BROAN

BROAN ERV70
Part no. ERV70T (*TOP PORTS*)
Part no. ERV70S (*SIDE PORTS*)
35 to 70 CFM (0.4 in. w.g.)

VB0242

THE ERV70: ENERGY RECOVERY IN A SMALL PACKAGE!

The ERV70 is the ideal choice for condominiums, apartments and other limited space applications that require up to 70 cfm of continuous ventilation. With its compact size and 4-inch vertical or horizontal ports, it can be installed in small spaces such as a closet or mechanical room above a hot water tank.

The ERV70 has just one blower (patent pending) and is therefore quieter than any other similar ERV on the market. ERV technology is a great choice for summer ventilation with air conditioning in humid climates, and for dry homes in colder climates. Read more about ERV and HRV technology at www.broan.com.

- At just 34 lb. (15.2 kg), it can be installed without opening the unit
- Features pressure taps, balancing dampers, integrated hooks and port straps to simplify installation
- Removable terminal block for quicker wall control connections

REPAIRS AND MAINTENANCE

All parts of the ERV70 that could need maintenance can be removed in less than five minutes, allowing direct access for easy repairs. The PSC motor is permanently lubricated.

WARRANTY

The ERV70 is protected by a 5-year warranty on parts only. The energy recovery core is covered by a 5-year warranty, with the original proof of purchase.

Available at:

ENERGY RECOVERY VENTILATOR

Controls

- This unit is very simple to operate. Once it is installed, press on its push button, located on the unit top left side, to select high speed, low speed or to stop it (the blower is off but will turn on in response to a wall control signal). The LED (located under the push button) will then show on which mode the unit is in.

- 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
- Exclusive wall mounting bracket no. VACCWMK

Defrosting System

The ERV70 uses a unique recirculation defrost method, which maintains balanced air pressure in the home. If there is a call for ventilation from an auxiliary wall control during the defrost cycle, the defrost is put "on hold" while air is exchanged, ensuring that no humid air is recirculated.

OUTDOOR TEMPERATURE		DEFROST CYCLE MIN./ OPERATING MIN.
°C	°F	
WARMER THAN -5	WARMER THAN 23	NO DEFROST
-5 TO -27	23 TO -17	7/22
-27 AND LESS	-17 AND LESS	7/15

Energy Recovery Core

Dimensions: 10" x 10" x 5.5" (25.4 cm x 25.4 cm x 14 cm)
Exchange surface: 42.3 ft.² (3.9 m²)
Weight: 8 lb. (3.6 kg)
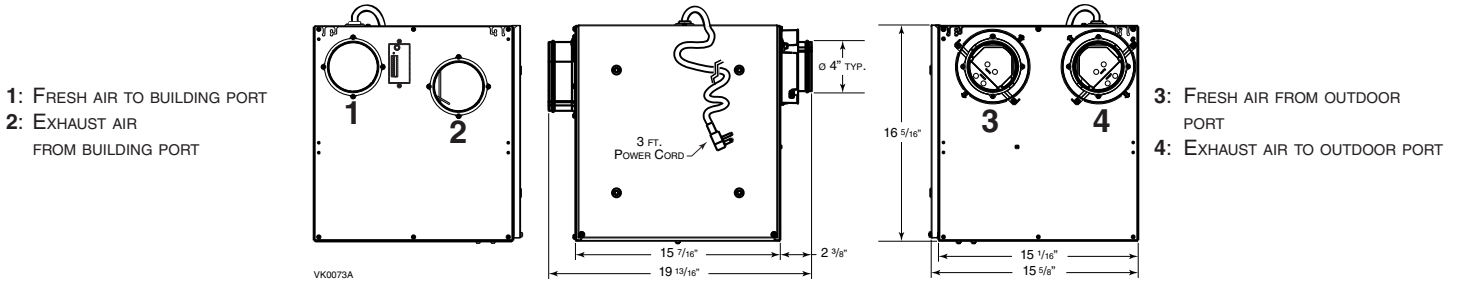Material: Polymerized paper
Type: Cross flow
Warranty: 5 years

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 C444 requirements regulating the installation of Energy Recovery Ventilators
- Technical data was obtained from published results of tests relating to CSA C439 Standards
- HVI certified

DIMENSIONS: ERV70S (SIDE PORTS)

VK0073A

1: FRESH AIR TO BUILDING PORT
2: EXHAUST AIR FROM BUILDING PORT

3 FT. POWER CORD

ø 4" TYP.

16 5/16"

15 7/16"
19 13/16"
2 3/8"

15 1/16"
15 5/8"

3: FRESH AIR FROM OUTDOOR PORT
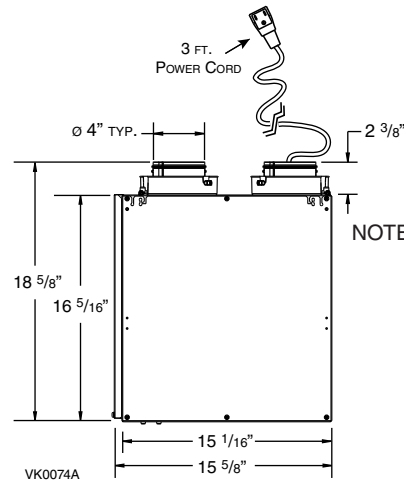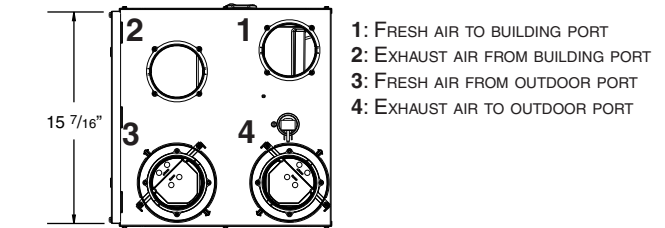**4**: EXHAUST AIR TO OUTDOOR PORT

NOTE: ALL UNITS PORTS WERE CREATED TO BE CONNECTED TO DUCTS HAVING A MINIMUM OF 4" DIAMETER, BUT IF NEED BE, THEY CAN BE CONNECTED TO BIGGER SIZED DUCTS BY USING AN APPROPRIATE TRANSITION (E.G.: 4" DIAMETER TO 5" DIAMETER TRANSITION).

VENTILATION PERFORMANCE

EXTERNAL STATIC PRESSURE		NET SUPPLY AIR FLOW			GROSS AIR FLOW					
					SUPPLY			EXHAUST		
PA	IN. W.G.	L/S	CFM	M³/H	L/S	CFM	M³/H	L/S	CFM	M³/H
25	0.1	39	82	139	39	85	143	39	83	141
50	0.2	37	78	133	38	81	136	37	79	134
75	0.3	35	75	127	36	78	131	35	75	127
100	0.4	33	70	119	34	73	122	34	71	121
125	0.5	32	67	114	33	71	117	32	67	114
150	0.6	29	62	105	30	66	109	29	61	104
175	0.7	28	59	100	28	61	102	27	57	97
200	0.8	26	55	93	26	57	95	24	52	88

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	M³/H				
HEATING								
0	32	17	35	60	34	66	77	0.59
0	32	30	64	109	50	60	69	0.54
-25	-13	17	36	61	43	56	75	0.55
COOLING					TOTAL RECOVERY EFFICIENCY			
35	95	17	36	61	34	50		

NOTE: All specifications are subject to change without notice.

ERV70T (TOP PORTS)

VK0074A

2: EXHAUST AIR FROM BUILDING PORT
1: FRESH AIR TO BUILDING PORT
3: FRESH AIR FROM OUTDOOR PORT
4: EXHAUST AIR TO OUTDOOR PORT

15 7/16"

3 FT. POWER CORD

ø 4" TYP.
2 3/8"

18 5/8"
16 5/16"

15 1/16"
15 5/8"

1: FRESH AIR TO BUILDING PORT
2: EXHAUST AIR FROM BUILDING PORT
3: FRESH AIR FROM OUTDOOR PORT
4: EXHAUST AIR TO OUTDOOR PORT

NOTE: ALL UNITS PORTS WERE CREATED TO BE CONNECTED TO DUCTS HAVING A MINIMUM OF 4" DIAMETER, BUT IF NEED BE, THEY CAN BE CONNECTED TO BIGGER SIZED DUCTS BY USING AN APPROPRIATE TRANSITION (E.G.: 4" DIAMETER TO 5" DIAMETER TRANSITION).

SPECIFICATIONS

- Model: ERV70
- Part Number Top Ports: ERV70T
- Part Number Side Ports: ERV70S
- Total Assembled Weight (including polymerized paper core): 34 lb. (15.2 kg)
- Round 4" ports

- Core Filters: 2 washable foam filters, 30 ppi
  9.2" x 5.75" x 0.38"
  (23.4 cm x 16.6 cm x 1 cm)

- Housing: Pre-painted steel
- Insulation: Expanded polystyrene

- Mounting: Suspension by chains and spring or optional wall bracket

- Supply and Exhaust Blower Motor: 1 motor
  - Protection type: Thermally protected
  - Insulation class: B

- Speed Control on Unit:
  - Low speed and high speed
  - Other modes available with optional wall controls
- Energy Recovery Core:
  - Heat Exchange Surface Area: 42.3 ft.² (3.9 m²)
  - Type: Crossflow
  - Material: Polymerized paper
- Unit Electrical Characteristics:

Volts	Frequency	Ampere	Watts
120	60 Hz	0.5	60

Project:	REMARKS
Location:	
Part no.:	
Qty.:	
Submitted by: Date:	