

# AIR-180-ERV-F-ECM

## ENERGY RECOVERY VENTILATOR



### THE NEXT GENERATION OF COMPACT DESIGN & EFFICIENCY

- Designed for high-rise condos, apartments and townhomes with limited mechanical space
- Low profile, fits in bulkhead and drop ceilings, slim height 10"
- Ceiling or wall mount
- Flexible CFM operational range
- 3 High speed selections
- Brackets included for easy installation
- No drains required
- Swing open e-box cover for quick access to circuit board and DIP switches
- Convenient hinged door - no screws

### ENGINEERING DATA:

#### AUTO BALANCE

DXPLO3 control allows airflow to be selected for both supply and exhaust air streams. Live air pressure measurements enable automatic and continuous adjustment of fan speeds to ensure constant user selected airflow.

#### TOTAL RECOVERY CORE

Cross-flow energy recover core transfers heat and water vapor between two airstreams. Easily removed for cleaning or service.

#### MOTORS AND BLOWERS

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

#### MERV 6 FILTERS

Washable air filters in exhaust and supply airstreams. Upgrade to MERV 13 option available.

#### MOUNTING

Mounting brackets supplied for ceiling or wall installation

#### FROST PREVENTION

Temperature sensor activated, periodically shuts down supply motor. Drains not required.

#### CASE

20 gauge prepainted galvanized steel for superior corrosion resistance, insulated to prevent exterior condensation.

#### OPTION FEATURES

Hardwired, mirrored, and Fault Indication Display (FID) are available.

See manual for details.

### OPTIONAL ACCESSORIES:

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



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



**Wireless 20/40/60 Min Timer**  
99-DET02



**Dual Hood**  
99-190



**Weather Hoods**  
99-185



### AIRFLOW CONTROL OPTIONS

FEATURES	99-GDXPLO3
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	✓
Auto Balance	✓

### TIMER OPTIONS

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

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

#### 99-DET02 - 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 ft approximate range.

#### 99-RX02 - Wireless Repeater

Extends range of 99-DET02 Wireless Timers. Plugs into 120V 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-GDXPLO3



99-DET02



99-DET01

\*Recirculation features not available on fan defrost models.

AIR-180-ERV-F-ECM 0523



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## ENERGY RECOVERY VENTILATOR

**Cold weather certified for year-round ventilation**



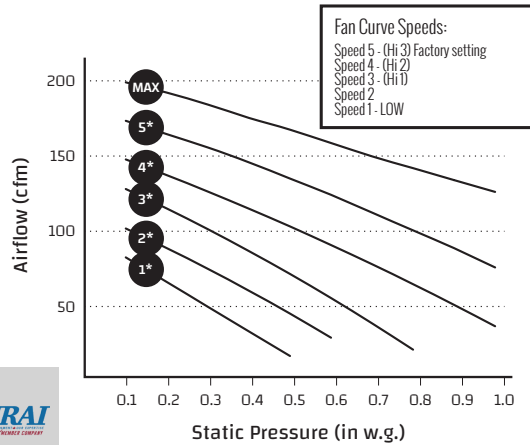
### PERFORMANCE

IN. W.G. (PA)	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)	0.9 (225) CFM (L/s)
Net Supply Airflow	191 (90)	184 (87)	176 (83)	167 (79)	159 (75)	150 (71)	140 (66)	133 (63)
Gross Supply Airflow	193 (91)	186 (88)	178 (84)	170 (80)	159 (75)	150 (71)	142 (67)	133 (63)
Gross Exhaust Airflow	201 (95)	193 (91)	184 (87)	176 (83)	167 (79)	159 (75)	148 (70)	140 (66)

ELECTRICAL SPECIFICATIONS	
VAC @ 60Hz	120
Watts @ 64 CFM (30 L/s)	28
*Amp Rating	2.0

* Sensible Efficiency (ASE) @ 64 CFM (30 L/s)	32°F (0°C)	88%
Sensible Efficiency (SRE) @ 64 CFM (30 L/s)	32°F (0°C)	84%
Sensible Efficiency (SRE) @ 72 CFM (34 L/s)	-13°F (-25°C)	62%
Total Efficiency (TRE) @ 64 CFM (30 L/s)	95°F (35°C)	60%

\* Not an HVI certified data point



WEIGHT:  
**42 LBS (19 KG)**

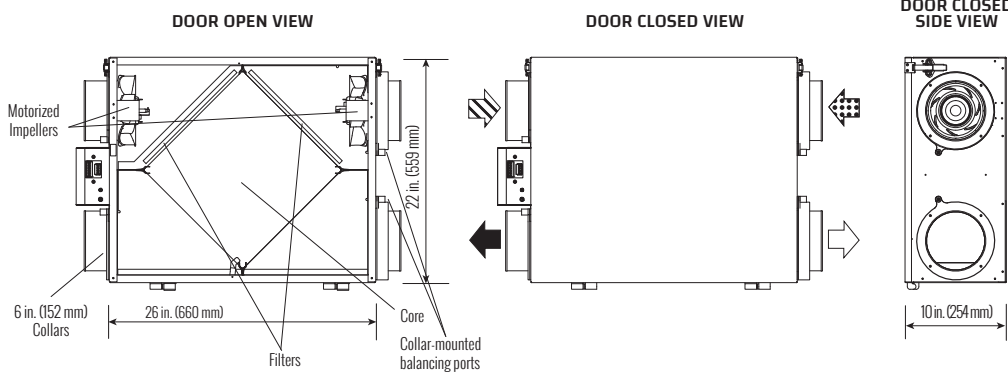
SHIPPING WEIGHT:  
**44 LBS (20 KG)**

**NOTE:**  
Front clearance of 22 in. (559 mm) is recommended for servicing unit. All ducts use 6 in. (152 mm) round collars.

MERV 13 Upgrade: 65-195-6R



### DIMENSIONS



#### Standard Airflow:

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

#### Mirrored Airflow:

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

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

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

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

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

Project: \_\_\_\_\_ Qty: \_\_\_\_\_

Quote #: \_\_\_\_\_

Engineer: \_\_\_\_\_

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

Control: \_\_\_\_\_

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

#### WARRANTY

Units carry a 5 year warranty on the enthalpic (ERV) core and a 5 year replacement parts warranty.

All units conform to CSA and UL standards



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