



BROAN™ ERV70 Series

Part no. ERV70T (TOP PORTS)

Part no. ERV70S (SIDE PORTS)

35 to 70 CFM (0.4 in. w.g.)



ERV70T



ERV70S

The BROAN™ ERV70 Series of Energy Recovery Ventilators

The BROAN™ ERV70 Series is an ideal choice for condos, 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 BROAN™ ERV70 Series has one blower (patent pending) and is 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 requiring maintenance can be removed in less than 5 minutes allowing easy access for repairs. The PSC motor is permanently lubricated.

WARRANTY

The BROAN™ ERV70 Series is protected by a 2-year warranty on parts only. The energy recovery core is covered by a 5-year warranty, with the original proof of purchase.

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.

Options

- Exclusive wall mounting bracket ACCWMK

Defrosting System

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

| OUTSIDE 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

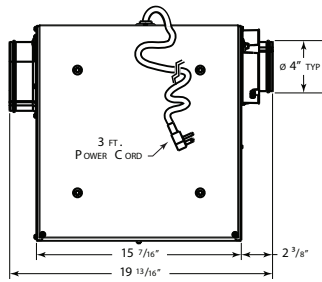
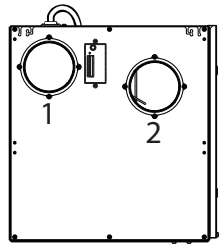
Requirements and standards

- 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

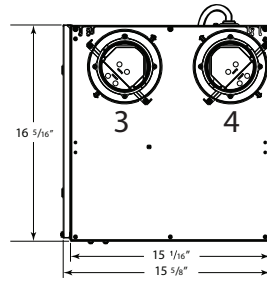
Available at :

DIMENSIONS: BROAN™ ERV70S (Side Ports)

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



- 3: FRESH AIR FROM OUTSIDE PORT
4: EXHAUST AIR TO OUTSIDE 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

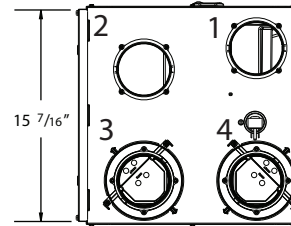
| EXTERNAL STATIC PRESSURE | | NET SUPPLY AIR FLOW | | | GROSS AIR FLOW | | | | | |
|-----------------------------|----------|------------------------|-----|-------------------|----------------|-----|-------------------|---------|-----|-------------------|
| | | | | | SUPPLY | | | EXHAUST | | |
| PA | IN. W.G. | L/S | CFM | M ³ /H | L/S | CFM | M ³ /H | L/S | CFM | M ³ /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

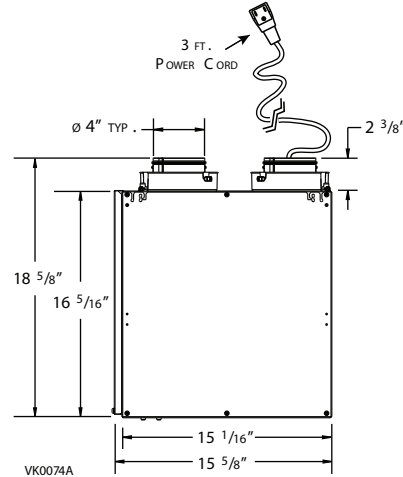
| SUPPLY TEMPERATURE | | NET AIR FLOW | | | POWER CONSUMED WATTS | SENSIBLE RECOVERY EFFICIENCY | APPARENT SENSIBLE EFFECTIVENESS | LATENT RECOVERY/ MOISTURE TRANSFER |
|-----------------------|-----|--------------|-----|-------------------|----------------------------|------------------------------------|---------------------------------------|--|
| | | L/S | CFM | M ³ /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 | | | | | | | | |
| 35 | 95 | 17 | 36 | 61 | 34 | TOTAL RECOVERY EFFICIENCY | | 50 |

NOTE: All specifications are subject to change without notice.

BROAN™ ERV70T (Top Ports)



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

- Part Number Top Ports:
- Part Number Side Ports:
- Total Assembled Weight (including polymerized paper core): 34 lb. (15.2 kg)
- Round 4" ports
- Core Filters: 2 washables, MERV 6
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 auxiliary 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: | |

BROAN

Broan-NuTone LLC, 926 West State Street, Hartford, WI 53027 (1-800-637-1453)

www.broan.com



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