



## INDOOR & ROOFTOP APPLICATIONS

## FIELD ADJUSTABLE AIR FLOW FROM 0-1000 CFM

## 4 ECM SPEED-INPUT OPTIONS

### SPECIFICATION

**CORE:** Static Plate, Crossflow. Certified to AHRI 1060

-HRV: Polypropylene, 2 x p/n *PC1414A* (AHRI Ref.# PC14)

-ERV: Enthalpic membrane, 2 x p/n *EC1414A* (AHRI Ref.# EC14)

-Core segment dimensions: 14"L x 14"W x 14"H ea.

### CABINET/CONSTRUCTION

-Dimensions (incl. lifting frame): 52"L x 30"W x 37.5"H

-2 doors for flexible component access and reversible field orientation of unit

-Door-mounted pressure ports for air flow balancing

-Single-wall 22 GA galvanized steel, 1" foil-faced rigid insulation

-Configurations A and E (see drawings) available

-Duct connections: 14" x 8". Weather hoods c/w bird screen.

-Drain connections (when used): 1/2"

-Unit Weight: 250 lbs (114 kg) Shipping Weight: 285 lbs (130 kg)

### MOTORS - FANS - FILTERS

-2 x 1/2 HP ECM, independently adjustable, p/n 50054

-2 x DWDI direct drive blowers, p/n 50778

-4 x MERV 8 FILTERS, 13.5" x 14" x 1", p/n 50810

### ELECTRICAL

| Voltage/Hz/Phase                      | 120/60/1 | 240/60/1 |
|---------------------------------------|----------|----------|
| Unit Full Load Amps (FLA)             | 11.0     | 6.6      |
| Minimum Current Ampacity (MCA)        | 13.4     | 8.4      |
| Maximum Overcurrent Protection (MOCP) | 15       | 15       |

Non-fused disconnect is standard.

### ELECTRONICS

-4 independently adjustable speeds pots to set and utilize 0-1000 cfm. Highest speed call takes priority.

-End switch: shipped dry, but can be made 24 VAC in the field for independent or remote control

### FROST CONTROL – 4 OPTIONS

-None

-Exhaust only (temperature ON/OFF)

-Timed exhaust (temperature ON/Timed OFF)

-Recirculation

### OPTIONS & ACCESSORIES

-MERV 13 filters, 13.5" x 14" x 1", p/n 50811

-Dirty filter sensors

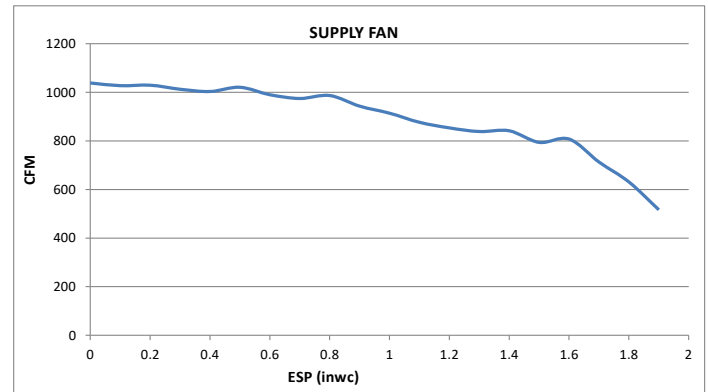
-Outside Air backdraft damper (motorized)

-Exhaust Air backdraft dampers (gravity, motorized)

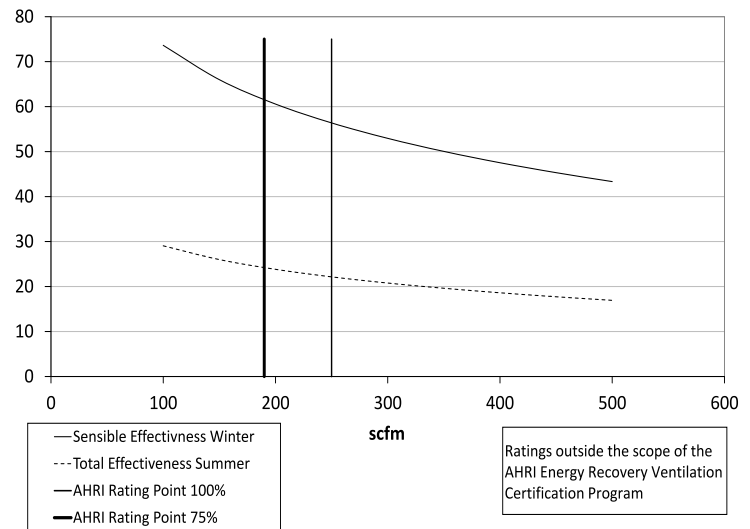
-14" roof curb, p/n *RC14-1000A*

-7-Day programmable timer, p/n 50395

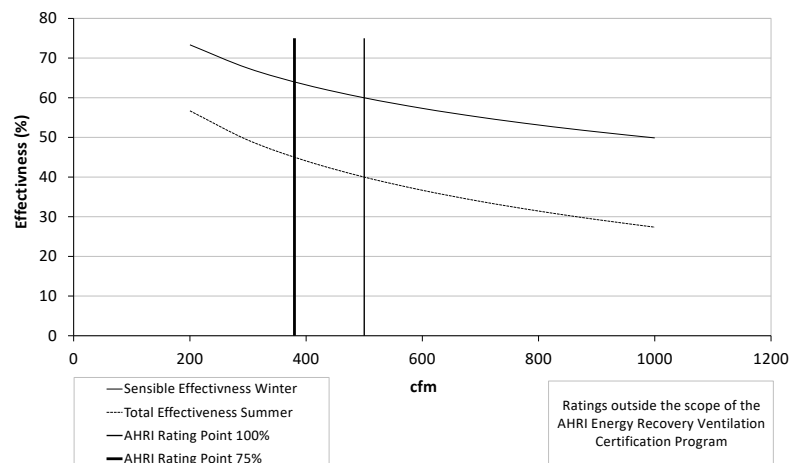
## CONSTANT TORQUE FAN CURVE: HRV & ERV



## EFFECTIVENESS ECM1000 HRV



## EFFECTIVENESS ECM1000 ERV

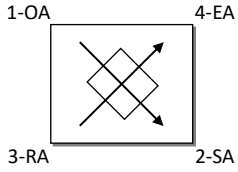


ECM1000 conforms to CSA SPE1000

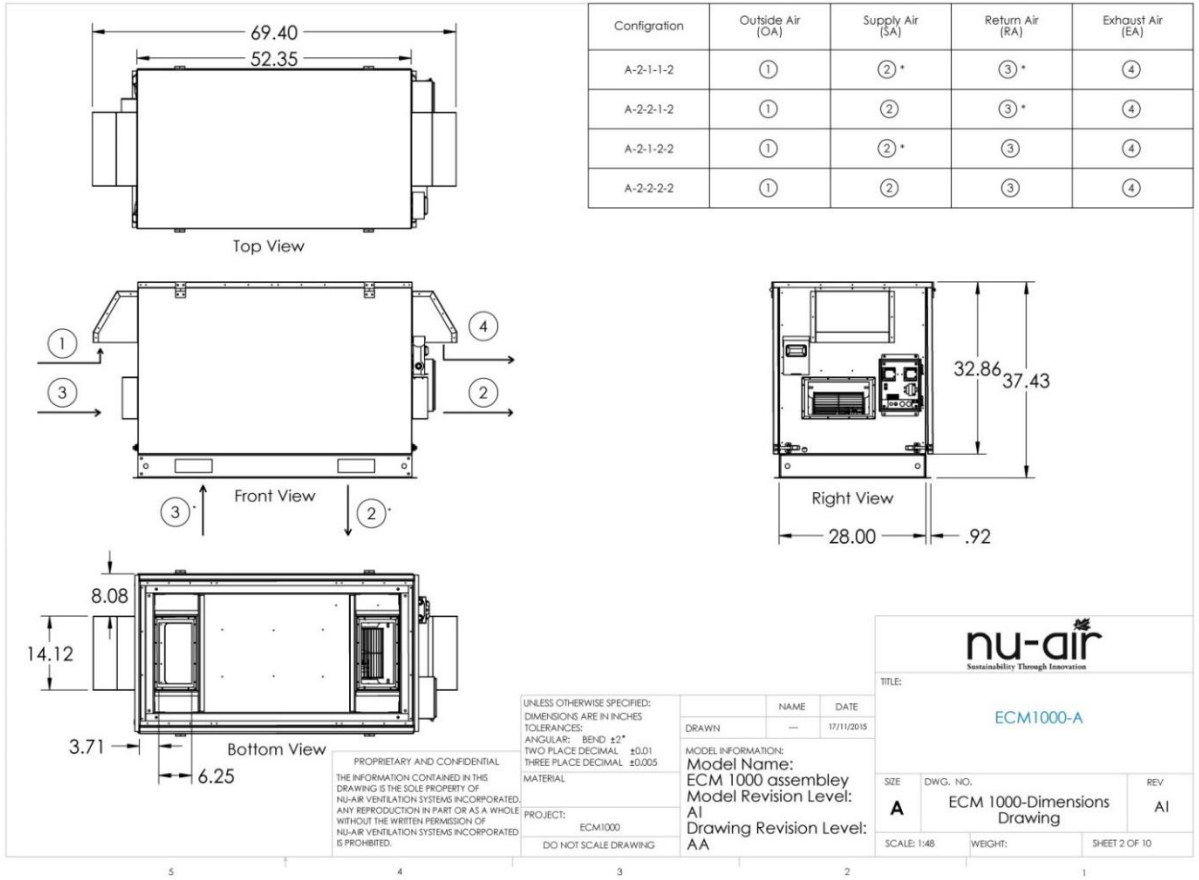
Energy recovery component is certified by AHRI to AHRI Standard 1060. Actual performance in packaged equipment may vary.

# SHOP DRAWINGS (indoor & outdoor versions shown)

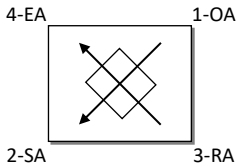
CONFIG. A



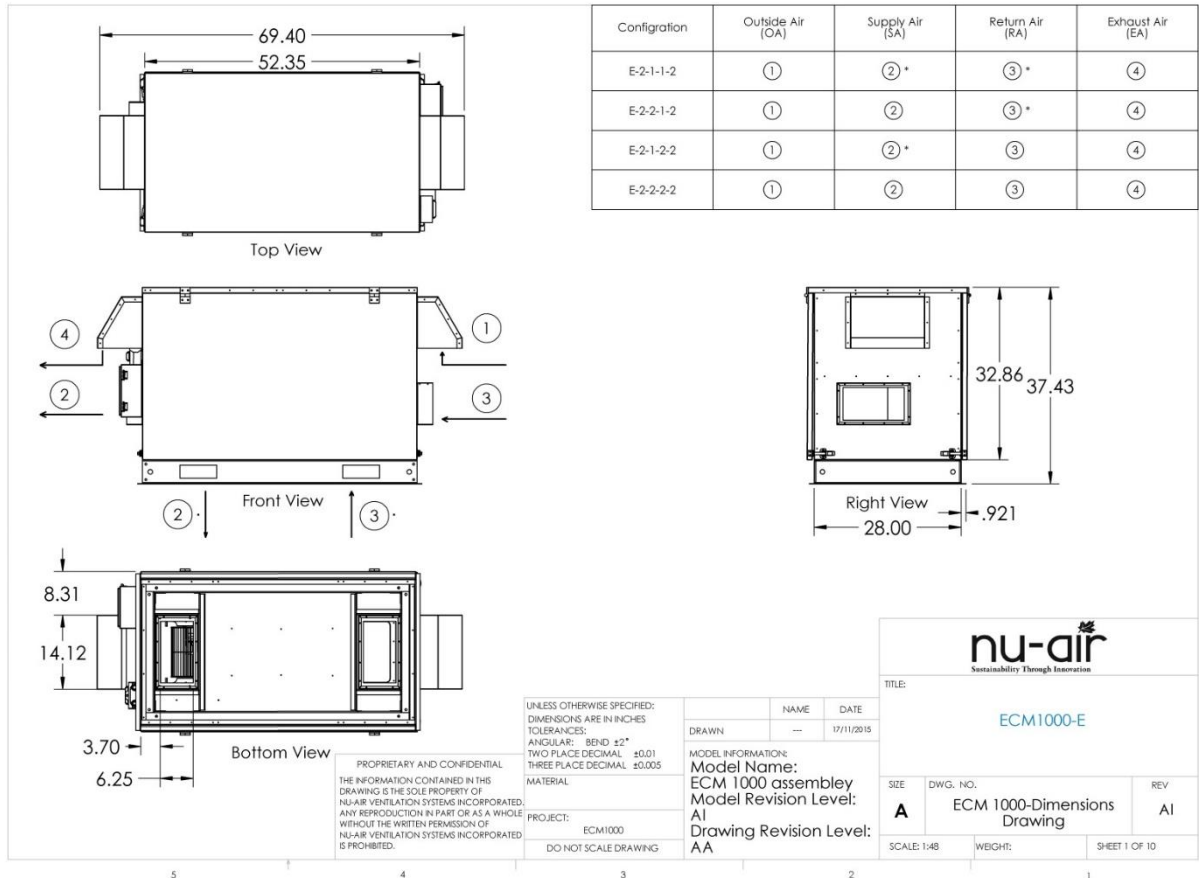
NOTE: All duct connections are 14" x 8"



CONFIG. E



NOTE: All duct connections are 14" x 8"



**ECM1000** -  -  -  -  -  -  -  -  - **A** - **A** -  - **G** -  - **1** -

**MODEL**  
ECM1000

**CONFIGURATION**  
A  
E

**OUTSIDE AIR (OA)**  
2-Horizontal  
4-Horizontal w/ mtr BD damper

**SUPPLY AIR (SA)**  
1-Vertical  
2-Horizontal

**RETURN AIR (RA)**  
1-Vertical  
2-Horizontal

**EXHAUST AIR (EA)**  
2-Horizontal  
4-Horizontal w/ gravity BD damper  
\* Horizontal w/ mtr BD damper

**DEFROST**  
0-None  
1-Fan  
2-Timed Fan  
3-Recirculation

**LOCATION**  
I-Indoor  
E-Outdoor

**END SWITCH**  
1-Yes

**24 VAC DIRTY FILTER CONTACT**  
0-No  
1-Yes

**CABINET SKIN**  
G-Galvanized

**RECOVERY CORE**  
P-Polypropylene  
E-Enthalpic

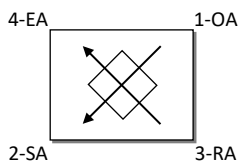
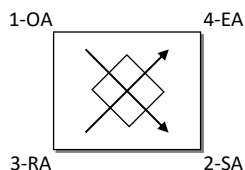
**EXHAUST MOTOR**  
A-1/2 HP

**SUPPLY MOTOR**  
A-1/2 HP

**VOLTAGE**  
1-120/1  
2-240/1

9

CONFIG. E



|                        |                |                        |
|------------------------|----------------|------------------------|
| <b>Air Stream</b>      | <b>Airflow</b> | <b>Static Pressure</b> |
| Supply                 |                |                        |
| Exhaust                |                |                        |
|                        |                |                        |
| <b>Air Temperature</b> | <b>Winter</b>  | <b>Summer</b>          |
| OA, DB                 |                |                        |
| RA, DB                 |                |                        |



|                               |         |
|-------------------------------|---------|
| Project:                      | REMARKS |
| Location:                     |         |
| Unit Designation (e.g. HRV1): |         |
| Submitted by:                 |         |
| Date:                         |         |