



BROAN® ERV140TE

Part no. ERV140TE

84 to 140 CFM (0.4 in. w.g.) 53 to 105 CFM (0.4 in. w.g.)
67 to 120 CFM (0.4 in. w.g.) 40 to 80 CFM (0.4 in. w.g.)



The New BROAN® ERV140TE Ultra-Efficient and Environmentally-Friendly Energy Recovery Ventilator

The ERV140TE has been designed to be one of the most energy-efficient ERV air exchangers available on the market. Its innovative design incorporates high performance ECM* motors which consume significantly less electricity. ERVs are ideal for LEED®-certified residential projects and other energy-efficient homes because they recover the heat or coolness of the indoor air while helping to maintain comfortable moisture levels inside the home.

- Perfect for drier homes using humidifiers in heating season and air conditioning during cooling season
- Compact footprint allows an easy fit in restricted spaces
- No drain required**
- State-of-the-art ECM motors provide significant electrical consumption savings
- 6" metal ports located on top of unit to simplify installation and provide a cleaner appearance
- Integrated pressure taps and balancing dampers to quickly measure and balance the air-flow
- Faster and easier installation of insulated flexible ducts with practical straps
- Homeshield™ defrosting system (no negative pressure)

*Electronically Commutated Motor.

**For most climate zones.

REPAIRS AND MAINTENANCE

The ERV140TE's high output ECM* motors are permanently lubricated. The electronic circuit board eliminates electromechanical parts, reducing repair time to a minimum.

WARRANTY

The ERV140TE unit is protected by a 2-year warranty on all parts, and a 5-year warranty on the energy recovery core.

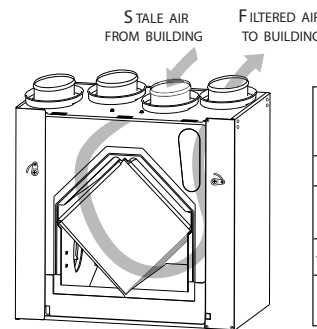
ENERGY RECOVERY VENTILATOR

Controls

- This unit is very simple to operate. Once it is installed, press on its push button, located under the unit, to activate it. Press once for low speed, once again for high speed, and once more to stop it.

Homeshield™ Defrosting System

The ERV140TE uses a unique 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.



| OUTSIDE TEMPERATURE | | DEFROST CYCLE DEFROSTING MIN./ OPERATING MIN. |
|---------------------|------------------|---|
| °C | °F | |
| WARMER THAN -10 | WARMER THAN 14 | No DEFROST |
| -10 TO -27 & LESS | 14 TO -17 & LESS | 7/25 |
| | | 10/22 |

Energy Recovery Core

Dimensions: 10" x 10" x 14.25"
(25.4 cm x 25.4 cm x 36.2 cm)

Exchange surface: 110 ft² (10.2 m²)

Weight: 20 lb (9.1 kg)

Material: Polymerized paper

Type: Cross Flow

Warranty: 5 year

Requirements and Standards

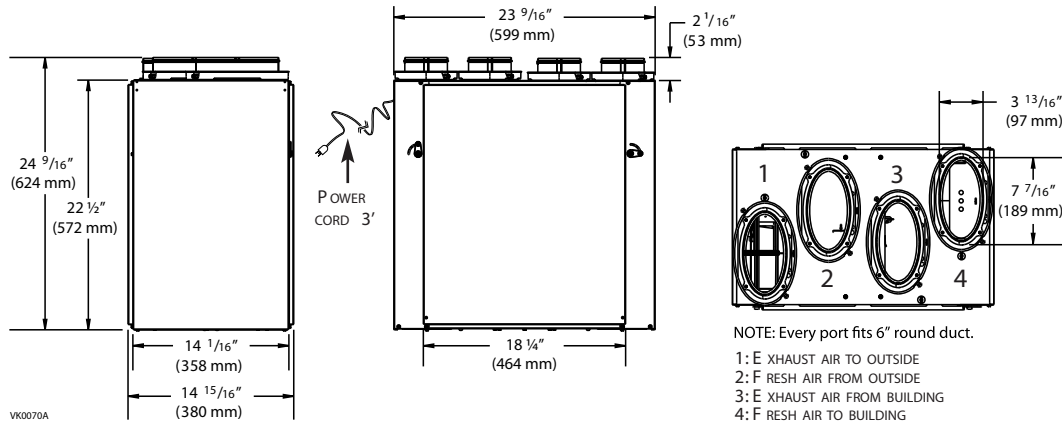
- Complies with the UL 1812 requirements regulating the installation of Energy Recovery Ventilators
- Complies with the CSA C22.2 no. 113 Standard applicable to ventilators
- Complies with CSA C444 requirements regulating the installation of Energy Recovery Ventilators
- Technical data was obtained from published results of tests relating to CSA C439 Standards
- HVI certified and ENERGY STAR® qualified*

Available at:



*This product earned the ENERGY STAR® by meeting strict energy efficiency guidelines set by Natural Resources Canada and the US EPA. It meets ENERGY STAR® requirements only when used in Canada.

Dimensions and Service Clearances: BROAN® ERV140TE



NOTE: Every port fits 6" round duct.

- 1: E XHAUST AIR TO OUTSIDE
- 2: FRESH AIR FROM OUTSIDE
- 3: E XHAUST AIR FROM BUILDING
- 4: FRESH AIR TO BUILDING

Ventilation Performance

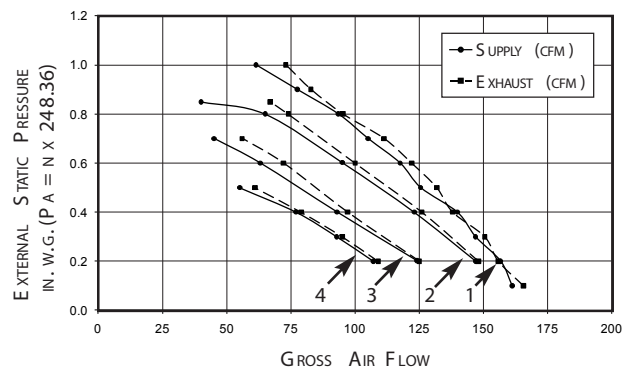
| EXT. STATIC PRESSURE | | NET SUPPLY AIR FLOW | | | GROSS AIR FLOW | | | | | |
|----------------------|----------|---------------------|-----|-------------------|----------------|-----|-------------------|---------|-----|-------------------|
| PA | IN. W.G. | L/S | CFM | M ³ /H | SUPPLY | | | EXHAUST | | |
| | | | | | L/S | CFM | M ³ /H | L/S | CFM | M ³ /H |
| 25 | 0.1 | 76 | 161 | 274 | 77 | 163 | 277 | 78 | 166 | 282 |
| 50 | 0.2 | 74 | 157 | 267 | 75 | 158 | 268 | 74 | 156 | 265 |
| 75 | 0.3 | 69 | 147 | 250 | 70 | 149 | 253 | 71 | 150 | 255 |
| 100 | 0.4 | 66 | 140 | 238 | 67 | 142 | 241 | 65 | 138 | 234 |
| 125 | 0.5 | 59 | 125 | 212 | 60 | 127 | 216 | 62 | 132 | 224 |
| 150 | 0.6 | 55 | 117 | 199 | 56 | 119 | 202 | 58 | 122 | 207 |
| 175 | 0.7 | 50 | 105 | 178 | 50 | 107 | 182 | 53 | 111 | 189 |
| 200 | 0.8 | 44 | 93 | 158 | 45 | 95 | 161 | 45 | 95 | 161 |
| 225 | 0.9 | 37 | 77 | 131 | 37 | 79 | 134 | 39 | 83 | 141 |
| 250 | 1.0 | 29 | 61 | 104 | 29 | 62 | 105 | 34 | 73 | 124 |

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 | | | | |
| HEATING | | | | | | | |
| 0 | 32 | 24 | 52 | 24 | 67 | 73 | 0.59 |
| 0 | 32 | 31 | 65 | 30 | 67 | 72 | 0.55 |
| 0 | 32 | 39 | 83 | 36 | 65 | 71 | 0.52 |
| 0 | 32 | 57 | 122 | 60 | 62 | 67 | 0.46 |
| -25 | -13 | 33 | 70 | 39 | 60 | 75 | 0.61 |
| 35 | 95 | 24 | 51 | 24 | 52* | 71 | 0.51 |

*Total recovery efficiency

Fan Curve according to Speed



CFM (L/S = CFM X 0.4719) (M³/H = L/S X 3.6)

- SPEED RANGE 1: 84 TO 140 CFM
- SPEED RANGE 2: 67 TO 120 CFM
- SPEED RANGE 3: 53 TO 105 CFM
- SPEED RANGE 4: 40 TO 80 CFM

NOTE: All specifications are subject to change without notice.

Specifications and Ratings

- Model: ERV140TE
- Part number: ERV140TE
- Total assembled weight (including polymerized paper core: 65 lb (29.5 kg)
- Oval shaped ports; fit 6" round ducts
- Drains: Optional
- Core filters: 2 washable Merv 7
9.2" x 14.25" x 3.8"
(23.4 cm x 36.2 cm x 9.6 cm)
- Housing: Pre-painted steel
- Insulation: Expanded polystyrene
- Mounting: Suspension by chains & springs
- Supply & Exhaust blower motors: 2 ECM motors
 - Protection type: Thermally protected
 - Insulation class: B
- Speed control on unit:
 - Low and high speed
 - Other modes available with Altitude or Deco-Touch main control
- Energy recovery core:
 - Heat exchange surface area: 110 ft² (10.2 m²)
 - Type: Cross flow
 - Material: Polymerized paper
- Unit electrical characteristics:

| | | | |
|-------|-----------|---------|-------|
| Volts | Frequency | Amperes | Watts |
| 120 | 60 Hz | 1.3 | 90 |

| PROJECT: | REMARKS |
|---------------|---------|
| LOCATION: | |
| MODEL NO.: | |
| QTY.: | |
| SUBMITTED BY: | DATE: |



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