



### BROAN ERV180

Part no. ERV180S

80 to 183 CFM (0.4 in. w.g.)



VB0234

### 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](http://www.broan.com).
- For more details about controls, refer to the **Main and auxiliary wall controls** user guide, also available at [www.broan.com](http://www.broan.com).

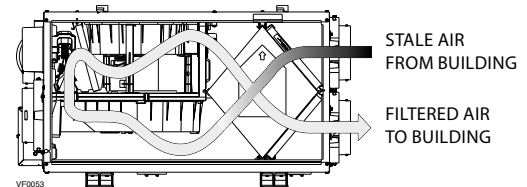
### Options

- 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.<sup>2</sup> (9.94 m<sup>2</sup>)

Weight: 14.2 lb. (6.44 kg)

Material: Polymerized paper

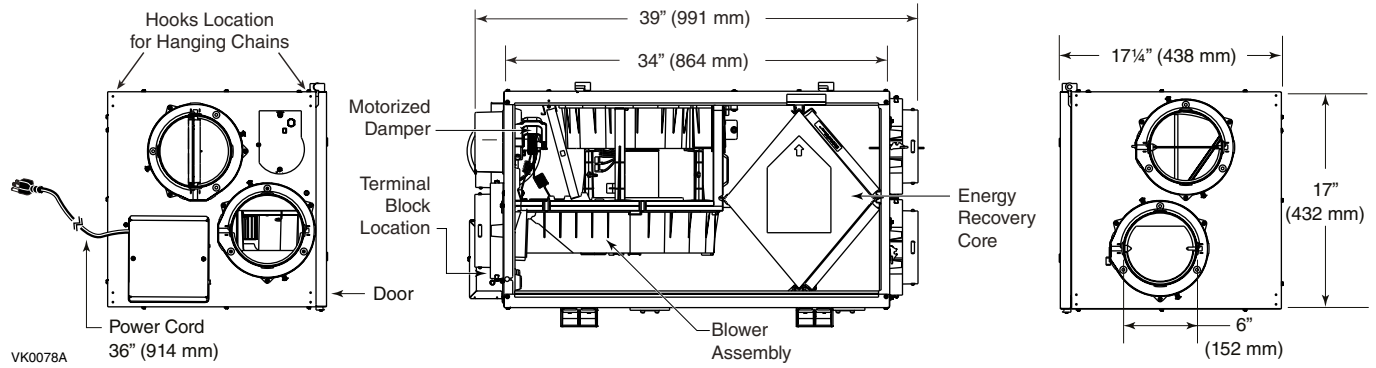
Type: Crossflow core

Warranty: 5 years

### Requirements and Standards

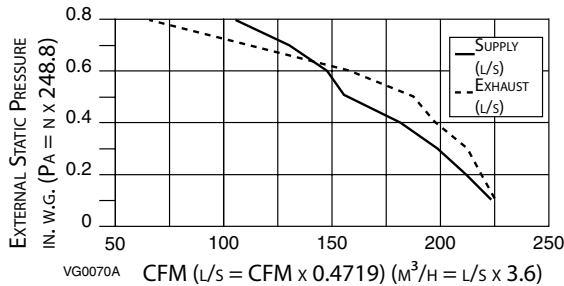
- Complies with the UL 1812 requirements regulating the installation of Energy Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Complies with CSA F326 requirements regulating the installation of Energy Recovery Ventilators
- HVI certified
- Technical data 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								
		SUPPLY			EXHAUST					
PA	IN. W.G.	L/S	CFM	M <sup>3</sup> /H	L/S	CFM	M <sup>3</sup> /H	L/S	CFM	M <sup>3</sup> /H
25	0.1	105	222	377	106	225	382	106	225	383
50	0.2	99	209	355	100	212	360	104	220	374
75	0.3	93	198	336	94	200	340	100	212	360
100	0.4	86	183	311	88	186	316	93	198	337
125	0.5	76	162	275	78	165	280	87	185	315
150	0.6	70	148	251	71	150	255	75	158	269
175	0.7	60	128	217	61	130	221	56	119	202
200	0.8	50	107	182	51	108	183	29	61	104



## ENERGY PERFORMANCE

SUPPLY TEMPERATURE		NET AIR FLOW			POWER CONSUMED WATTS	SENSIBLE RECOVERY EFFICIENCY	APPARENT SENSIBLE EFFECTIVENESS	LATENT/RECOVERY MOISTURE TRANSFER
°C	°F	L/S	CFM	M <sup>3</sup> /H				
HEATING								
0	32	39	80	137	84	60	72	60
0	32	-	-	-	-	-	-	-
0	32	54	114	194	113	58	69	53
0	32	79	167	284	169	56	66	45
-25	-13	31	65	110	116	41	86	47
COOLING								
35	95	39	82	139	81	TOTAL RECOVERY EFFICIENCY		
							52	

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.<sup>2</sup> (9.94 m<sup>2</sup>)
  - 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:



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