

EV 450IN

INDOOR UNIT



Energy Recovery Core is AHRI Certified®



Energy Recovery Ventilator EC Motor Option



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 200-530 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:

140-202 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

62" L x 42" W x 22" H
250 lbs.

Motor(s):

Qty. 1, 0.5 HP, Direct drive EC blower/
motor package

Options:

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
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)
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

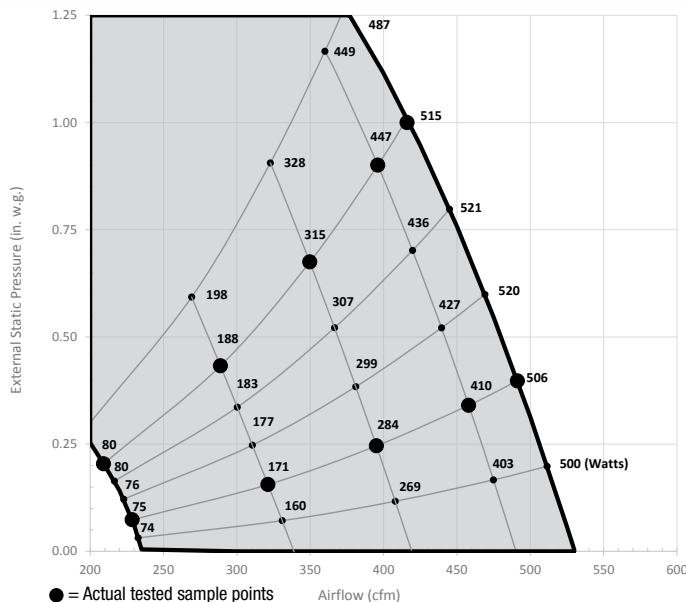
Note: Indirect Gas-Fired Duct Furnace is not available on the EV450IN.

EC MOTOR OPTION OPERATING RANGE

EV450IN EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
229	0.07	75
321	0.16	171
395	0.25	284
458	0.34	410
491	0.40	506
209	0.20	80
289	0.43	188
350	0.67	315
396	0.90	447
416	1.00	515

Note: Watts is for the entire unit.

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



ELECTRICAL DATA

HP	Volts	HZ	Phase	FLA	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	10.1	15
0.5	208-230	60	Single	4.8	6.0	15

ABBREVIATIONS

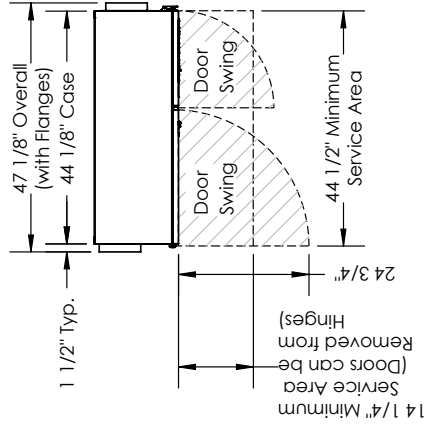
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air to inside

INSTALLATION ORIENTATION

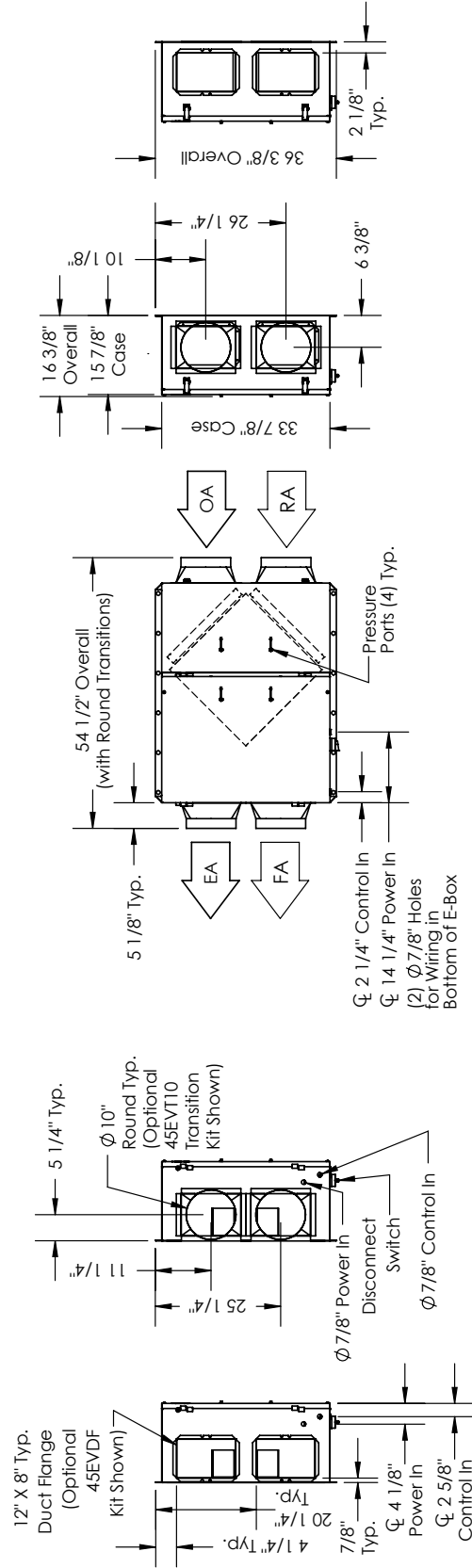
Unit may be installed in any orientation.

NOTE

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



TOP VIEW



RIGHT VIEW

FRONT VIEW

LEFT 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.

