

EV 450IN

INDOOR UNIT



Energy Recovery Core is AHRI Certified®



Energy Recovery Ventilator Standard



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
Cross-core differential pressure ports

Filters:

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

Unit Weight:

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, Variable Speed/ECM - Direct Drive Motors
(see EV450IN EC Motor submittal) -
0.5 HP, 120V/1Ph/60HZ,
0.5 HP, 208-230V/1Ph/60HZ

Fused disconnect

Integrated programmable controls -
enhanced, premium

Qty. 2, Factory mounted filter alarms -
both airstreams

Double wall construction

Exterior paint - white, custom colors

Accessories:

Filters - MERV 13, 2" (shipped loose)

Backdraft damper - 10"

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

Hooded wall vent 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)

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)

Louver with 10" round duct connection -
12" (W) x 12" (H)

Electric duct heater - RH series (1-11.5 kW);

EK series (1-175 kW);

designed for indoor ductwork installation only

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

ELECTRICAL DATA

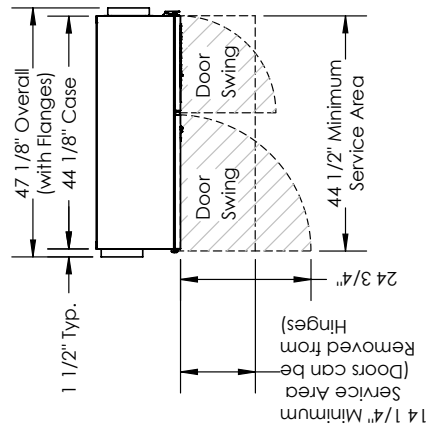
HP	Volts	Hz	Phase	FLA	Min. Cir. Amps	Max. Overcurrent Protection Device
0.6	120	60	Single	7.2	9.0	15
0.6	208-230	60	Single	3.9-3.6	4.9	15
0.6	277	60	Single	3.5	4.4	15
0.5	208-230	60	Three	1.7-1.5	2.1	15
0.5	460	60	Three	0.8	1.0	15

UNIT PERFORMANCE

Airflow CFM	ESP in H ₂ O	Watts	
		1P	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.



ABBREVIATIONS

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

INSTALLATION ORIENTATION

INSTALLATION ORIENTATION

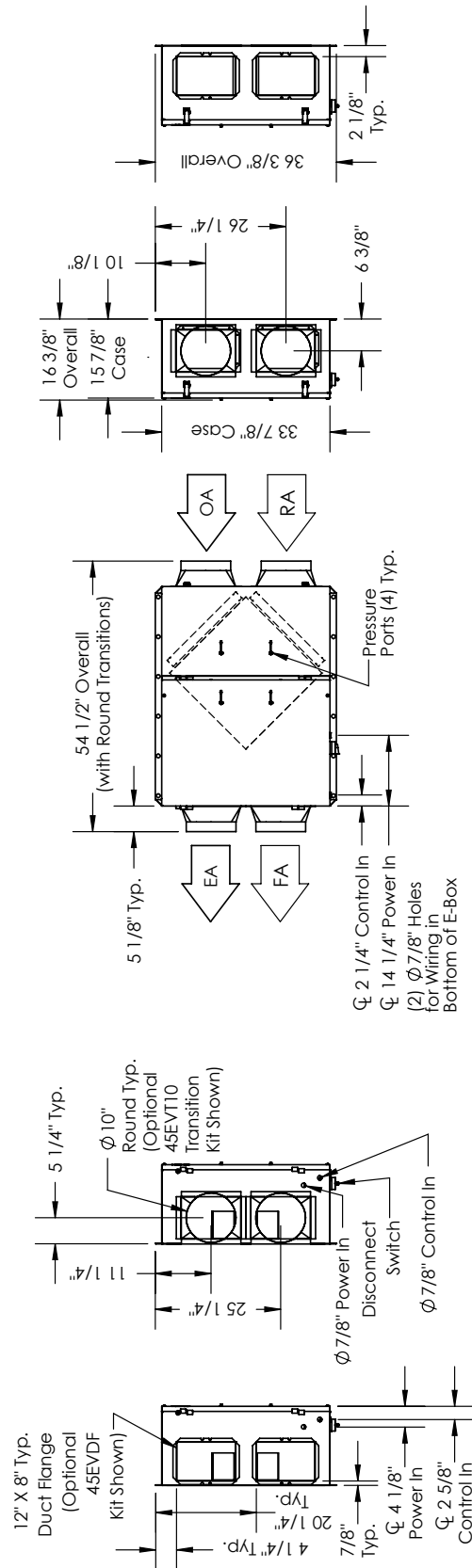
Unit may be installed in any orientation.

NOTE

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

2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

TOP VIEW



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.