

HE 8XIN

ENERGY RECOVERY VENTILATOR

INDOOR UNIT



Energy recovery core is AHRI Certified®



SPECIFICATIONS

Ventilation Type:
Static plate, heat and humidity transfer

Airflow Range: 2,000–8,800 CFM

AHRI 1060 Certified Core: Eight L125-G5

Standard Features:
TEFC Premium efficiency motors
Motor starters
Non-fused disconnect
24VAC transformer/relay package
Cross-core differential pressure ports

Filters:
Total qty. 16, MERV 8: 20" x 20" x 2"

Unit Weight:
2,261–3,278 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
116" L x 90" W x 90" H
3,618 lbs.

Motor(s):
Qty. 2, Belt drive blower/standard motor packages with adjustable sheaves

Options:
Onboard variable frequency drives (VFDs): both airstreams
Shaft grounding ring on motors with VFDs
Fused disconnect
Integrated programmable controls: enhanced, premium
Bypass economizer damper (see DIM drawing): dry-bulb temperature controls (standard), enthalpy controls (option)
Class 1 low leakage motorized isolation dampers: OA, 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"
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)
Indoor electric duct heater: EK series (1–175 kW)
Indirect gas-fired duct furnace: GH series (50–400 MBH); Installed downstream of any fans

AIRFLOW PERFORMANCE

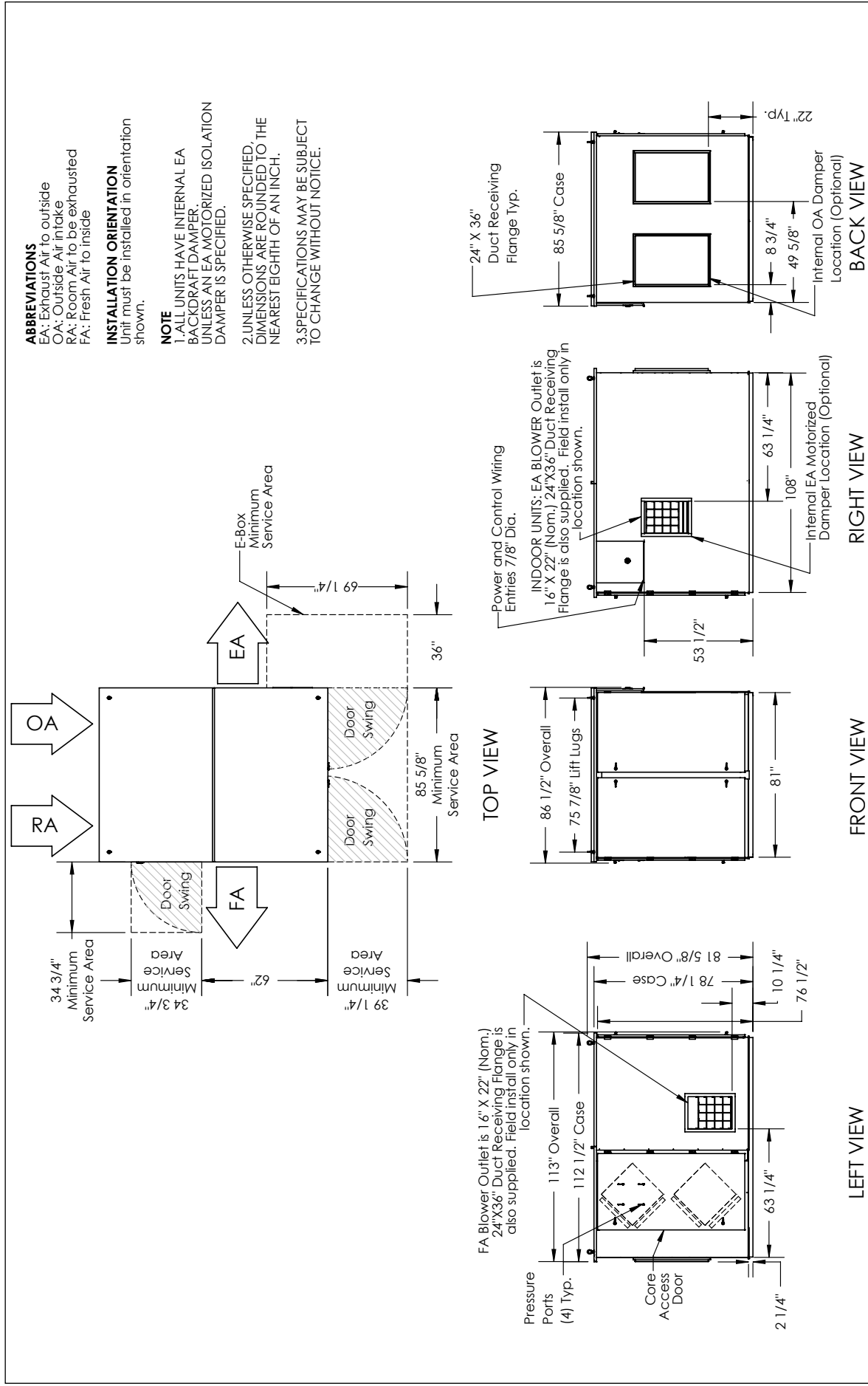
Blower RPM	External Static Pressure (Inches Water Column)																			
	0.25		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50	
	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP	SCFM	BHP
1000	3757	1.6	3404	1.5	2912	1.5														
1100	4278	1.8	4018	1.8	3713	1.7	3334	1.6	2812	1.5										
1200	4714	2.2	4480	2.2	4216	2.1	3911	2.1	3544	2.0	3073	1.9	2389	1.7						
1300	5162	2.8	4934	2.8	4681	2.7	4395	2.7	4062	2.6	3664	2.5	3162	2.4	2487	2.2				
1400	5668	3.5	5443	3.5	5192	3.4	4910	3.4	4585	3.3	4199	3.2	3727	3.1	3130	2.9	2396	2.7		
1500	6239	4.3	6022	4.2	5781	4.2	5507	4.1	5190	4.1	4811	4.0	4340	3.9	3733	3.7	2975	3.5	2223	3.3
1600	6840	5.1	6643	5.0	6423	5.0	6176	4.9	5889	4.9	5545	4.8	5111	4.7	4519	4.6	3667	4.4	2746	4.1
1700	7405	6.0	7232	5.9	7042	5.9	6829	5.8	6587	5.7	6304	5.7	5957	5.6	5496	5.4	4782	5.3	3522	5.0
1800	7897	7.0	7745	7.0	7579	6.9	7397	6.8	7195	6.7	6964	6.6	6692	6.5	6359	6.4	5908	6.2	5148	6.0
1900	8327	8.1	8188	8.0	8038	7.9	7875	7.8	7696	7.7	7496	7.6	7269	7.5	7004	7.4	6677	7.2	6238	7.0
2000	8743	9.0	8607	9.0	8461	8.9	8304	8.8	8134	8.7	7946	8.6	7737	8.5	7498	8.3	7216	8.2	6868	8.0
2100							8787	9.5	8605	9.5	8406	9.4	8186	9.3	7937	9.2	7647	9.1	7303	8.9
2200															8549	9.8	8157	9.8	7689	9.6

Operation in this zone outside of core airflow limits.
Note: Brake horsepower (BHP) is for one blower motor package only. Airflow performance includes effect of clean, standard filter supplied with unit. For full operating range, see *CORES*.

ELECTRICAL DATA

Standard Electrical Specifications							Optional Factory Installed VFD Electrical Specifications		
HP	Volts	Hz	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
5.0	208–230	60	Three	14.5–13.4	32.6	45	14.5–13.4	35.9	45
	460	60	Three	6.7	15.1	20	6.7	16.6	20
	575	60	Three	5.3	11.9	15	5.3	13.1	15
7.5	208–230	60	Three	21.0–19.0	47.3	60	21.0–19.0	52.0	60
	460	60	Three	9.5	21.4	25	9.5	23.5	25
	575	60	Three	7.6	17.1	20	7.6	18.8	20
10.0	208–230	60	Three	27.0–25.0	60.8	80	27.0–25.0	66.8	80
	460	60	Three	12.5	28.1	35	12.5	30.9	35
	575	60	Three	9.8	22.0	30	9.8	24.2	30

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UNIT MOUNTING & APPLICATION



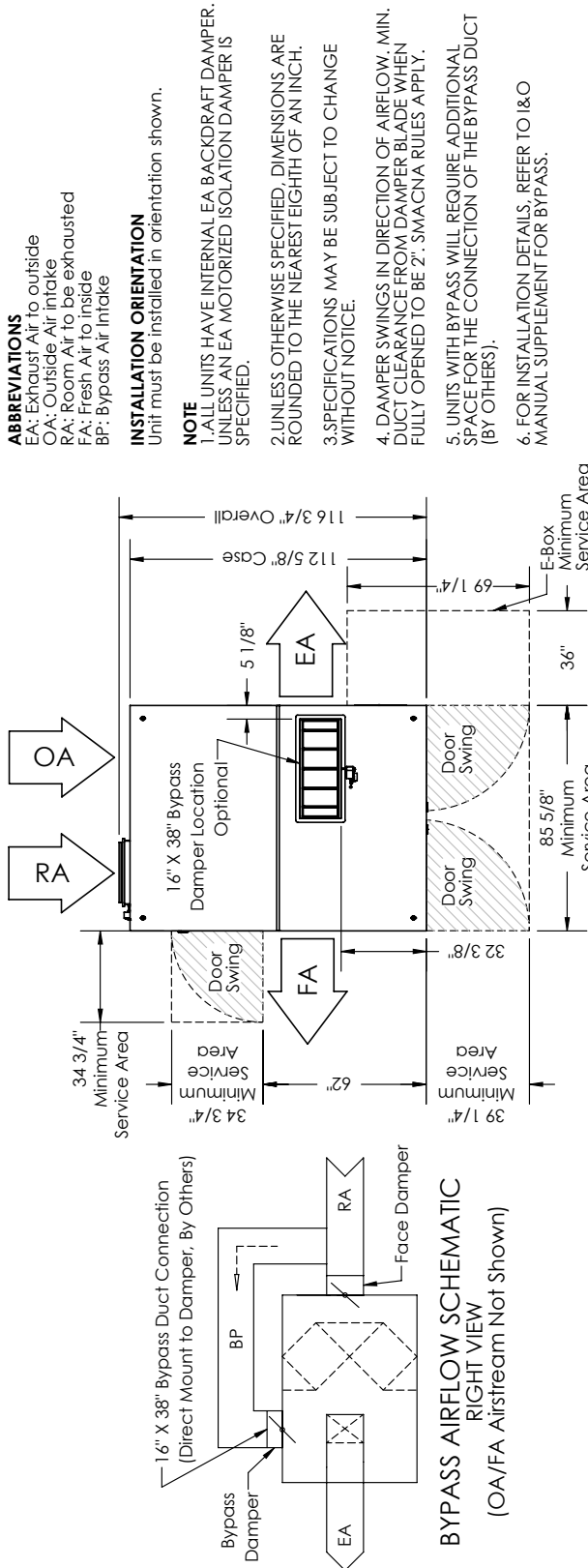
Must be mounted as shown. Airstreams cannot be switched.

AIRFLOW ORIENTATION

Available as shown in dimension drawing.



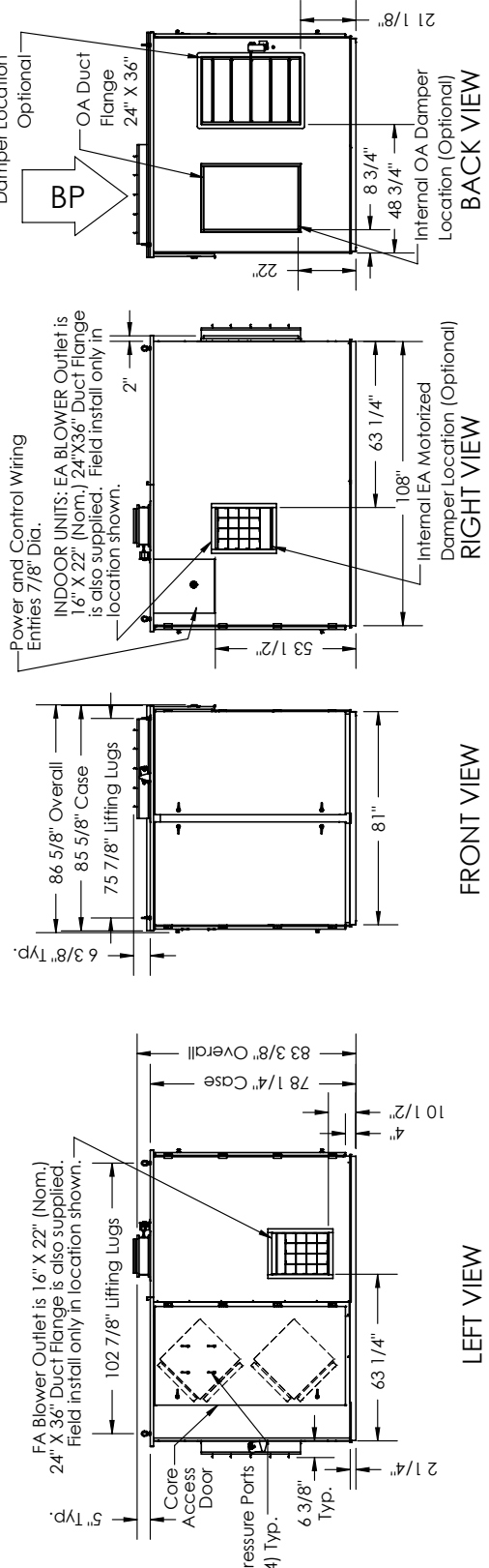
HE8XIN ENERGY RECOVERY VENTILATOR WITH BYPASS ECONOMIZER



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 must be installed in orientation shown.

NOTE
 1. ALL UNITS HAVE INTERNAL EA BACKDRAFT DAMPER, UNLESS AN EA MOTORIZED ISOLATION DAMPER IS SPECIFIED.
 2. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.
 3. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.
 4. DAMPER SWINGS IN DIRECTION OF AIRFLOW. MIN. DUCT CLEARANCE FROM DAMPER BLADE WHEN FULLY OPENED TO BE 2". SMACNA RULES APPLY.
 5. UNITS WITH BYPASS WILL REQUIRE ADDITIONAL SPACE FOR THE CONNECTION OF THE BYPASS DUCT (BY OTHERS).
 6. FOR INSTALLATION DETAILS, REFER TO I&O MANUAL SUPPLEMENT FOR BYPASS.



FRONT VIEW
 86 5/8" Overall
 85 5/8" Case
 75 7/8" Lifting Lugs
 8 1/4"

TOP VIEW
 116 3/4" Overall
 112 5/8" Case
 69 1/4"
 5 1/8"
 36"
 85 5/8" Minimum Service Area
 32 3/8"
 39 1/4" Minimum Service Area
 62"
 34 3/4" Minimum Service Area
 34 3/4" Minimum Service Area
 16" X 38" Bypass Damper Location Optional
 EA
 OA
 RA
 FA
 Door Swing
 Door Swing
 E-Box Minimum Service Area

LEFT VIEW
 83 3/8" Overall
 78 1/4" Case
 10 1/2"
 4"
 63 1/4"
 2 1/4"
 6 3/8" Typ.
 102 7/8" Lifting Lugs
 Core Access Door
 Pressure Ports (4) Typ.

RIGHT VIEW
 63 1/4"
 108"
 Internal EA Motorized Damper Location (Optional)
 53 1/2"
 2"
 26" X 38" RA Face Damper Location
 Optional
 OA Duct Flange 24" X 36"
 8 3/4"
 48 3/4"
 21 1/8"
 Internal OA Damper Location (Optional)

BACK VIEW
 26" X 38" RA Face Damper Location
 Optional
 OA Duct Flange 24" X 36"
 8 3/4"
 48 3/4"
 21 1/8"
 Internal OA Damper Location (Optional)

AIRFLOW ORIENTATION
 Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION
 Must be mounted as shown. Airstreams cannot be switched.

