

# AIR-85-F

## HEAT RECOVERY VENTILATOR

Cold weather certified for year-round ventilation



### ENGINEERING DATA

#### THERMALLY CONDUCTIVE, PATENTED ALUMINUM CORE

The cross-flow heat recovery core transfers heat between the two airstreams. It is easily removed for cleaning or service.

#### MOTORS AND BLOWERS

Each airstream has an independent motorized impeller with multiple fan speed operations.

#### FILTERS

Washable MERV-6 air filters in exhaust and supply airstreams.

#### MOUNTING

Four threaded inserts at corners of the cabinet designed to accept the "S" hooks and hanging straps supplied with the unit.

#### DEFROST MODE

Fan defrost mode is temperature sensor activated, and periodically shuts down supply air motor.

#### CASE

Twenty gauge prepainted galvanized steel for superior corrosion resistance. Insulated to prevent exterior condensation. Two drain connections, both are 1/2 in. (12 mm) OD. Balancing ports are located on unit.

#### INSTALLER SELECTABLE HIGH SPEED SETTINGS

Adjustable DIP switches are located on the circuit board, Hi3 is the factory setting. Refer to the installation manual for the adjustment instructions.

#### ELECTRONICS

An optional control can be wall mounted in a central location of the home. 3-wire 20 gauge (min.), 100 ft length (max.).

### OPTIONAL ACCESSORIES:

**Dual Hood**  
99-190  
99-194



**Weather Hood**  
99-185  
99-186  
99-187



**TechGrille**  
99-EAG4  
99-EAG5  
99-EAG6  
99-EAG8



**Terminator Fitting**  
99-TM4  
99-TM5  
99-TM6



### AIRFLOW CONTROL OPTIONS

FEATURES	99-GDXPL03	99-GBC02	99-GBC03	99-GBC04
5 speed fan operation on each mode	✓			
2 speed fan operation (Low/High)		✓		✓
Continuous low speed fan operation	✓	✓	✓	✓
Humidity control through adjustable Dehumidistat	✓	✓	✓	
Large digital LCD screen	✓			
LED status indicator lights		✓	✓	✓
Continuous Ventilation	✓	✓	✓	✓
Continuous Recirculation*	✓		✓	
20 ON/40 OFF	✓		✓	✓
10 ON/50 OFF	✓			
20 ON/40 Recirculation*	✓		✓	✓
20/40/60 min. High speed override button	✓			
Compatible with 99-DET02 Wireless Timer	✓	✓	✓	✓
3 wire connection	✓	✓	✓	✓

\*Recirculation features not available on fan defrost models.

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### TIMER OPTIONS

#### 99-DET01 - Airflow 20/40/60 Minute Timer

Initiates high speed ventilation for 20, 40 or 60 minutes. 3-wire connection.

#### 99-DET02 - Wireless Airflow 20/40/60 Minute Timer

Initiates high speed ventilation for 20, 40 or 60 minutes. Wirelessly connects to main control for ease of installation. 40' approximate range.

#### 99-RX02 - Wireless Airflow Repeater

Extends range of 99-DET02 Wireless Timers. Plugs into 120 V power outlet. Wirelessly connects to main control and 99-DET02. Install at halfway point between timer and main wall control if timer is out of range.



99-GBC02 99-GBC03 99-GBC04 99-DET02 99-DET01



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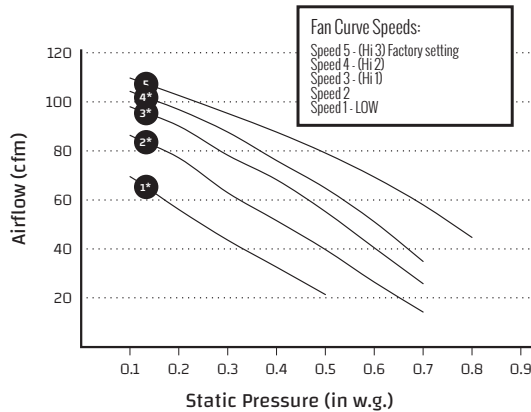
### PERFORMANCE (HVI CERTIFIED)

IN. W.G. (PA)	0.1 (25) CFM (L/s)	0.2 (50) CFM (L/s)	0.3 (75) CFM (L/s)	0.4 (100) CFM (L/s)	0.5 (125) CFM (L/s)	0.6 (150) CFM (L/s)	0.7 (175) CFM (L/s)	0.8 (200) CFM (L/s)
Net Supply Airflow	106 (50)	99 (46)	92 (43)	84 (40)	76 (36)	67 (31)	56 (26)	43 (20)
Gross Supply Airflow	106 (50)	99 (46)	92 (43)	85 (40)	76 (36)	67 (31)	56 (26)	43 (20)
Gross Exhaust Airflow	110 (52)	103 (48)	95 (45)	87 (41)	79 (37)	69 (32)	57 (27)	43 (20)

ELECTRICAL SPECIFICATIONS	
VAC @ 60Hz	120
*Watts/Low Speed	32
*Watts/High Speed	54
Amp Rating	0.5

*Sensible Effectiveness (ASE) @49 CFM (23L/s)	32°F (0°C)	69%
*Sensible Effectiveness (ASE) @64 CFM (30L/s)	32°F (0°C)	67%
Sensible Efficiency (SRE) @64 CFM (30L/s)	32°F (0°C)	60%
Sensible Efficiency (SRE) @57 CFM (27L/s)	-13°F (-25°C)	57%

\* Not an HVI certified data point



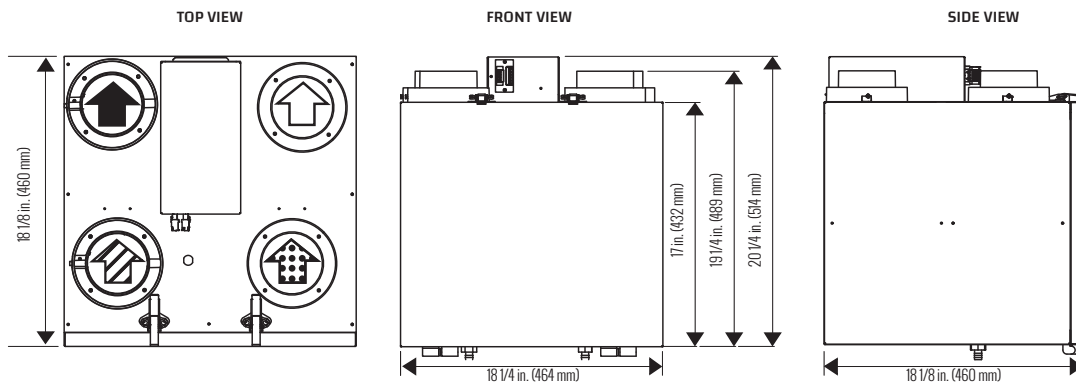
WEIGHT:  
36 LBS (16.3 KG)

SHIPPING WEIGHT:  
44 LBS (20 KG)

**NOTE:**  
Front clearance of 25 in. (635 mm) is recommended for servicing unit. All ports fitted with 4 in. (102 mm) round collars



### DIMENSIONS



#### Airflow:

- Stale Air to Outside
- Fresh Air from Outside
- Stale Air from Inside
- Fresh Air to Inside

Date: \_\_\_\_\_ Contractor: \_\_\_\_\_

Tag: \_\_\_\_\_ Supplier: \_\_\_\_\_

Project: \_\_\_\_\_ Qty: \_\_\_\_\_ Quote #: \_\_\_\_\_

Engineer: \_\_\_\_\_ Submitted By: \_\_\_\_\_

Control: \_\_\_\_\_ Timer: \_\_\_\_\_ Timer Qty: \_\_\_\_\_

### WARRANTY

Units carry a lifetime warranty on the HRV core and a 5 year replacement parts warranty.

All units conform to CSA and UL standards



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