

EV PREMIUM LH

INDOOR UNIT **NEW**

Energy Recovery Ventilator EC Motor



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 30–280 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol: Using one L-100-G5 Core

Standard Features:

- White painted cabinet
- Hard wired to junction box
- Low-voltage circuit for controls
- Unit may be mounted in any orientation
- Cross-core differential pressure ports
- Dial-A-Flow: balance and airflow adjustment
- Variable speed
- Boost-mode

Controls:

Onboard digital controller with independent variable speeds

Filters:

Total qty. 2, MERV 8, spun-polyester media:
10 1/2" x 21 3/4" x 1"

Unit Weight: 52 lbs.

Max. Shipping Dimensions & Weight (in carton):
33" L x 22" W x 29" H
66 lbs.

Motor(s):

Qty. 2, 120V EC motorized impellers

Accessories:

- Backdraft damper: 6", 8"
- Automatic balancing damper: 4", 5", 6"
- Louvered wall vent 6": white, brown
- Louvered wall vent 8": taupe vinyl, galvanized, paintable galvalneal
- Louvered wall vent with 8" round duct connection: 12" W x 8" H
- Hooded wall vent 8": galvanized, paintable galvalneal
- 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)
- Push-button boost timer (PBT)
- Percentage timer control (PTL)
- Percentage timer control with furnace interlock (FM)
- Push-button point-of-use controls (PBL), PTL req'd.
- MERV 13 filter: OA airstream (shipped loose)
- Electric duct heater: RH series (1–8 kW); designed for indoor ductwork installation only

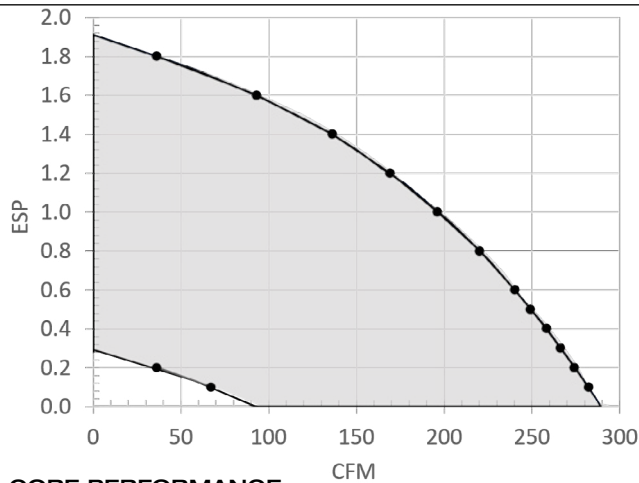
EC MOTOR OPERATING RANGE

Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
Max. Speed		
288	0.1	177
280	0.2	178
269	0.3	179
261	0.4	180
252	0.5	180
244	0.6	180
233	0.7	179
222	0.8	179
212	0.9	178
199	1.0	176
170	1.2	170
136	1.4	160
93	1.6	142
36	1.8	110
Min. Speed		
67	0.1	19
36	0.2	17

Note: Watts is for the entire unit.
Note: Airflow performance includes effect of clean, standard filter supplied with unit.
Note: Refer to CORES for specific operating point electrical data.

ELECTRICAL DATA

Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
85	120	60	1	1.22	10	10



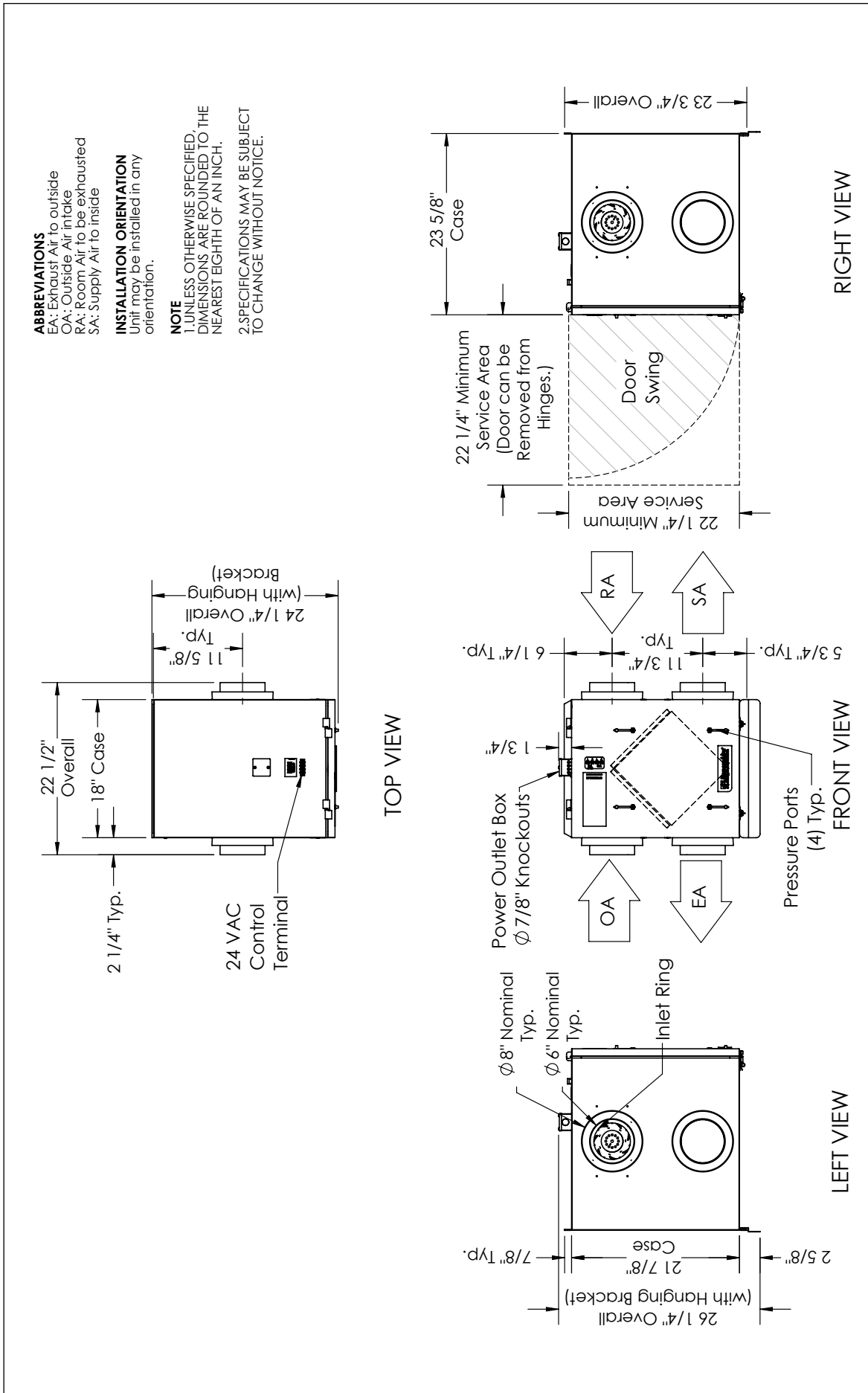
CORE PERFORMANCE

Airflow (CFM)	Sensible EFF%	Total EFF% Winter/Summer
Max. Speed		
288	71	63/45
280	71	64/46
269	72	65/47
261	72	65/48
252	73	66/49
244	73	67/50
233	74	68/51
222	75	69/52
212	75	69/53
199	76	70/54
170	78	73/57
136	80	75/60
93	83	79/64
36	86	83/69
Min. Speed		
67	85	81/67
36	86	83/69

Note: These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 98/78wb OA and 75/63wb RA (summer). HVI ratings apply to complete units only. This unit is HVI certified. See HVI certified ratings on pg. 46 of Single/Multi-Family Catalog and at hvi.org.



EV Premium LH Energy Recovery Ventilator **EC Motor**



AIRFLOW ORIENTATION
 Available as shown in dimension drawing.

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