

**NEW!** INDOOR UNIT

## ENERGY RECOVERY VENTILATOR EC MOTOR



Energy recovery core is AHRI Certified®



### SPECIFICATIONS

**Ventilation Type:**

Static plate, heat and humidity transfer

**Airflow Range:** 250–1100 CFM

**AHRI 1060 Certified Core:**

One L125-G5

**Standard Features:**

Non-fused disconnect  
24VAC transformer/relay package  
Cross-core differential pressure ports  
Independent blower control

**Filters:**

Total Qty. 2, MERV 8: 20" x 20" x 2"

**Unit Weight:**

194-350 lbs., varies by option(s)

**Max. Shipping Dimensions & Weight (on pallet):**

60" L x 30" W x 55 1/4" H  
385 lbs.

**Motor(s):**

Qty. 2, 370W ea., Direct drive EC motorized impeller packages (208–230V/1Ph/60Hz)

**Options:**

Qty. 2, Direct drive EC motorized impeller packages:  
480W 120V/1Ph/60Hz (Advanced),  
680W 208–230V/1Ph/60Hz (Advanced),  
860W 460V/3Ph/60Hz (Advanced)

Fused disconnect

Integrated programmable controls: enhanced, premium

Bypass economizer damper (see DIM drawing):

dry-bulb temperature controls (standard),

enthalpy controls (option)

Class 1 low leakage motorized isolation dampers:

FA, EA or both airstreams

Factory mounted filter alarms: both airstreams

Double wall construction

Exterior paint: white, custom colors

**Accessories:**

Filters: MERV 13, 2" (shipped loose)

Backdraft damper: 12"

Automatic balancing damper: 4", 5", 6"

Hooded wall vent 12": galvanized, paintable galvanized

Potentiometer speed control: remote installed

Digital time clock: wall mount (TC7D-W),

in exterior enclosure (TC7D-E)

Carbon dioxide sensor/control:

wall mount (CO2-W), duct mount (CO2-D)

IAQ sensor: wall mount (IAQ-W), duct mount (IAQ-D)

Motion occupancy sensor/control:

ceiling mount (MC-C), wall mount (MC-W)

Smoke detector: duct mount (SD-D)

BACnet fan control: wall mount (BACNETFC-W)

Indoor electric duct heater: RH series (1–11.5 kW),

EK series (1–175 kW);

Indirect gas-fired duct furnace: GH series (50–400 MBH);

Installed downstream of any fans

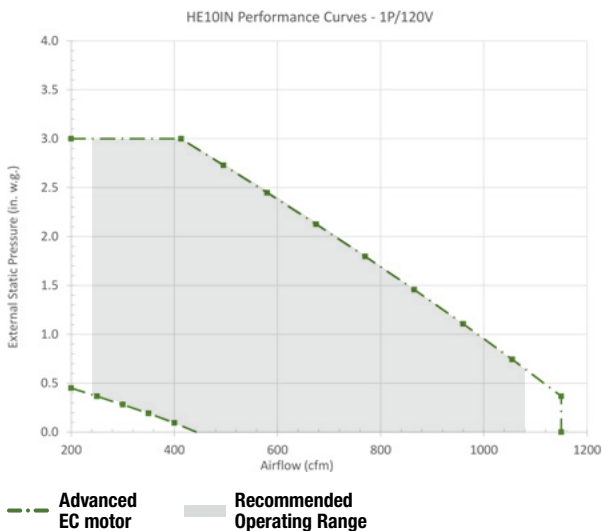
HE+DX coils

Hanging bracket kit

Hanging spring vibration isolation kit

Duct flange kit: square 14" x 14", 2 flanges

### EC MOTOR OPERATING RANGE AND FAN PERFORMANCE



| HE10IN MOTOR 1P/120V Options |                                                |                                |
|------------------------------|------------------------------------------------|--------------------------------|
| Airflow (CFM)                | Advanced EC                                    |                                |
|                              | External Static Pressure (Inches Water Column) | Unit Power Consumption (Watts) |
| 200                          | 3.00                                           | 673                            |
| 413                          | 3.00                                           | 989                            |
| 495                          | 2.73                                           | 1027                           |
| 580                          | 2.45                                           | 1060                           |
| 675                          | 2.13                                           | 1087                           |
| 770                          | 1.80                                           | 1105                           |
| 865                          | 1.46                                           | 1113                           |
| 960                          | 1.11                                           | 1113                           |
| 1055                         | 0.75                                           | 1103                           |
| 1150                         | 0.37                                           | 1084                           |
| 1150                         | 0.00                                           | 877                            |

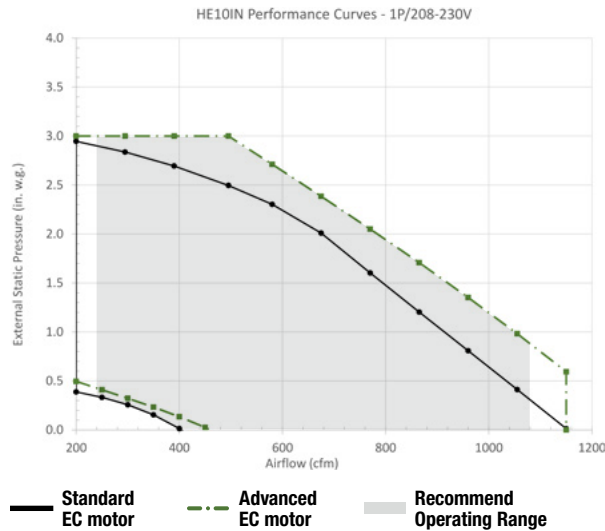
**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.



## ENERGY RECOVERY VENTILATOR EC MOTOR

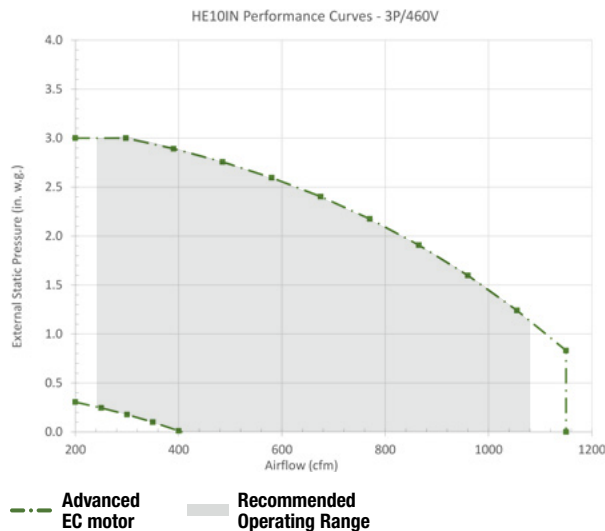


### EC MOTOR OPERATING RANGE AND FAN PERFORMANCE



| HE10IN MOTOR 1P/208-230V Options |                                                |                                |                                                |                                |
|----------------------------------|------------------------------------------------|--------------------------------|------------------------------------------------|--------------------------------|
| Airflow (CFM)                    | Standard EC                                    |                                | Advanced EC                                    |                                |
|                                  | External Static Pressure (Inches Water Column) | Unit Power Consumption (Watts) | External Static Pressure (Inches Water Column) | Unit Power Consumption (Watts) |
| 200                              | 2.95                                           | 571                            | 3.00                                           | 672                            |
| 295                              | 2.84                                           | 658                            | 3.00                                           | 809                            |
| 390                              | 2.69                                           | 737                            | 3.00                                           | 953                            |
| 495                              | 2.50                                           | 813                            | 3.00                                           | 822                            |
| 580                              | 2.30                                           | 864                            | 2.71                                           | 1158                           |
| 675                              | 2.01                                           | 900                            | 2.38                                           | 1190                           |
| 770                              | 1.60                                           | 900                            | 2.05                                           | 1215                           |
| 865                              | 1.20                                           | 900                            | 1.71                                           | 1231                           |
| 960                              | 0.81                                           | 900                            | 1.35                                           | 1239                           |
| 1055                             | 0.41                                           | 900                            | 0.98                                           | 1239                           |
| 1150                             | 0.01                                           | 900                            | 0.59                                           | 1232                           |
| 1150                             |                                                |                                | 0.00                                           | 877                            |

**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.



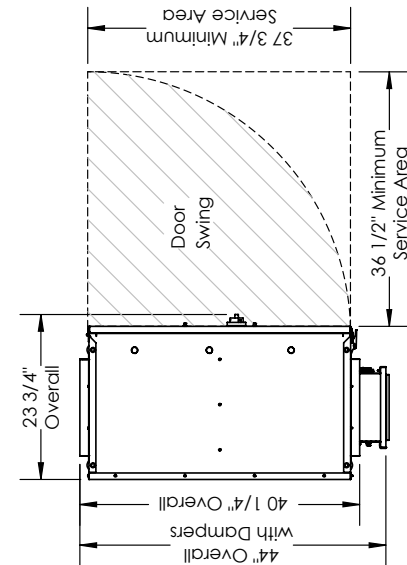
| HE10IN MOTOR 3P/460V Options |                                                |                                |
|------------------------------|------------------------------------------------|--------------------------------|
| Airflow (CFM)                | Advanced EC                                    |                                |
|                              | External Static Pressure (Inches Water Column) | Unit Power Consumption (Watts) |
| 200                          | 3.00                                           | 807                            |
| 298                          | 3.00                                           | 928                            |
| 390                          | 2.89                                           | 1015                           |
| 485                          | 2.76                                           | 1105                           |
| 580                          | 2.60                                           | 1191                           |
| 675                          | 2.40                                           | 1273                           |
| 770                          | 2.18                                           | 1346                           |
| 865                          | 1.91                                           | 1408                           |
| 960                          | 1.60                                           | 1456                           |
| 1055                         | 1.24                                           | 1488                           |
| 1150                         | 0.83                                           | 1501                           |
| 1150                         | 0.00                                           | 1097                           |

**Note:** Airflow performance includes effect of clean, standard filter supplied with unit.

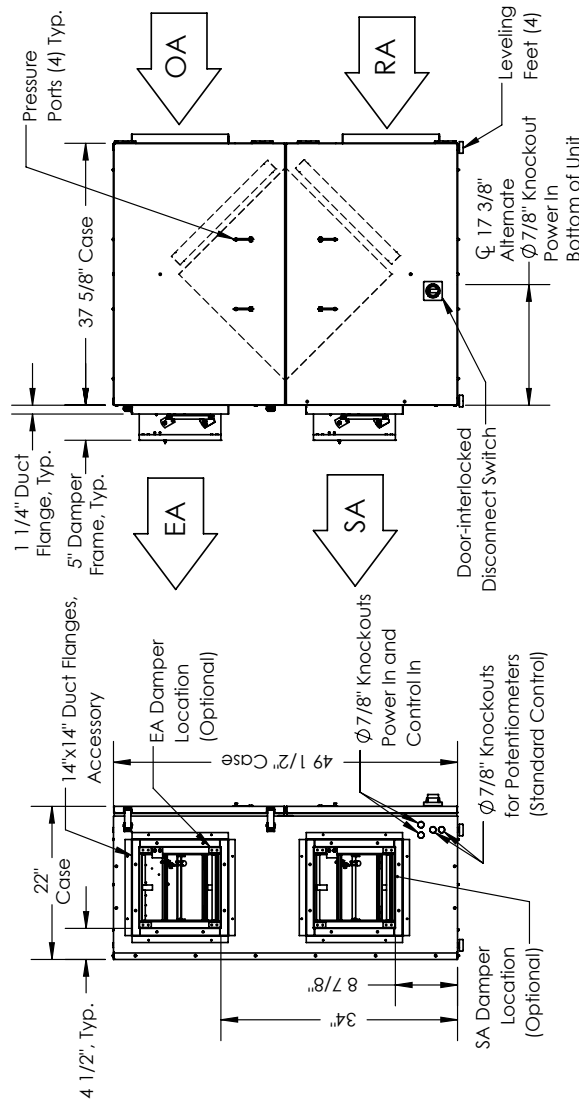
### ELECTRICAL DATA

| Option        | Watts | Volts   | Hz | Phase  | FLA per motor | Min. Cir. Amps | Max. Overcurrent Protection Device |
|---------------|-------|---------|----|--------|---------------|----------------|------------------------------------|
| [EE] Standard | 370   | 208-230 | 60 | Single | 1.73          | 3.9            | 15                                 |
| [AA] Advanced | 480   | 120     | 60 | Single | 6.5           | 14.6           | 20                                 |
|               | 680   | 208-230 | 60 | Single | 5             | 11.3           | 15                                 |
|               | 860   | 460     | 60 | Three  | 1.22          | 2.7            | 15                                 |

# HE10INH ENERGY RECOVERY VENTILATOR EC MOTOR



TOP VIEW



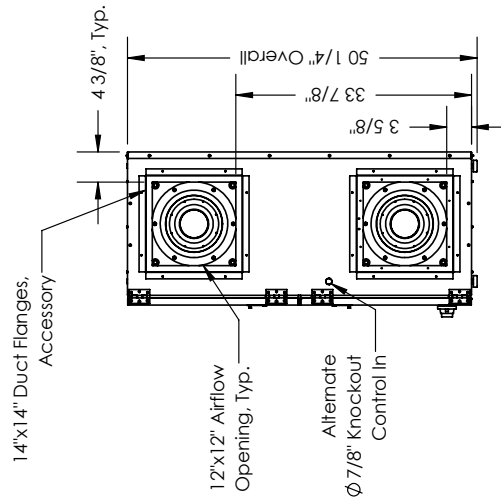
FRONT VIEW

**ABBREVIATIONS**  
 EA: Exhaust Air to Outside  
 OA: Outside Air Intake  
 RA: Room Air to be Exhausted  
 SA: Supply Air to Inside

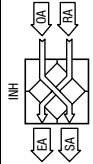
**INSTALLATION ORIENTATION**  
 Unit may be installed in any orientation.

**NOTE**

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



RIGHT VIEW

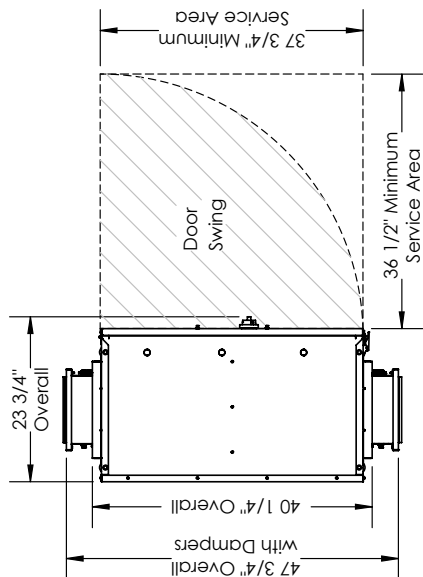


**AIRFLOW ORIENTATION**  
 Available as shown:

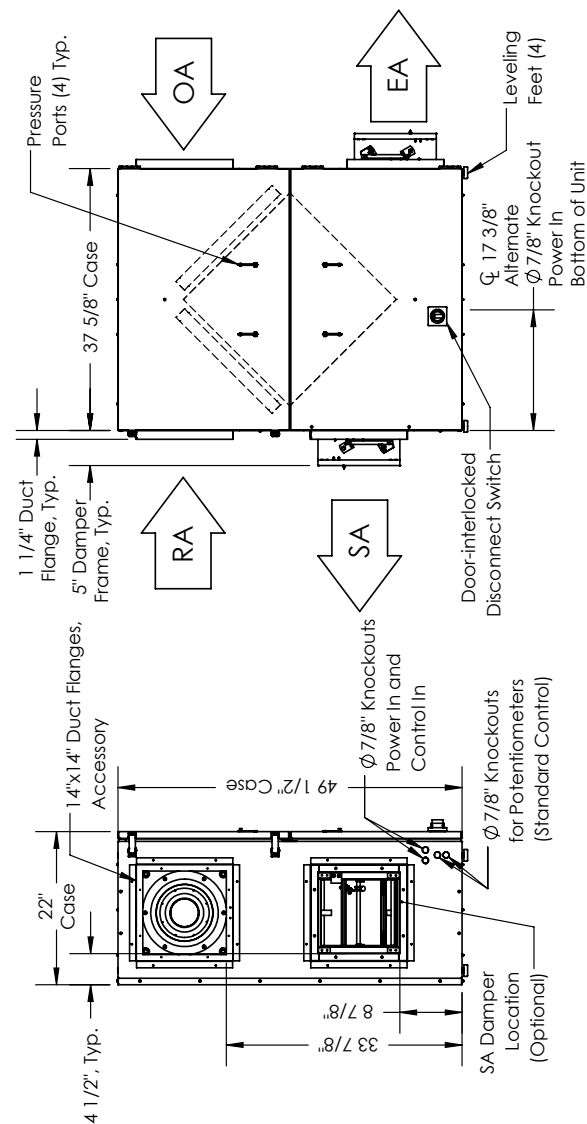
**UNIT MOUNTING & APPLICATION**  
 Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream unless certain options are selected.



# HE10IN<sub>V</sub> ENERGY RECOVERY VENTILATOR EC MOTOR



TOP VIEW



FRONT VIEW

**ABBREVIATIONS**  
 EA: Exhaust Air to Outside  
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 SA: Supply Air to Inside

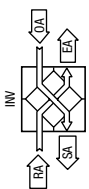
**INSTALLATION ORIENTATION**  
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**NOTE**  
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RIGHT VIEW

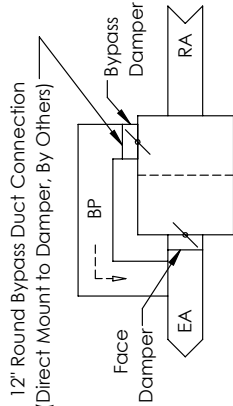
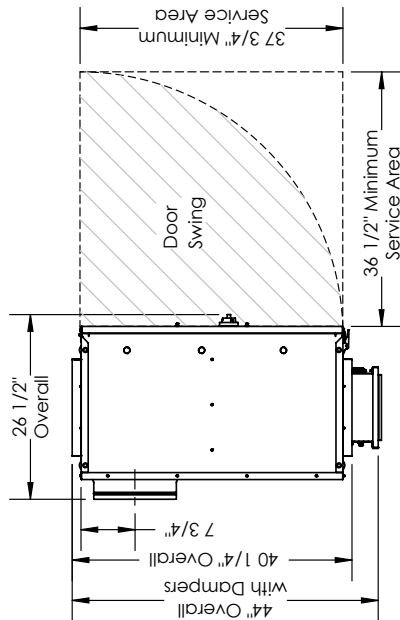
## AIRFLOW ORIENTATION

Available as shown:



## UNIT MOUNTING & APPLICATION

Can be mounted in any orientation. RA/EA airstream can be switched with OA/SA airstream unless certain options are selected.



BYPASS AIRFLOW SCHEMATIC  
TOP VIEW  
(OA/SA Airstream Not Shown)

**ABBREVIATIONS**

EA: Exhaust Air to Outside  
OA: Outside Air Intake  
RA: Room Air to be Exhausted  
SA: Supply Air to Inside  
BP: Bypass Air Outlet

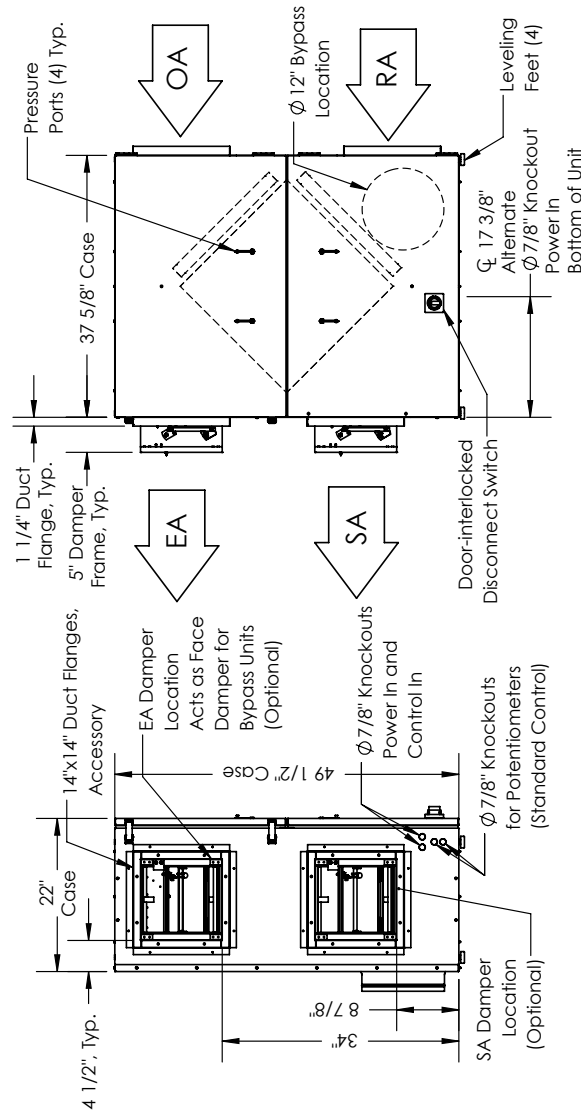
**INSTALLATION ORIENTATION**

Unit may be installed in any orientation.

**NOTE**

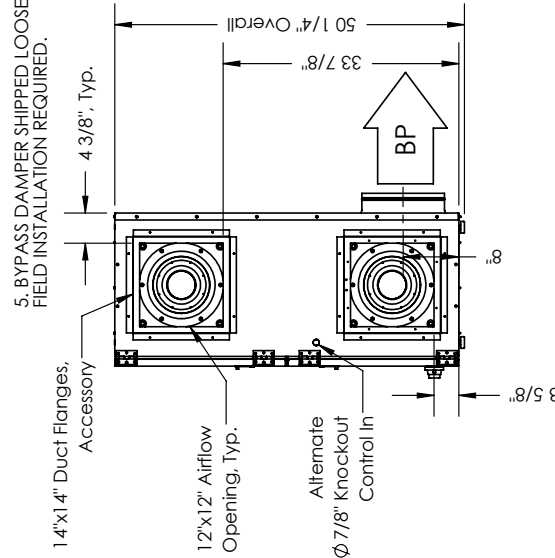
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2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
4. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.
5. BYPASS DAMPER SHIPPED LOOSE, FIELD INSTALLATION REQUIRED.

**TOP VIEW**

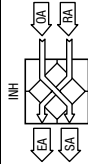


**LEFT VIEW**

**FRONT VIEW**



**RIGHT VIEW**



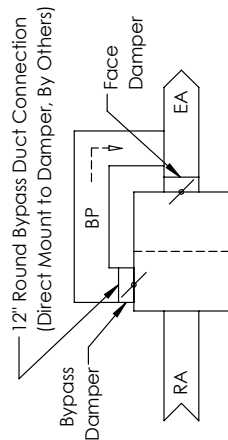
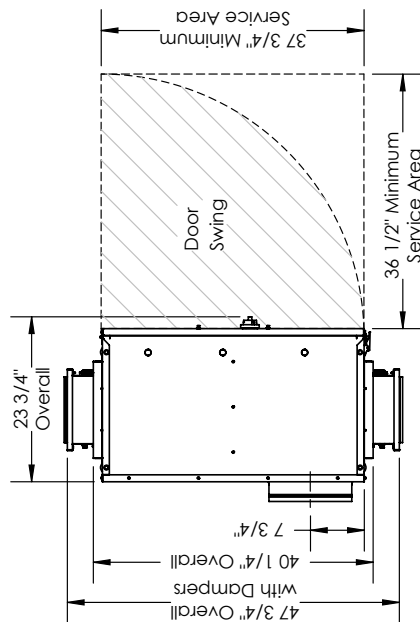
**AIRFLOW ORIENTATION**

Available as shown:



**UNIT MOUNTING & APPLICATION**

Can be mounted in any orientation. Airstream cannot be switched.



BYPASS AIRFLOW SCHEMATIC  
TOP VIEW

(OA/SA Airstream Not Shown)

## ABBREVIATIONS

EA: Exhaust Air to Outside  
OA: Outside Air Intake  
RA: Room Air to be Exhausted  
SA: Supply Air to Inside  
BP: Bypass Air Outlet

## INSTALLATION ORIENTATION

Unit may be installed in any orientation.

## NOTE

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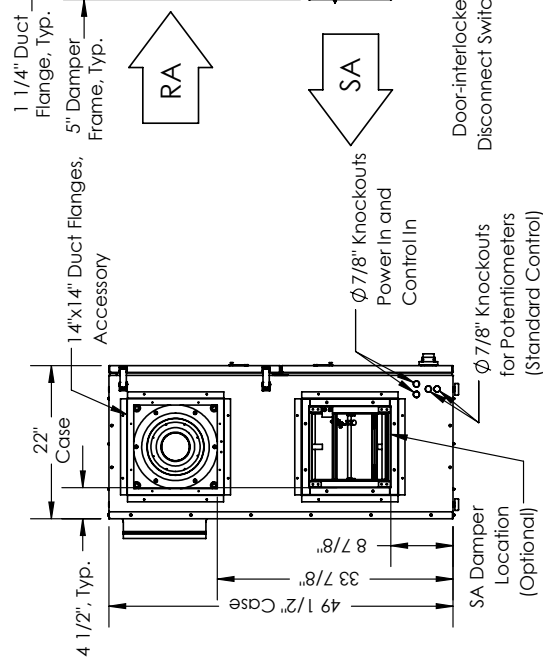
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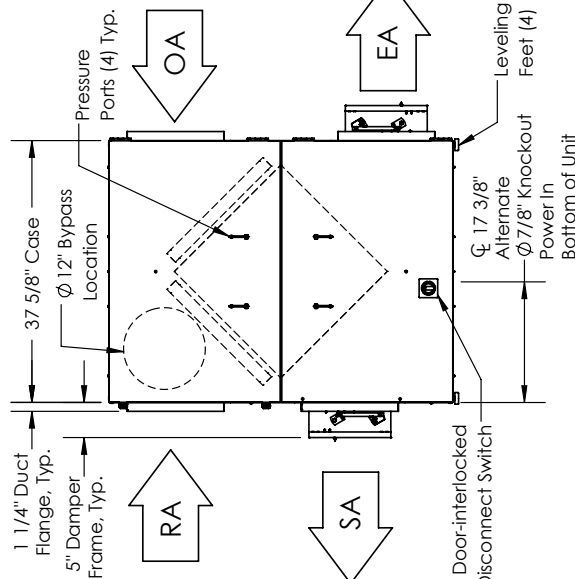
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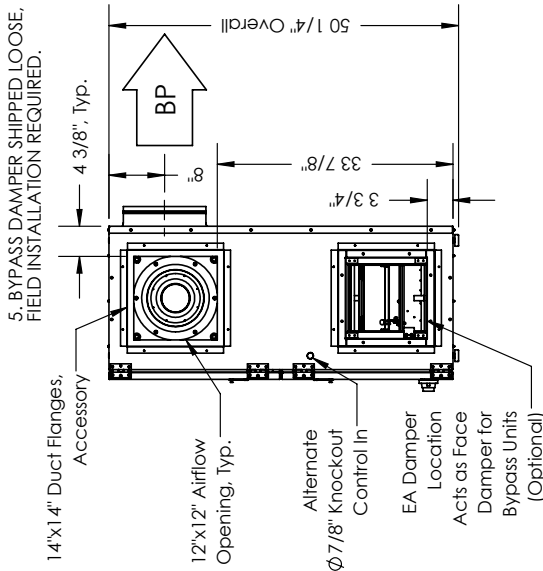
TOP VIEW



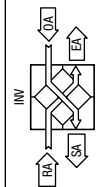
LEFT VIEW



FRONT VIEW



RIGHT VIEW



## AIRFLOW ORIENTATION

Available as shown:



## UNIT MOUNTING & APPLICATION

Can be mounted in any orientation. Airstream cannot be switched.