EV 450IN

Energy Recovery Ventilator
Standard

INDOOR UNIT



Download specification at:
renewaire.com/specifications

SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Typical Airflow Range: 200-540 CFM

AHRI 1060 Certified Core: One L85-G5

Standard Features:
Non-fused disconnect
24 VAC transformer/relay package

Filters:
Total qty. 2, MERV 8: 14" x 20" x 2"

Unit Dimensions & Weight:
54 1/2" L x 16 3/8" W x 36 3/4" H
137-199 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
62" L x 42" W x 22" H
250 lbs.

Motor(s), choice of:
Qty. 1, 0.6 HP (standard single phase)
Qty. 1, 0.5 HP (standard three phase)

Options:
Qty. 1, EC Motor (see EV450IN EC Motor submittal) -
0.5 HP 120V/1Ph/60HZ,
0.5 HP 208-230V/1Ph/60HZ
Integrated programmable controls
Fused disconnect
Qty. 2, Factory mounted filter alarms
Double wall construction
Exterior paint - white, custom colors

Accessories:
Filters - MERV 13, 2" (shipped loose)
Backdraft damper 10"
Wall cap 10" - galvanized, paintable galvanneal
Vibration isolation kit
Hanging bracket kit
Transition kit - 10" round, qty. 2
Flange kit - rectangular 12" x 8", 2 flanges
Solid state speed control kit - 115V, qty. 1,
208-230V, qty. 1
Digital time clock - wall mount (TC7D-W),
in exterior enclosure (TC7D-E)
Motion occupancy control - ceiling mount (MC-C),
wall mount (MC-W)
Carbon dioxide control - wall mount (CO2-W),
duct mount (CO2-D)
Electric duct heater - EK series (1–60 kW)

Note: Indirect Gas-Fired Duct Furnace is not available on the EV450IN.

ELECTRICAL DATA

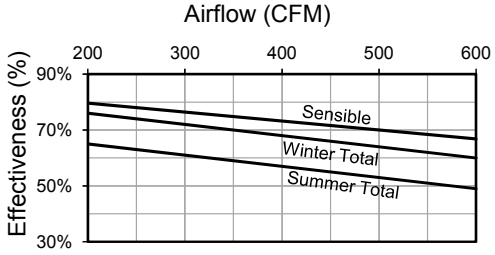
HP	Volts	HZ	Phase	FLA	Min. Cir. Amps	Max. Overcurrent Protection Device
0.6	120	60	Single	7.2	9.0	15
0.6	208-230	60	Single	3.9-3.6	4.9	15
0.6	277	60	Single	3.5	4.4	15
0.5	208-230	60	Three	1.7-1.5	2.1	15
0.5	460	60	Three	0.8	1.0	15

UNIT PERFORMANCE

Airflow CFM	ESP in H_2O	Watts 1P	Watts 3P
225	1.25	335	181
375	0.89	464	333
420	0.75	518	394
480	0.50	584	472
500	0.43	600	491
540	0.25	640	540
575	0.00	690	610

Note: Watts is for the entire unit.
Note: Airflow performance includes effect of clean, standard filter supplied with unit.

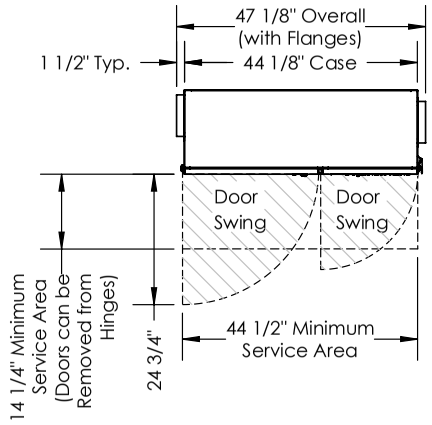
CORE PERFORMANCE



At AHRI 1060 standard conditions. See all AHRI certified ratings at www.ahrinet.org.

Specifications may be subject to change without notice.

EV450IN Energy Recovery Ventilator Standard or EC Motor Option



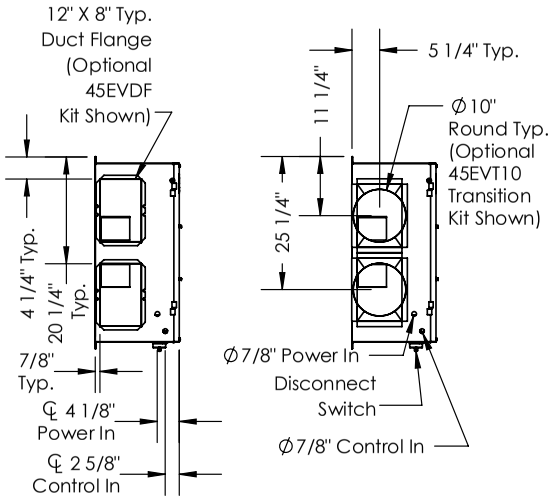
TOP VIEW

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

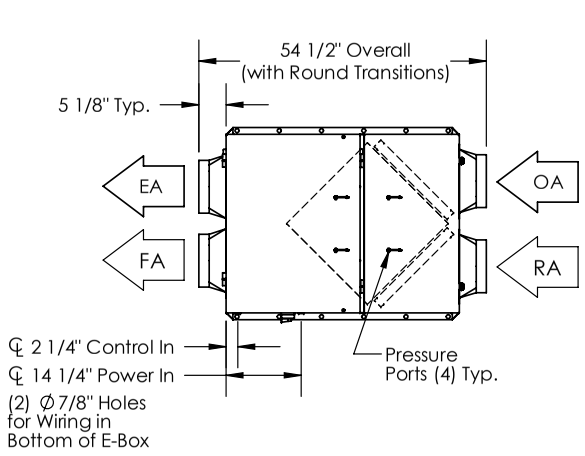
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

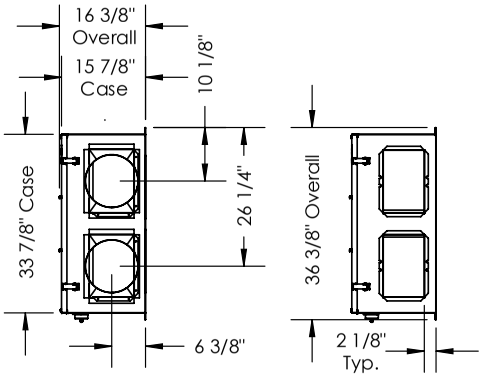
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. RA/EA airstream can be switched with OA/FA airstream.