# BLAULITE HRV 8

## Heat recovery ventilators for commercial applications

## Casing

- Steel casing is covered with high quality multilayer aluminium and zinc alloy to prevent corrosion. The casing is equipped with a switch to turn the ventilator off when the service panel is opened. Service access from both left and right side. For outdoor installation the roof is necessary (optional).

## Heat recovery core

- Unique plate heat exchanger is made of polystyrene and designed for high-efficient heat recovery. The stainless steel drain pan is located on the inlet and outlet sides.

## Fans

- The unit is equipped with supply and exhaust centrifugal fans with backward curved blades and built-in thermal overheating protection with automatic restart. The electric motors and impellers are dynamically balanced.

## Defrost system

- Fan stop defrost system is activated when the outdoor temperature falls below 23 °F (-5 °C).

## Filter

- Washable MERV 6 air filters in exhaust and supply air streams.
- Filters MERV 8, MERV 13 optional.

### HRV 8

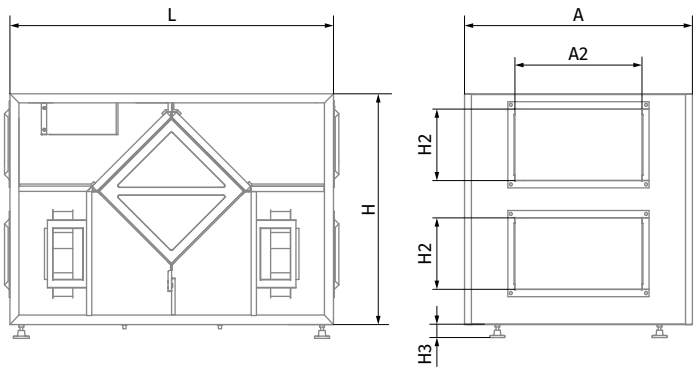
| Additional Air Pressure Drop with optional filters | | |
|---|---|---|
| Filter type | Air flow [CFM] | |
| | 150 | 300 |
| MERV 8 | 0.04 | 0.08 |
| MERV 13 | 0.25 | 0.5 |

## Control

- The unit incorporates an integrated automation and control system with following functions:
  - Operation mode switch.
  - Air flow balancing by supply and exhaust fan independent speed adjustment.
  - Automatic recovery core frost protection.
  - External control device connection.

## Overall dimensions [in]

| Model | A | A2 | H | H2 | H3 | L |
|---|---|---|---|---|---|---|
| Blaulite HRV 8 | 25 ½ | 14 | 26 | 8 | 4 | 36 ½ |

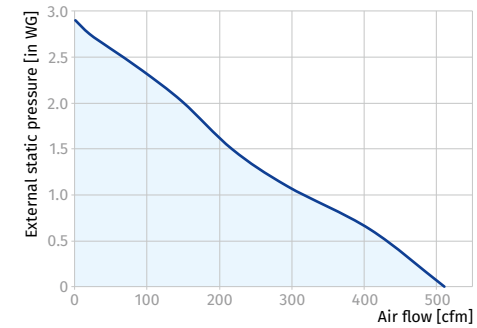


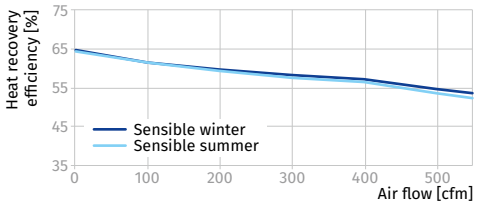

| MODEL | QUANTITY | COMMENTS | PROJECT |
|---|---|---|---|
| | | | location: |
| | | | architect: |
| | | | engineer: |
| | | | contractor: |
| | | | submitted by: |

## Technical data

| Parameters | Blaulite HRV 8 |
|---|---|
| Voltage [V / 60 Hz] | 1 ~ 120 |
| Unit power [W] | 640 |
| Unit current [A] | 5.4 |
| Minimum circuit Amps [MCA] | 6.8 |
| Maximum over current protection [MOP] | 8.8 |
| Sensible effectiveness @ max air flow [%] | 54 |
| Air flow @ ESP 0.4" WG [CFM] | 450 |
| Air flow max [CFM] | 510 |
| Transported air temperature [F] | -35 … +140 |
| Outer skin casing material | 21 gauge galvanized steel |
| Insulation | 1" mineral wool |
| Connected air duct size [in] | 8×14 |
| Net [lb] | 148 |
| Gross [lb] | 258 |

### BLAULITE HRV 8




Note: Efficiencies are based on AHRI standard conditions

| Accoustic Noise Power Chart at unit ports [dBA] | | |
|---|---|---|
| Air flow | Fresh air to building port | Exhaust air from building port |
| 450 CFM at 0.4 in. w.g. | 76 | 76 |
| 180 CFM at 0.2 in. w.g. | 59 | 59 |

| | Summer mode | | | Winter mode | | |
|---|---|---|---|---|---|---|
| | Outdoor Air | Return Air | Supply Air | Outdoor Air | Return Air | Supply Air |
| Standard Flow Rate [CFM] | 450 | 450 | 450 | 450 | 450 | 450 |
| Dry Bulb [°F] | 95 | 75 | 83.9 | 35 | 70 | 54.7 |
| Wet Bulb [°F] | 78 | 63 | 74.8 | 33 | 58 | 46.2 |
| Enthalpy (H) [BTU/lb] | 41.5 | 28.6 | 38.5 | 12.2 | 25.1 | 18.3 |
| Moisture Ratio (MR) [gr/lb] | 117.3 | 66.7 | 115.3 | 24.4 | 52.6 | 32.7 |