



INDOOR UNIT



Energy Recovery Core is AHRI Certified®



Energy Recovery Ventilator

EC Motor with Bypass Economizer



SPECIFICATIONS

Ventilation Type:

Static plate, heat and humidity transfer

Typical Airflow Range: 250-1,100 CFM

AHRI 1060 Certified Core: One L125-G5

Standard Features:

Non-fused disconnect
24 VAC transformer/relay package
Cross-core differential pressure ports

Filters:

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

Unit Weight:

204-275 lbs., varies by option(s)

Shipping Dimensions & Weight (on pallet):

42" L x 30" W x 71" H

325 lbs.

Accessories box shipped loose on top of unit.

Motor(s):

Qty. 2, 0.5 HP ea., Direct drive EC blower/
motor packages

Options:

Fused disconnect
Integrated programmable controls - enhanced, premium
Bypass economizer damper (see bypass DIM drawing) - dry-bulb temperature controls (standard), enthalpy controls (option)
Low-leakage motorized isolation dampers - OA, RA or both airstreams
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 - 12"
Automatic balancing damper - 4", 5", 6"
Motorized isolation damper - both airstreams
Hooded wall vent 12" - galvanized, paintable galvanneal
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)
Electric duct heater - RH series (1-11.5 kW); EK series (1-175 kW); designed for indoor ductwork installation only
Indirect gas-fired duct furnace - GH series (50-400 MBH), installed downstream of any fans

EC MOTOR OPTION OPERATING RANGE

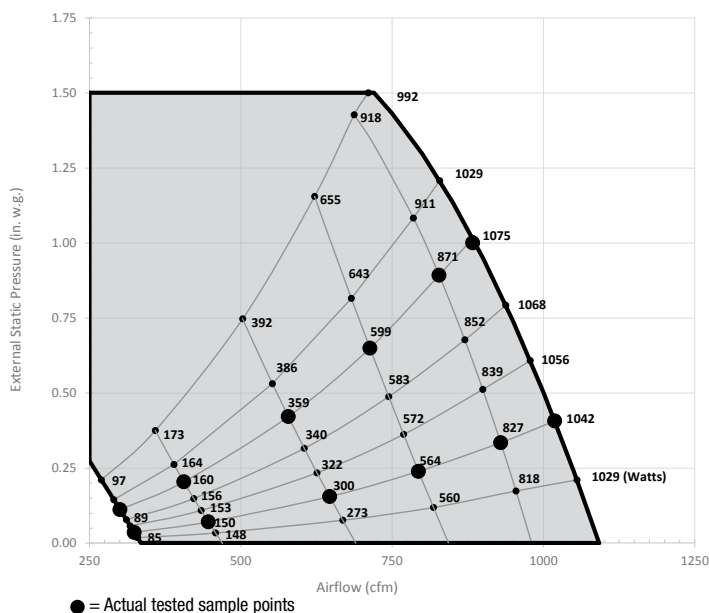
HE1XINV EC MOTOR		
Sample Points Depicted in Larger Dots		
Airflow (CFM)	External Static Pressure (Inches Water Column)	Unit Power Consumption (Watts)
324	0.04	86
446	0.07	150
647	0.15	300
794	0.24	564
929	0.33	827
1019	0.41	1042
300	0.11	91
406	0.20	160
579	0.42	359
713	0.65	599
828	0.89	871
883	1.00	1075

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 per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
0.5	120	60	Single	8.1	18.2	25
0.5	208-230	60	Single	4.8	10.8	15



ABBREVIATIONS

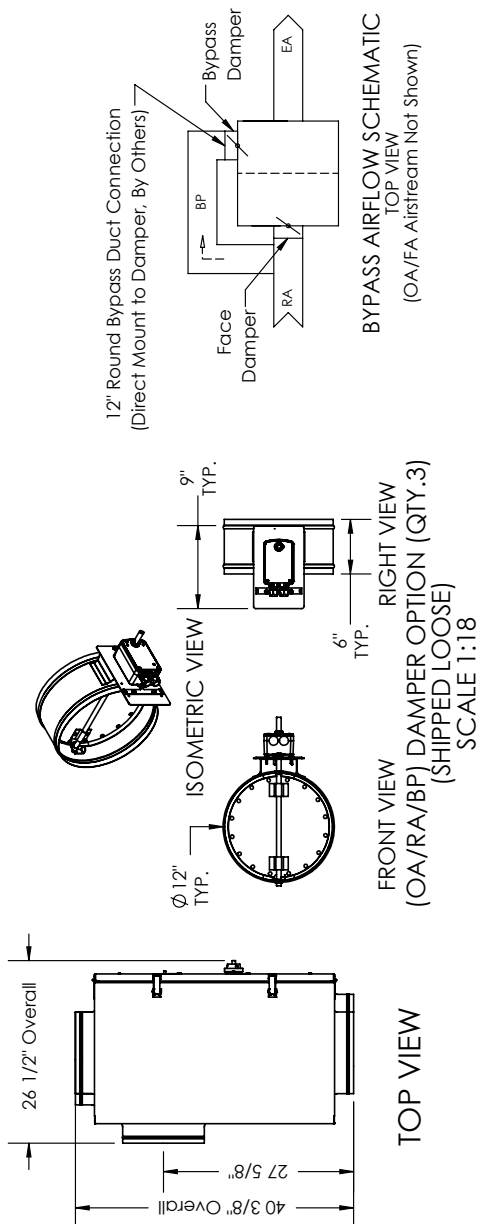
EA: Exhaust Air to Outside
OA: Outside Air Intake
RA: Room Air to be Exhausted
FA: Fresh Air to Inside
BP: Bypass Air Intake

INSTALLATION ORIENTATION

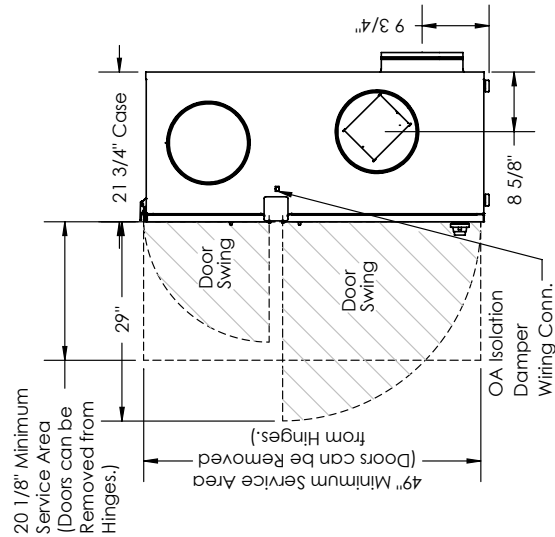
Unit may be installed in any orientation.

NOTE

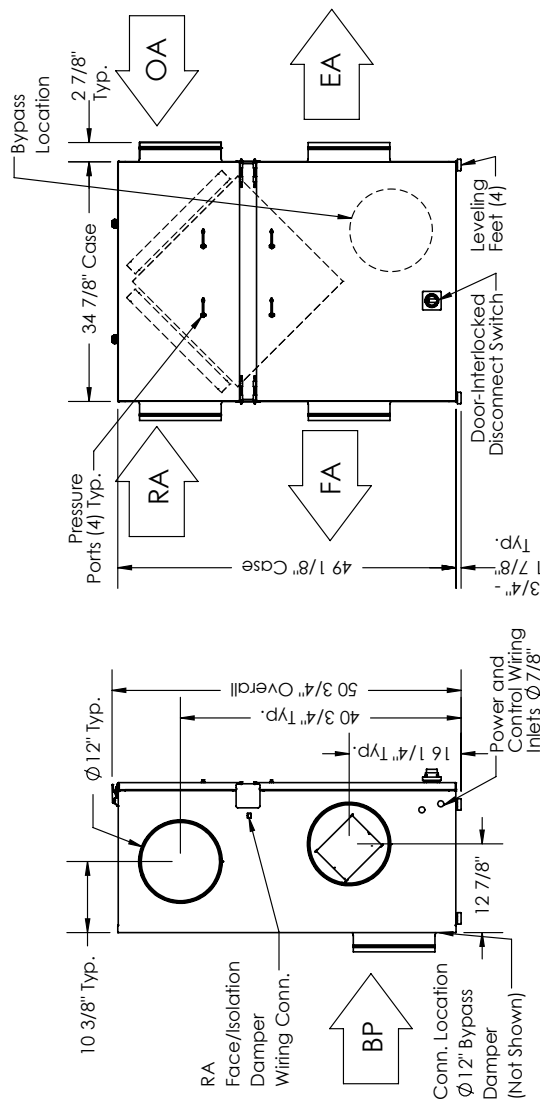
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
3. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
4. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.
5. DAMPERS SHIPPED LOOSE, FIELD INSTALLATION REQUIRED



BYPASS AIRFLOW SCHEMATIC
TOP VIEW
(OA/FA Airstream Not Shown)



RIGHT VIEW



FRONT VIEW

LEFT VIEW

AIRFLOW CONFIGURATION
Available as shown in dimension drawing.

UNIT MOUNTING & APPLICATION
Can be mounted in any orientation. Airstreams can not be switched.

