	l/s	CFM	Watts
25	0.1	85	181	88	186	81	171	186
50	0.2	82	175	85	180	78	165	186
75	0.3	80	169	82	174	75	159	186
100	0.4	77	162	79	167	72	153	185
125	0.5	74	156	76	161	70	147	185
150	0.6	70	149	73	154	67	141	184
175	0.7	67	142	69	146	64	135	184
200	0.8	64	135	66	139	61	128	184
225	0.9	55	117	62	131	57	121	183
250	1	52	110	58	123	54	114	182
275	1.1	49	104	54	115	51	107	181
300	1.2	45	96	50	107	47	99	181
325	1.3	42	88	46	97	43	91	180



	al Static ssure		upply Flow	Gross Air Flow Supply Exhaust		aust	Power	
Pa	in WG	l/s	CFM	l/s	CFM	l/s	CFM	Watts
350	1.4	38	80	41	88	39	83	178
375	1.5	34	73	37	78	36	75	176
400	1.6	30	64	32	69	31	66	174
425	1.7	26	54	28	58	27	56	172
450	1.8	21	45	22	47	22	47	169
475	1.9	16	35	17	36	17	36	166
500	2	12	24	12	25	12	25	163
525	2.1	6	14	7	14	7	14	159
550	2.2	2	4	2	3	2	4	156

Note: fan curve performed on high speed



Energy Performance

		Supply Ter °C	nperature °F	Net Ai l/s	r Flow CFM	Average Power [Watts]	Sensible Recovery Efficiency	Apparent Sensible Effectiveness	Net Moisture Transfer
	I	0	32	31	66	26	69	78	0.04
	II	0	32	46	97	42	67	74	0.05
Heating	III	0	32	50	107	52	65	73	0.05
	IV								
	٧	-25	-13						
				**T	otal Recovery Efficie	ency			
Cooling	VI	35	95	31	66	25.8	40.2**	64	0.04

Model	Volts	Max. Watts	Max. Amps
HRV EC D 150	120 V, 60 Hz	186	2.5

** Indicates total recovery efficiency, not sensible recovery efficiency 250 Pa = 1 in of water: 0.472 l/s = 1 CFM