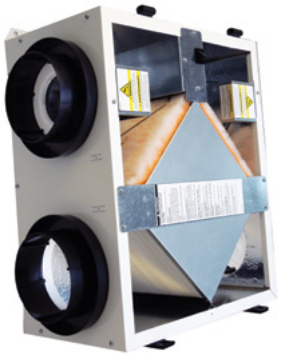
EV 90

ENERGY RECOVERY VENTILATOR

c UL us LISTED DUCTED HEAT RECOVERY VENTILATOR 89S5

INDOOR UNIT



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: 40–110 CFM

Unit is HVI Tested/Certified per CSA C439 Protocol:
Using one L-35-G5 Core

Standard Features:
White painted cabinet
Line-cord power supply
Low-voltage circuit for controls
Unit may be mounted in any orientation
Cross-core differential pressure ports

Control:
Onboard 24VAC transformer/relay package

Filters:
Total qty. 2, MERV 8, spun-polyester media:
9 5/8" x 10 1/2" x 1"

Unit Weight: 36 lbs.

Max. Shipping Dimensions & Weight (in carton):
29" L x 22" W x 15" H
40 lbs.

Units Per Pallet: 10

Motor(s):
Qty. 2, Standard motorized impeller blowers

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
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)
Percentage timer control (PTL)
Push-button point-of-use controls (PBL), PTL req'd.
Percentage timer control with furnace interlock (FM)
MERV 13 filter: OA airstream (shipped loose)
Electric duct heater: RH series (1–3 kW); designed for indoor ductwork installation only

ELECTRICAL DATA

HP	Volts	Hz	Phase	Watts	FLA
0.03	120	60	Single	46 @ 90 CFM	0.35

UNIT PERFORMANCE

Airflow (CFM)	External Static Pressure (Inches Water Column)
36	0.60
53	0.50
68	0.40
81	0.30
93	0.20
108	0.10

CORE PERFORMANCE

Airflow (CFM)	Temp EFF%	Total EFF% Winter/Summer
36	78	75/65
53	74	69/58
68	70	65/53
81	67	61/49
93	64	58/45
108	61	55/42

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. 47 of Single/Multi-Family Catalog and at hvi.org.

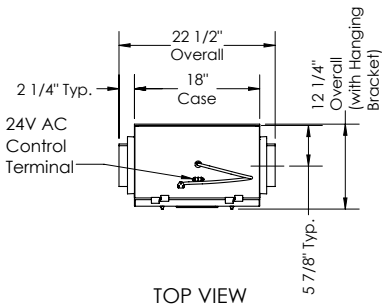
UNIT DIMENSIONS

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.



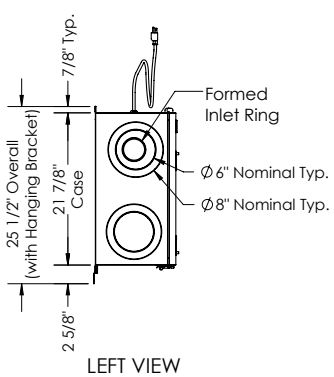
TOP VIEW

ABBREVIATIONS
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside

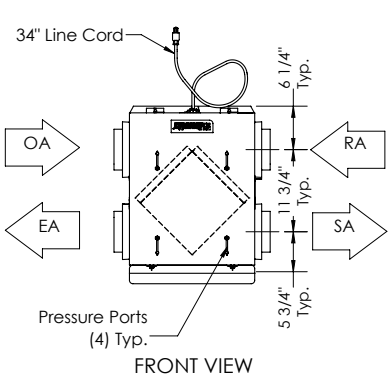
INSTALLATION ORIENTATION
Unit may be installed in any orientation.

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

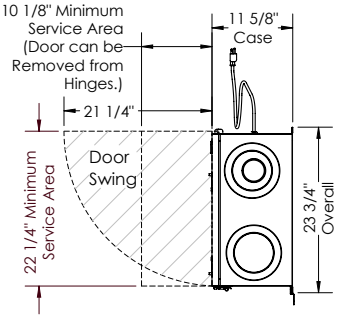
2.SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



FRONT VIEW



RIGHT VIEW