



ENERGY RECOVERY VENTILATOR



ROOFTOP UNIT



HE7XRT shown

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
Neoprene vibration isolators

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

Unit Weight:
2,399–3,416 lbs., varies by option(s)

Max. Shipping Dimensions & Weight (on pallet):
Pallet 1 (unit): 116" L x 90" W x 90" H
Pallet 2 (hoods): 60" L x 42" W x 90" H
3,756 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
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"
Roof curb: standard 14"
Curb wind clip
Engineered combo curb for Trane or Carrier RTUs
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	
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.



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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
	208-230	60	Three	9-8.4	20.3	25	9-8.4	20.3	25	7.3-7.3	16.4	20
3.0	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			

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