



## INDOOR UNIT

ENERGY RECOVERY VENTILATOR  
EC MOTORAWARD WINNING  
EV PREMIUM SH

TecHome Builder's 2023 Brilliance Award

**Note:** There are multiple control options designed to address individual climate conditions. Please consult your local installer for the best installation controls for your climate.

## SPECIFICATIONS

**Ventilation Type:**

Static plate, heat and humidity transfer

**Typical Airflow Range:** 30–130 CFM

**Unit is HVI Tested/Certified per CSA C439 Protocol:**  
Using one L-30-G5 Core

**Standard Features:**

White painted cabinet  
Line-cord power supply or hard wired to junction box (H)  
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:  
7 1/2" x 10 1/2" x 1"

**Unit Weight:** 32 lbs.**Max. Shipping Dimensions & Weight (in carton):**

30" L x 22" W x 15" H  
38 lbs.

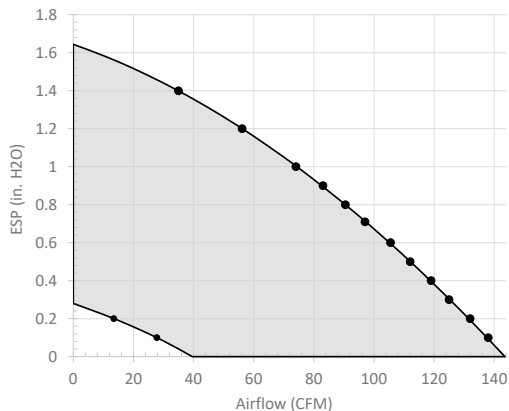
**Units Per Pallet:** 10**Motor(s):**

Qty. 2, 120V EC motorized impellers

**Accessories:**

Backdraft damper: 6", 8"  
Automatic balancing damper: 4", 5", 6"  
Motorized Dampers: 6", 8"  
Concentric Vent: 6" (CV6-110)  
Louvered wall vent 6": white, brown  
Louvered wall vent 8": taupe vinyl, galvanized, paintable galvanized  
Louvered wall vent with 8" round duct connection: 12" W x 8" H  
Hooded wall vent 8": galvanized, paintable galvanized  
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  
BACnet fan control: wall mount (BACNETFC-W)  
MERV 13 filter: OA airstream (shipped loose)  
Electric duct heater: RH series (1–4 kW); designed for indoor ductwork installation only

## EC MOTOR OPERATING RANGE AND CORE PERFORMANCE



● = Actual tested sample points

| = Operating curves, airflow is held constant as static pressure varies

**Factory settings**

1. High speed set to top curve
2. Low speed set to ~90CFM at 0.4 in. w.g. ESP

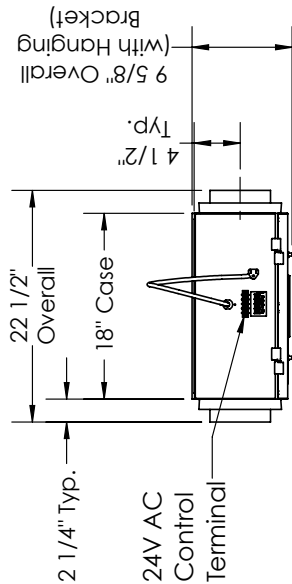
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)	Sensible EFF%	Total EFF% Winter/Summer
<b>Max. Speed</b>				
138	0.10	137	62	54/36
131	0.20	136	64	55/38
125	0.30	134	65	57/40
119	0.40	133	66	58/41
112	0.50	133	67	60/43
106	0.60	130	68	61/45
97	0.70	128	70	63/48
91	0.80	124	71	65/49
83	0.90	121	73	67/52
74	1.00	116	75	69/54
56	1.20	98	78	73/59
35	1.40	85	82	78/65
<b>Min. Speed</b>				
28	0.10	13	83	79/67
13	0.20	12	86	83/71

**Notes:**

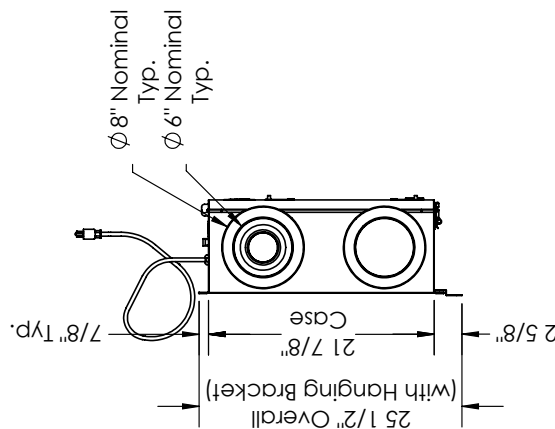
1. Watts is for the entire unit.
2. Airflow performance includes effect of clean, standard filter supplied with unit.
3. Refer to CORES for specific operating point electrical data.
4. These are core-only ratings and are not HVI certified. Total EFF% calculated at 35/33wb OA and 70/58wb RA (winter) and 95/78wb 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.

## ELECTRICAL DATA

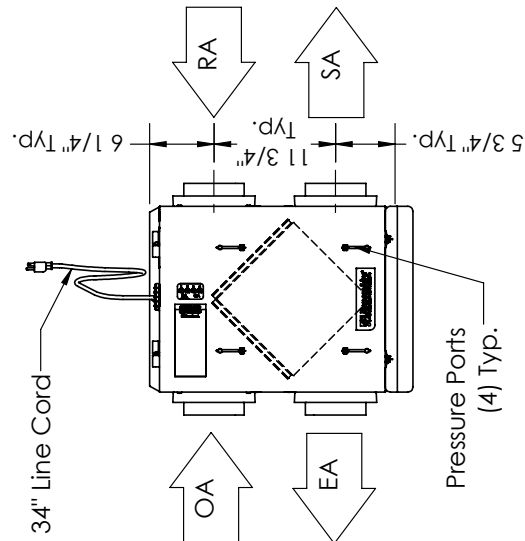
Watts	Volts	Hz	Phase	FLA per motor	Minimum Circuit Amps	Max Overcurrent Protection Device
53	120	60	1	0.85	15	15



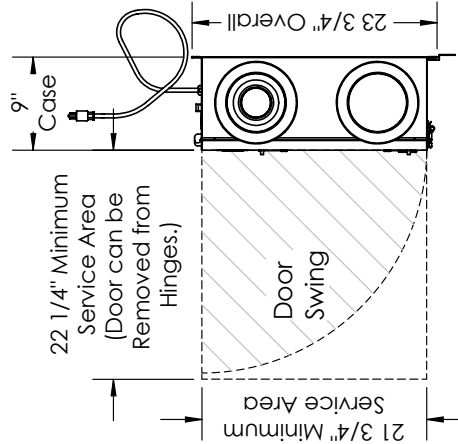
TOP VIEW



LEFT VIEW



FRONT VIEW



RIGHT 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.

**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.