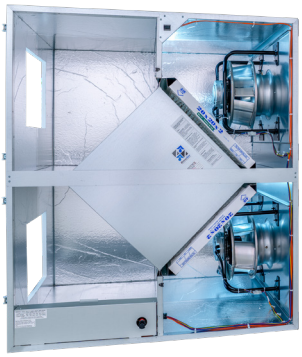
HE 20IN

ENERGY RECOVERY VENTILATOR
EC MOTOR

Intertek

NEW! INDOOR UNIT



Energy recovery core is AHRI Certified®

AHRI CERTIFIED®
www.ahridirectory.org
Air-to-Air ERV
AHRI Standard 1060
Energy Recovery COMPONENT is certified. Actual performance in packaged equipment may vary.

SPECIFICATIONS

Ventilation Type: Static plate, heat and humidity transfer

Airflow Range: 500–2,200 CFM

AHRI 1060 Certified Core: Two L125-G5

Standard Features:
Non-fused disconnect
24VAC transformer/relay package
Cross-core differential pressure ports
Independent blower control

Filters: Total qty. 4, MERV 8: 20" x 20" x 2"

Unit Weight: 371–581 lbs.

Max. Shipping Dimensions & Weight (on pallet):
H: 70" L x 47" W x 61 1/2" H
671 lbs.

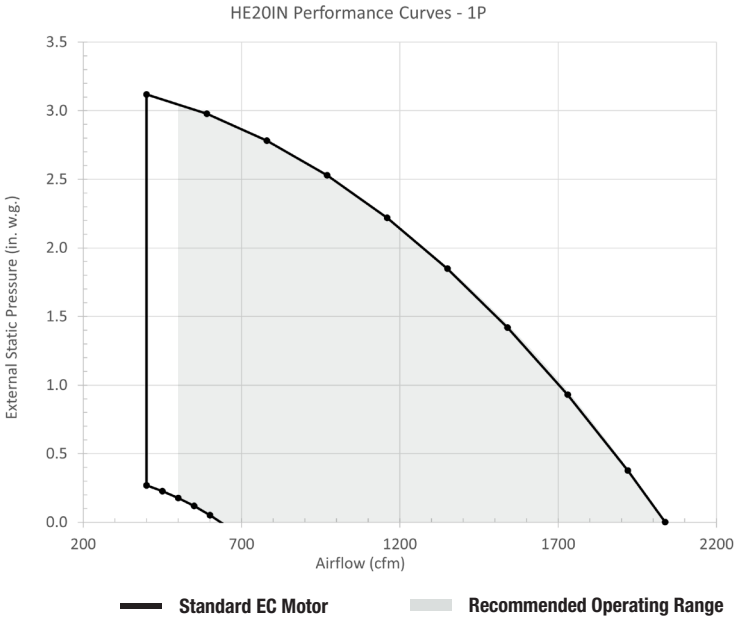
Motor(s): Qty. 2, 770W ea., Direct drive EC motorized impeller packages (208-230V/1Ph/60HZ)

Options:
Qty. 2, Direct drive EC motorized impeller packages
2150W 208-230V/3Ph/60HZ (Advanced),
2100W 460V/3Ph/60HZ (Advanced)
Fused disconnect
Integrated programmable controls: enhanced, premium
Class 1 low leakage motorized isolation dampers:
SA, EA or both airstreams
Factory mounted filter alarms: both airstreams
Double wall construction
Exterior paint: white, custom colors

Accessories:
Filters: MERV 13, 2" (shipped loose)
Automatic balancing damper: 4", 5", 6"
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)
BACnet fan control: wall mount (BACNETFC-W)
Indoor electric duct heater: EK series (1–175 kW)
Indirect gas-fired duct furnace: GH series (50–400 MBH);
installed downstream of any fans
Hanging Spring Vibration Isolation Kit
Duct flange kit: square 16" x 22", 2 flanges

1-PHASE EC MOTOR OPERATING RANGE AND FAN PERFORMANCE

Airflow (CFM)	Standard EC	
	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
HE20IN MOTOR 1P/208-230V Option		
400	3.12	1026
590	2.98	1133
780	2.78	1234
970	2.53	1322
1160	2.22	1391
1350	1.85	1434
1540	1.42	1446
1730	0.93	1420
1920	0.38	1349
2038	0.00	1280



HE 20IN

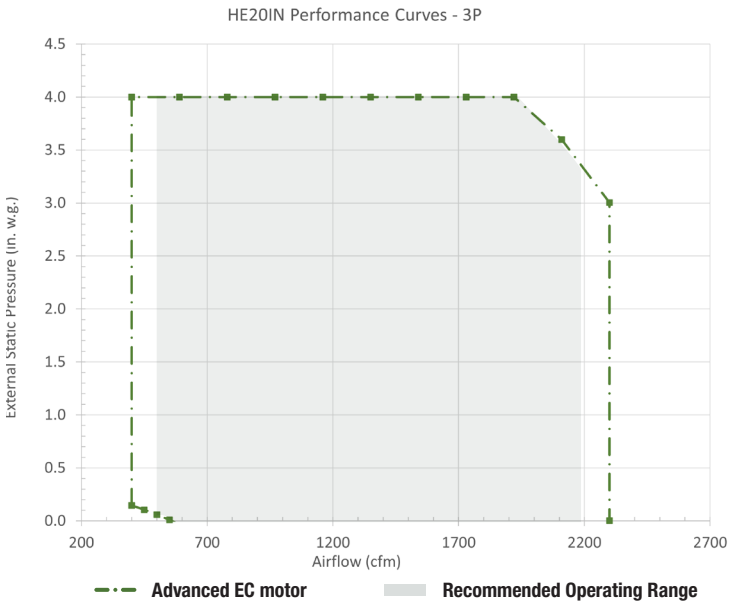
ENERGY RECOVERY VENTILATOR
EC MOTOR

3-PHASE EC MOTOR OPERATING RANGE AND FAN PERFORMANCE

HE20IN MOTOR 3P/208-230V Option		
Airflow (CFM)	Advanced EC	
	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
400	4.00	1526
590	4.00	1696
780	4.00	1902
970	4.00	2143
1160	4.00	2419
1350	4.00	2729
1540	4.00	3079
1730	4.00	3474
1920	4.00	3929
2110	3.60	4102
2300	3.00	4101

HE20IN MOTOR 3P/460V Option		
Airflow (CFM)	Advanced EC	
	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
400	4.00	1454
590	4.00	1615
780	4.00	1812
970	4.00	2041
1160	4.00	2304
1350	4.00	2599
1540	4.00	2932
1730	4.00	3309
1920	4.00	3742
2110	3.60	3907
2300	3.00	3906

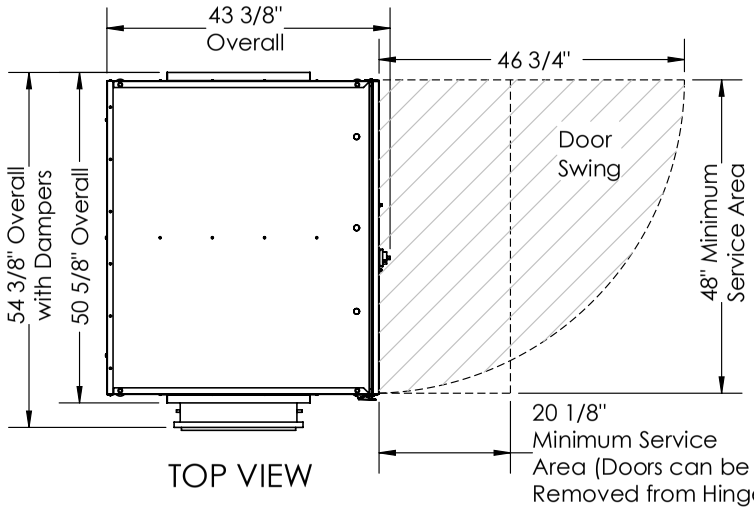
Note: Watts is for the entire unit. Airflow performance include effect of clean, standard filter supplied with unit.



ELECTRICAL DATA

Option	Watts	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
[EE] Standard	770	208–230	60	Single	3.4	7.7	15
[AA] Advanced	2150	208–230	60	Three	5.7	12.8	15
	2100	460	60	Three	2.9	6.5	15

HE20INH ENERGY RECOVERY VENTILATOR

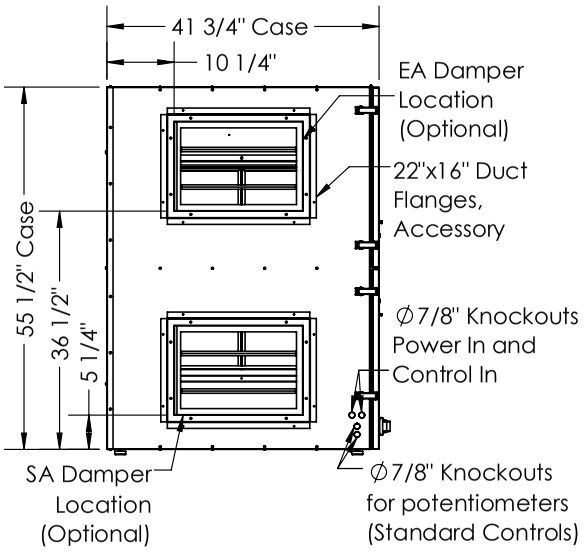


TOP VIEW

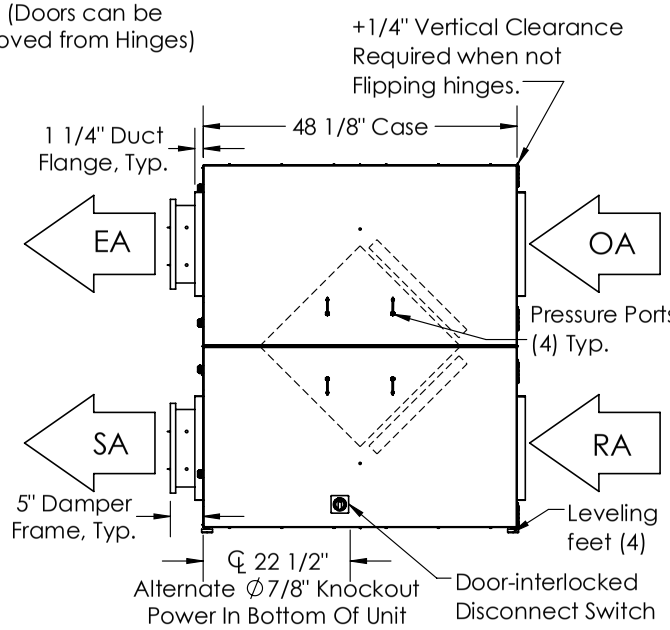
ABBREVIATIONS
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
SA: Supply Air to Inside

INSTALLATION ORIENTATION
Unit may be installed in any orientation.

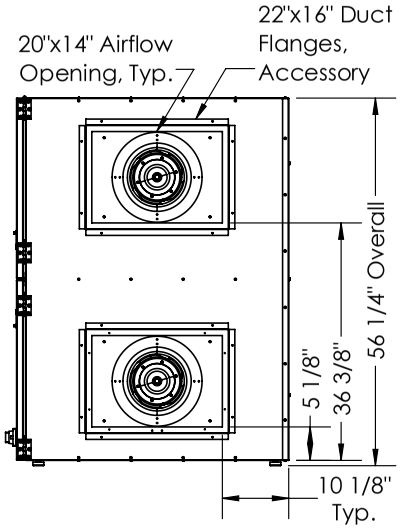
NOTE
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



LEFT VIEW



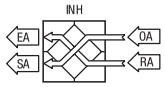
FRONT VIEW



RIGHT VIEW

AIRFLOW ORIENTATION

Available as shown in dimension drawing.

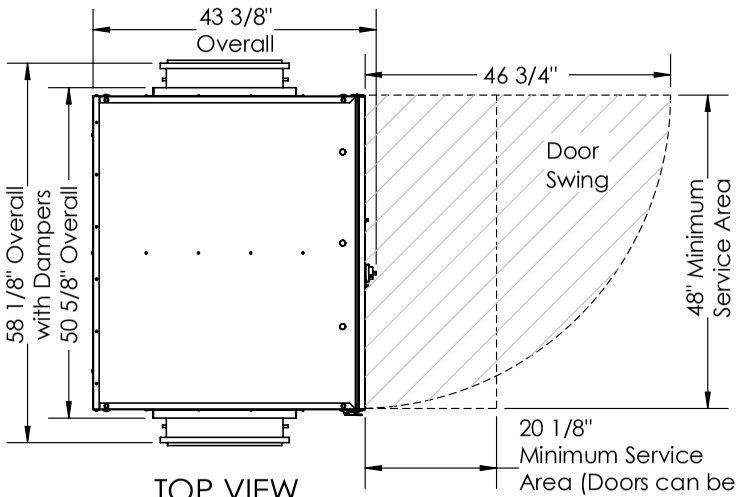


UNIT MOUNTING & APPLICATION

Must be mounted as shown. RA/EA airstream can be switched with OA/FA airstream unless certain options are selected.

RenewAire Energy Recovery Ventilation

HE20INV ENERGY RECOVERY VENTILATOR



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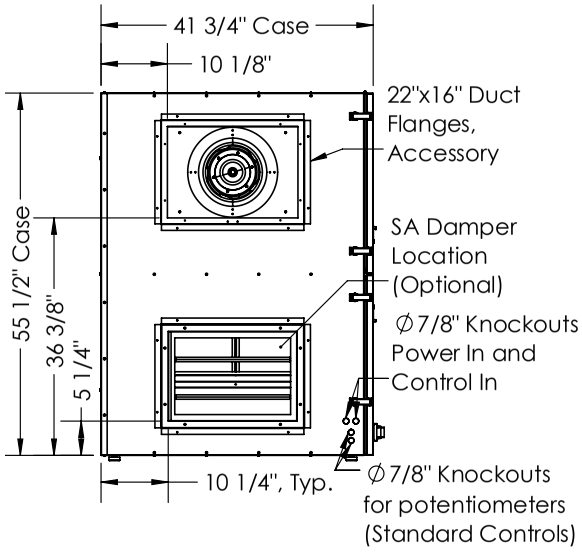

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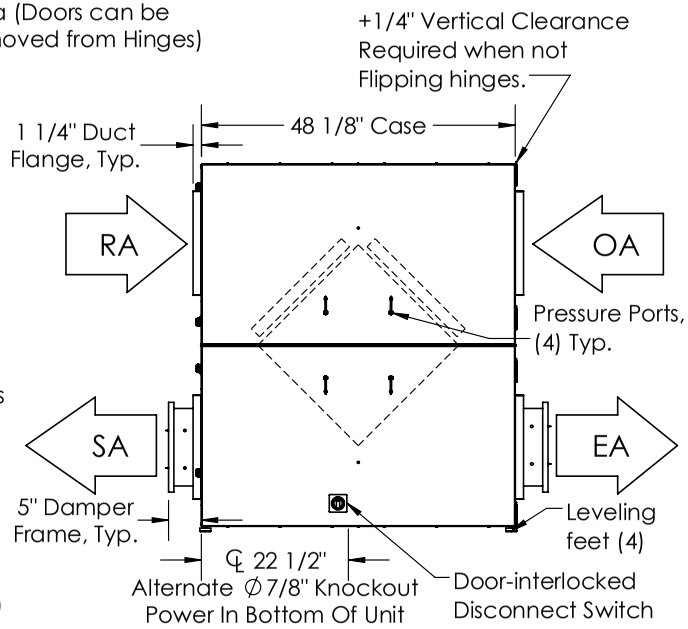

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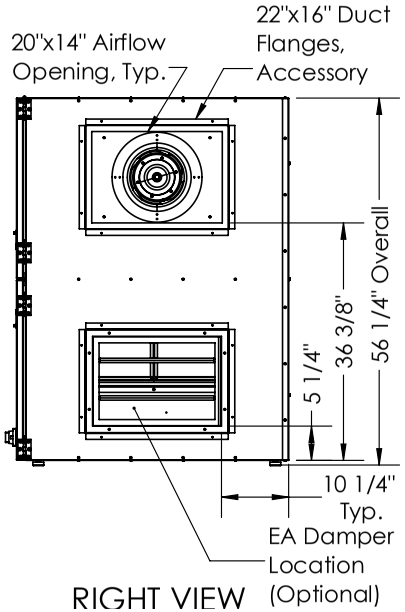

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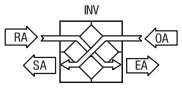

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RenewAire
Energy Recovery Ventilation