


NEW! INDOOR UNIT


ENERGY RECOVERY VENTILATOR

SPECIFICATIONS



Energy recovery core is AHRI Certified®


Ventilation Type:

Static plate, heat and humidity transfer

Airflow Range: 1,750–7,700 CFM

AHRI 1060 Certified Core: Seven L125-G5

Standard Features:

 TEFC premium efficiency motors
 Motor starters
 Non-fused disconnect
 24VAC transformer/relay package
 Cross-core differential pressure ports
 Neoprene vibration isolators

Filters:

Total qty. 14, MERV 8: 20" x 20" x 2"

Unit Weight:

2,248–3,265 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):

 116" L x 90" W x 90" H
 3,605 lbs.

Motor(s):

 Qty. 2, Belt drive blower/standard motor packages
 with adjustable sheaves

Options:

 Ultra premium efficiency (IE5+) motors with variable frequency drive (VFDs): both airstreams
 Onboard 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
 Spring vibration isolators
 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)
 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

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
900	2988	0.9	2528	0.9	1964	0.8														
1000	3456	1.2	3053	1.2	2597	1.1	2045	1.0												
1100	3926	1.5	3558	1.5	3155	1.4	2697	1.3	2149	1.2										
1200	4422	1.9	4077	1.8	3704	1.8	3297	1.7	2837	1.7	2291	1.6								
1300	4944	2.3	4621	2.3	4275	2.2	3902	2.2	3492	2.1	3029	2.0	2486	1.9	1779	1.8				
1400	5482	2.8	5184	2.8	4868	2.7	4526	2.7	4155	2.6	3746	2.6	3285	2.5	2745	2.4	2065	2.2		
1500	6018	3.3	5747	3.3	5459	3.3	5153	3.3	4821	3.2	4460	3.2	4061	3.1	3610	3.0	3083	2.9	2436	2.7
1600	6526	4.0	6285	3.9	6030	3.9	5758	3.9	5468	3.9	5153	3.8	4810	3.8	4429	3.7	3999	3.6	3501	3.5
1700	6998	4.7	6785	4.7	6560	4.6	6322	4.6	6069	4.6	5796	4.5	5504	4.5	5184	4.4	4831	4.4	4434	4.3
1800	7441	5.5	7251	5.5	7051	5.4	6841	5.4	6619	5.4	6383	5.3	6131	5.3	5861	5.3	5567	5.2	5245	5.2
1900					7521	6.3	7331	6.3	7132	6.3	6923	6.2	6702	6.2	6467	6.2	6216	6.1	5946	6.1
2000									7641	7.3	7449	7.2	7247	7.2	7036	7.2	6812	7.1	6576	7.1
2100															7619	8.3	7408	8.3	7189	8.2

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*.



ENERGY RECOVERY VENTILATOR



ELECTRICAL DATA

Electrical Specifications				Motor Starters (Standard)			Optional IE3 Efficiency Motor with VFDs			Optional IE5+ Efficiency Motor with VFDs		
HP	Volts	HZ	Phase	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device	FLA per motor	Min. Cir. Amps	Max. Overcurrent Protection Device
3.0	208-230	60	Single	14.6-14	32.9	45	9-8.4	35.1	50	7.3-7.3	28.4	40
3.0	208-230	60	Three	9-8.4	20.3	25	9-8.4	20.3	25	7.3-7.3	16.4	20
	460	60	Three	4.2	9.5	15	4.2	9.5	15	3.7	8.3	15
	575	60	Three	3.3	7.4	15	3.3	7.4	15			
5.0	208-230	60	Three	13.9-13.4	31.3	45	13.9-13.4	31.3	45	10.5-10.5	23.6	30
	460	60	Three	6.7	15.1	20	6.7	15.1	20	5.3	11.9	15
	575	60	Three	5.3	11.9	15	5.3	11.9	15			
7.5	208-230	60	Three	20-19	45.0	60	20-19	45.0	60	17.4-17.4	39.2	50
	460	60	Three	9.5	21.4	30	9.5	21.4	30	8.7	19.6	25
	575	60	Three	7.6	17.1	20	7.6	17.1	20			
10.0	208-230	60	Three	25.4-24	57.2	80	25.4-24	57.2	80	22.0-22.0	49.5	70
	460	60	Three	12	27.0	35	12	27.0	35	11	24.8	35
	575	60	Three	9.6	21.6	30	9.6	21.6	30			

HE7XIN ENERGY RECOVERY VENTILATOR

ABBREVIATIONS

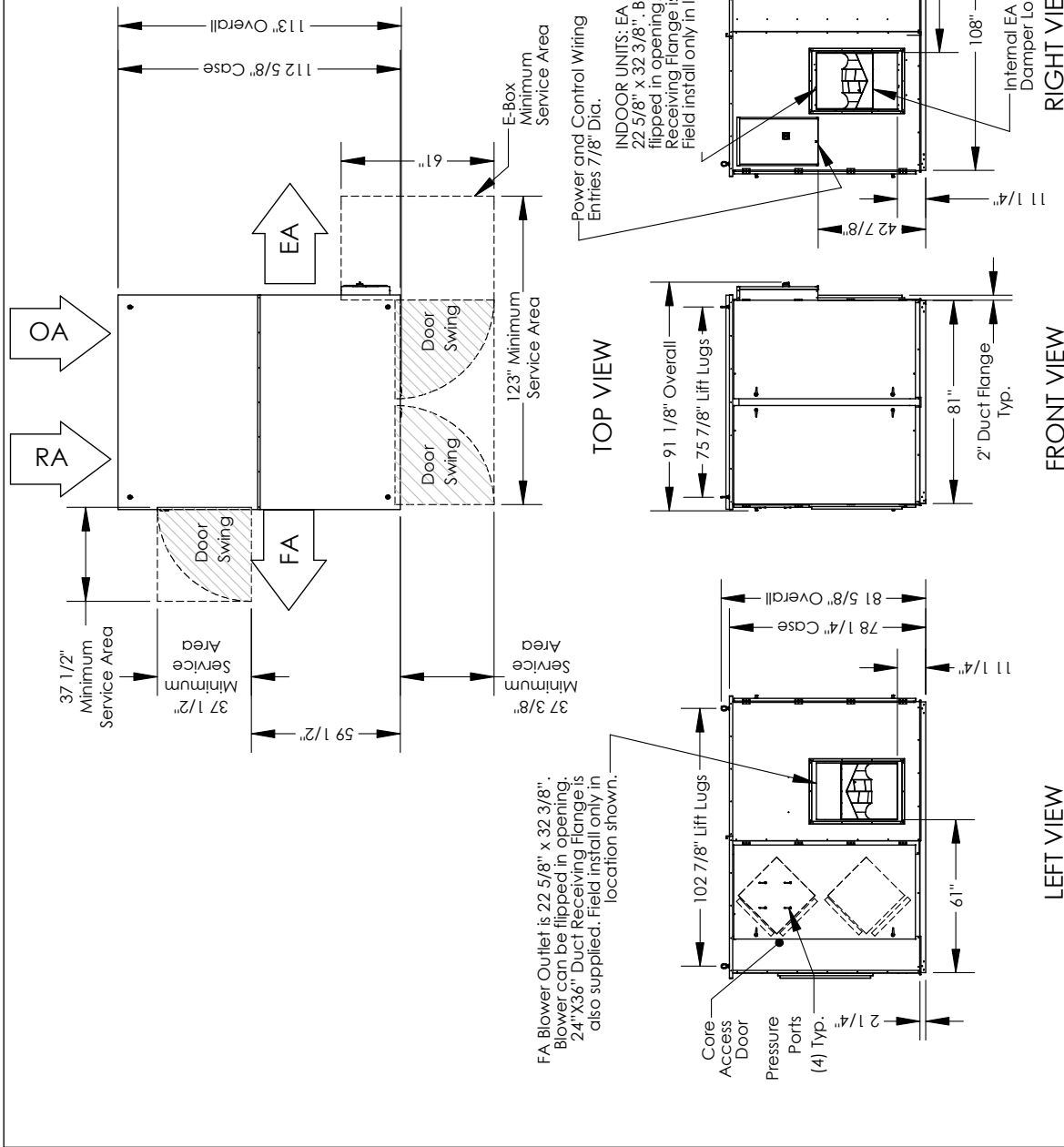
EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
FA: Fresh Air To Inside

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

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

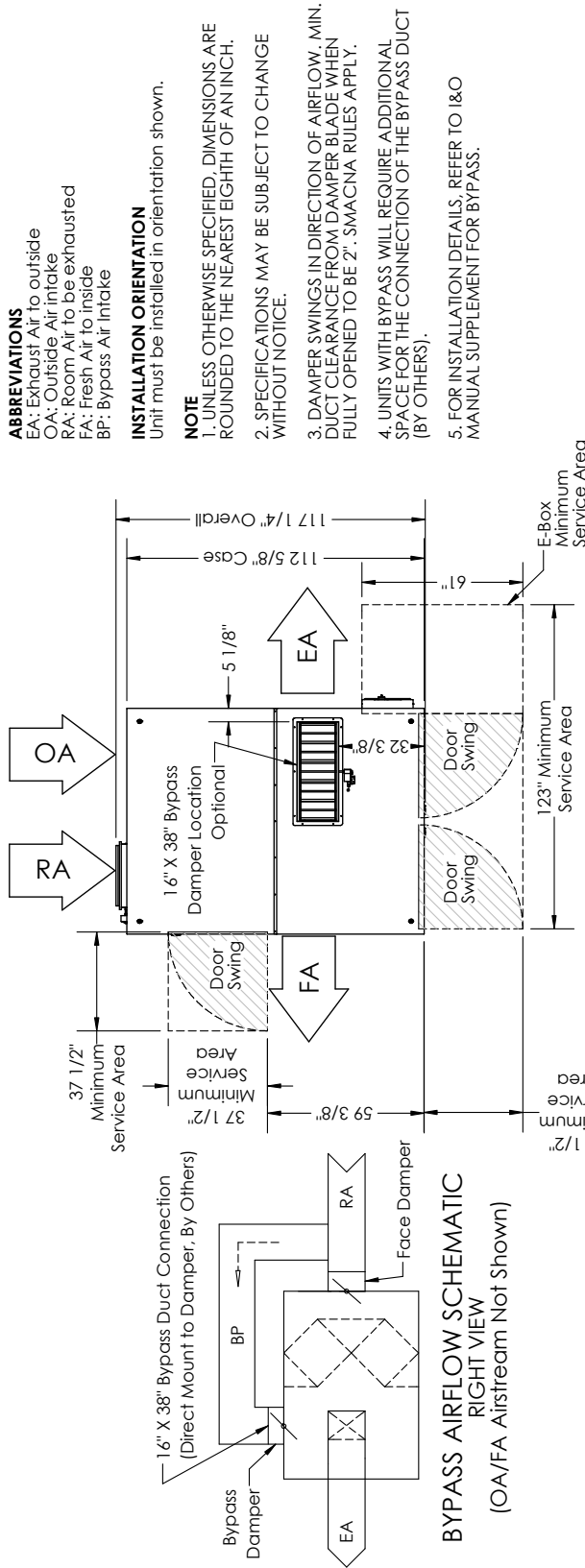
Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams cannot be switched.

HE7XIN ENERGY RECOVERY VENTILATOR WITH BYPASS ECONOMIZER



AIRFLOW ORIENTATION

Available as shown in dimension drawing.



UNIT MOUNTING & APPLICATION

Must be mounted as shown. Airstreams cannot be switched.