



BROAN ERV180

Part no. ERV180S

80 to 186 CFM (0.4 in. w.g.)



VB0267

ERV180: PERFECT FOR NEW RESIDENTIAL CONSTRUCTIONS

Contractors and builders need cost-effective, reliable and code-compliant mechanical ventilation systems for new home construction. The Broan ERV180 offers superior value at an entry-level price. The ERV180 represents over 15 years of continuous improvement to deliver contractors the durability and reliability they have come to expect from Broan.

Key features:

- Removable crossflow polymerized paper ERV core
- Maintenance free, totally enclosed, sealed bearings motor
- Pressure taps, balancing dampers and straps for insulated ducts for quick, effective installation
- Can be installed upside down
- Compatible with the VT7W digital wall control

REPAIRS AND MAINTENANCE

Broan ERV180 modular design makes it possible to remove all mechanical parts in less than 5 minutes. The low power consumption motor is permanently lubricated. Finally, the electronic circuit board eliminates electromechanical parts, reducing repair time to a minimum.

WARRANTY

The ERV180 is protected by a 5-year warranty on parts, including the energy recovery core, with the original proof of purchase.

Available at:



ENERGY RECOVERY VENTILATOR

Controls

- This unit is very simple to operate: press on its push button, located on the electrical compartment, to activate it. Press once for low speed, once again for high speed, and once more to stop it.
- For more convenience, this unit can also be controlled by an optional main control. For a complete list of optional main and auxiliary controls available, refer to the **Wall Control Compatibility Chart** on last pages of wall controls specification sheet, available at www.broan.com.
- For more details about controls, refer to the **Main and auxiliary wall controls** user guide, also available at www.broan.com.

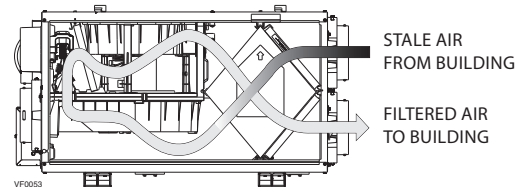
Options

- Complete line of registers and diffusers

Defrosting System

The ERV180 uses an efficient defrosting method. No negative pressure is created by air exhausted to the outside, as the air is recirculated into the house, helping to prevent any backdraft.

OUTDOOR TEMPERATURE		DEFROST CYCLE (IN MINUTES)
°C	°F	DEFROST / OPERATION
WARMER THAN -5	WARMER THAN 23	NO DEFROST
-5 TO -15	23 TO 5	10 / 60
-15 TO -27	5 TO -17	10 / 30
-27 AND LESS	-17 AND LESS	10 / 20



Energy Recovery Core

Dimensions: 15.4" x 10.6" x 10.6" (39.1 cm x 26.9 cm x 26.9 cm)

Exchange surface: 107 ft.² (9.94 m²)

Weight: 14.2 lb. (6.44 kg)

Material: Polymerized paper

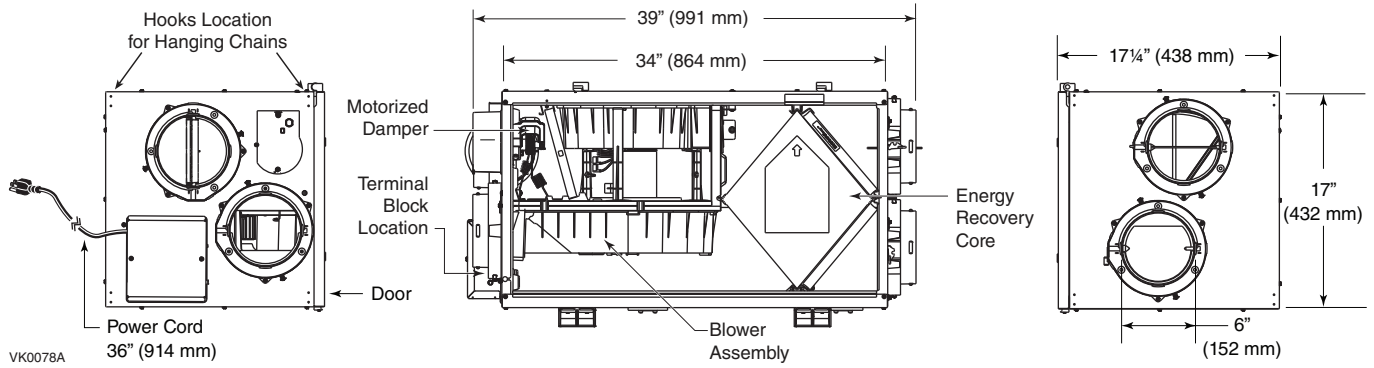
Type: Crossflow core

Warranty: 5 years

Requirements and Standards

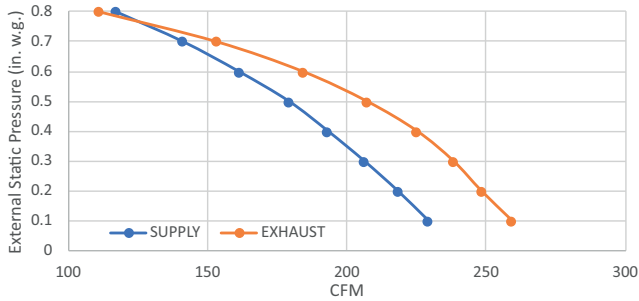
- Complies with the UL 1812 requirements regulating the installation of Energy Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Complies with CSA F326 requirements regulating the installation of Energy Recovery Ventilators
- HVI certified
- Technical data was obtained from published results of tests relating to CSA C439 Standards

DIMENSIONS: ERV180



VENTILATION PERFORMANCE

EXT. STATIC PRESSURE		NET SUPPLY AIR FLOW			GROSS AIR FLOW					
PA	IN. W.G.	L/S	CFM	M ³ /H	SUPPLY			EXHAUST		
					L/S	CFM	M ³ /H	L/S	CFM	M ³ /H
25	0.1	105	221	374	108	229	389	122	259	439
50	0.2	99	210	356	103	218	371	117	248	421
75	0.3	93	199	338	97	206	349	112	238	403
100	0.4	86	186	317	91	193	328	106	225	382
125	0.5	76	172	292	84	179	302	98	207	353
150	0.6	70	156	263	76	161	274	87	184	313
175	0.7	60	136	230	67	141	241	72	153	259
200	0.8	50	113	191	55	117	198	53	111	191



ENERGY PERFORMANCE

SUPPLY TEMPERATURE		NET AIR FLOW			POWER CONSUMED WATTS	SENSIBLE RECOVERY EFFICIENCY	ADJUSTED SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS*	LATENT/RECOVERY MOISTURE TRANSFER
°C	°F	L/s	CFM	M ³ /H					
HEATING									
0	32	38	80	137	80	48	56	73	0.51
0	32	53	112	191	139	45	55	70	0.46
0	32	77	163	277	167	50	59	70	0.42
-25	-13	33	69	119	105	36	42	74	0.51
COOLING						TOTAL RECOVERY EFFICIENCY	ADJUSTED TOTAL RECOVERY EFFICIENCY		
35	95	39	83	140	78		42	47	

*Data not certified by HVI.

NOTE: All specifications are subject to change without notice.

SPECIFICATIONS AND RATINGS

- Model: ERV180
- Part Number: ERV180S
- Total Assembled Weight: (Including polymerized paper core): 76 lb. (35 kg)
- 6" Round Ports
- Filters: 15 ppi washable reticulated foam 15.375" x 7.125" x 0.75" (39 cm x 18 cm x 1.9 cm)
- Housing: Pre-painted steel
- Insulation: Expanded polystyrene
- Mounting: Suspension by chains and springs
- Supply and exhaust blower motor: 1 PSC motor
 - Protection Type: Thermally protected
 - Insulation Class: B
- Speed Control on unit: Low and High speeds. Other modes available with optional main wall controls.
- Energy Recovery Core:
 - Exchange Surface Area: 107 ft.² (9.94 m²)
 - Type: Crossflow
 - Material: Polymerized paper
- Unit Electrical Characteristics: 120 volts, 60 Hz, 2.1 amps, 200 watts

Project:	REMARKS
Location:	
Part Number: ERV180S	
Qty.:	
Submitted by: _____ Date: _____	



Broan-NuTone LLC, 926 West State Street, Hartford, WI 53027 (1-877-862-7626)



www.broan.com

ERV180d21_02