

OMEGA Energy Recovery Ventilator

SUBMITTAL DATA

220-240V/1/50Hz

Job: _____
 Location: _____
 Schedule No.: _____
 System Designation: _____

Engineer: _____
 Architect: _____
 Date: _____
 For: Reference Approval Review Construction

FEATURES

- Fresh Air Supply Ventilation
- Low Noise Design
- Emergy & Cost Savings
- Advanced Heat Exchange Core
- Simultaneous Exhaust & Supply Air
- Free Cooling via Outside Fresh Air



1. Specifications



ENERGY RECOVERY VENTILATORS 50 Hz

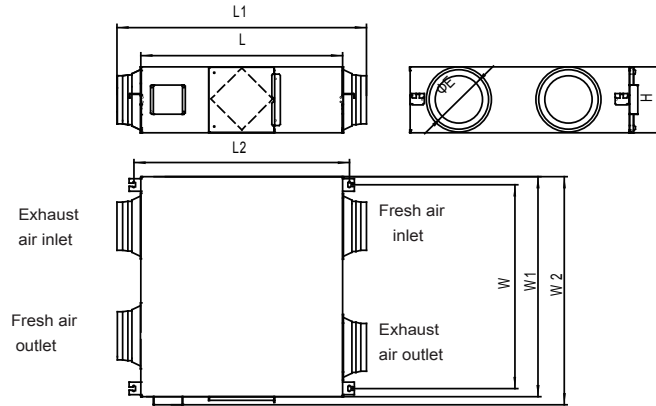
MODEL NO.	ERVD	010A	015A	020A	030A	040A	050A	060A	080A
		3N-FCN020	3N-FCN030	3N-FCN040	3N-FCN050	3N-FCN060	3N-FCN080	3N-FCN100	3N-FCN130
Air Flow Volume	CFM (m ³ /hr) (Hi)	118 (200)	177 (300)	235 (400)	295 (500)	353 (600)	470 (800)	589 (1000)	764 (1300)
External Static Pressure	in. W.G (Pa)	0.30 (75)	0.30 (75)	0.32 (80)	0.32 (80)	0.36 (90)	0.40 (100)	0.52 (130)	0.36 (90)
Temp. Recovery Efficiency (Cooling) (%) (Hi)		77	78	78	79	79	79	78	78
Enthalpy Recovery Efficiency (%) (Hi)	Cooling	64	65	65	66	65	65	67	67
	Heating	69	70	70	71	70	70	71	70
Electrical	Voltage-Phase	220~240-1							
	Frequency	50Hz							
	FLA	0.30	0.55	0.91	1.00	1.1	1.86	2.32	4.15
	Input (w)	65	120	200	220	242	410	510	913
Air Filter		Cleanable Cartridge Type							
Controller		Standard Wired Controller							
Fan	Type	Centrifugal Fan							
	Speed	3 - Direct Drive							
	Qty	2	2	2	2	2	2	2	2
	Noise Level Hi (db) (2)	37	39	40	41	42	43	45	50
Dimensions inches (mm)	Height	10 3/8 (264)	10 5/8 (270)	10 5/8 (270)	10 5/8 (270)	10 5/8 (270)	15 1/4 (388)	15 1/4 (388)	15 1/4 (388)
	Width	25 3/4 (654)	28 3/8 (722)	36 3/8 (927)	40 3/8 (1027)	40 3/8 (1027)	39 5/8 (1007)	39 5/8 (1007)	49 1/2 (1257)
	Length	33 1/3 (848)	36 3/8 (926)	36 3/8 (926)	40 (1018)	40 (1018)	50 1/8 (1274)	50 1/8 (1274)	50 5/8 (1287)
Net Weight Lbs (kgs)		55 (25)	59 (27)	66 (30)	90 (41)	92 (42)	150 (68)	180 (82)	180 (82)

MODEL NO.	ERVB	090A	120A	150A	180A	240A	300A	360A	420A	480A	540A	600A	
		3N-FCN150	3N-FCN200	3N-FCN250	7N-FNN300	7N-FNN400	7N-FNN500	7N-FNN600	7N-FNN700	7N-FNN800	7N-FNN900	7N-FNN1000	
Air Flow Volume	CFM (m ³ /hr) (Hi)	881 (1500)	1175 (2000)	1471 (2500)	1766 (3000)	2355 (4000)	2943 (5000)	3532 (6000)	4120 (7000)	4709 (8000)	5297 (9000)	5886 (10000)	
External Static Pressure	in. W.G (Pa)	0.40 (100)	0.52 (130)	0.72 (180)	0.80 (200)	0.88 (220)	0.96 (240)	1.28 (320)	1.24 (310)	1.28 (320)	1.36 (340)	1.40 (350)	
Temp. Recovery Efficiency (Cooling) (%) (Hi)		78	79	78	79	78	79	78	78	84	80	82	
Enthalpy Recovery Efficiency (%) (Hi)	Cooling	67	68	67	67	67	66	67	67	67	67	67	
	Heating	72	70	71	70	71	70	72	72	76	74	78	
Electrical	Voltage-Phase (3)*	220~240-1				380~415-3							
	Frequency	50Hz				50Hz							
	FLA	4.67	5.52	9.38	3.21	3.67	4.75	5.79	5.86	6.28	7.79	9.75	
	Input (w)	1028	1215	2063	2108	2415	3122	3610	3850	4130	5120	6410	
Air Filter		Cleanable Cartridge Type				Cleanable Cartridge Type							
Controller		Standard Wired Controller				Requires On/Off Wall Switch (Not Supplied)							
Fan	Type	Centrifugal Fan											
	Speed	3 - Direct Drive				1							
	Qty	2	2	2	2	2	2	2	2	2	2	2	
	Noise Level Hi (db) (2)	52	60	62	64	66	68	66	67	68	70	78	
Dimensions inches (mm)	Height	15 1/4 (388)	21 1/4 (540)	21 1/4 (540)	23 5/8 (600)	41 1/3 (1050)	41 1/3 (1050)	41 1/3 (1050)	41 1/3 (1050)	46 (1168)	46 (1168)	47 1/4 (1200)	
	Width	49 1/2 (1257)	49 7/8 (1265)	57 7/8 (1470)	58 1/4 (1480)	57 (1450)	57 (1450)	70 (1780)	70 (1780)	70 (1780)	70 (1780)	79 1/2 (2020)	
	Length	50 5/8 (1287)	63 (1600)	65 (1650)	67 1/3 (1710)	67 7/8 (1725)	68 (1725)	71 2/3 (1820)	71 2/3 (1820)	81 1/9 (2060)	81 1/9 (2060)	91 (2310)	
Net Weight Lbs (kgs)		180 (82)	441 (200)	495 (225)	528 (240)	594 (270)	583 (265)	682 (310)	682 (310)	836 (380)	850 (390)	902 (410)	

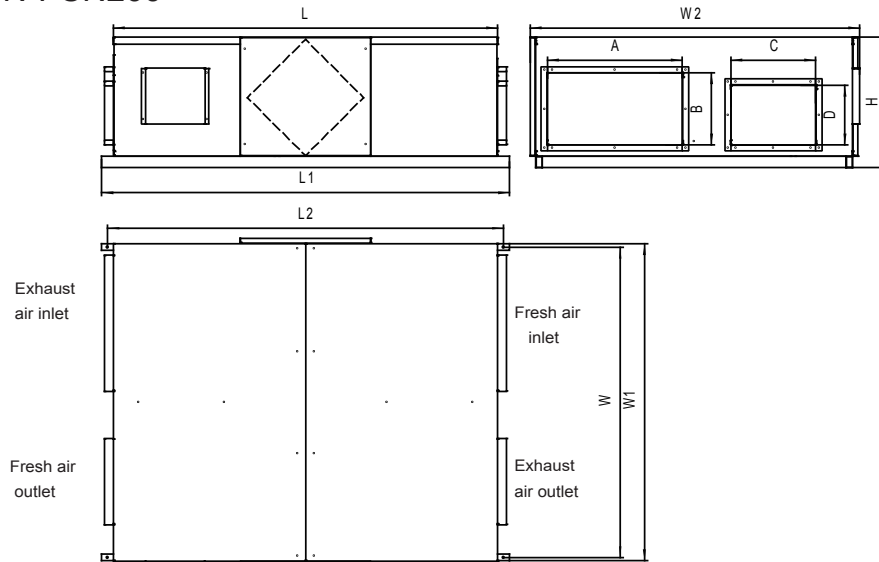
2. Dimensional Drawings

Unit:mm

ERVD015A3N-FCN030~ERVD090A3N-FCN150



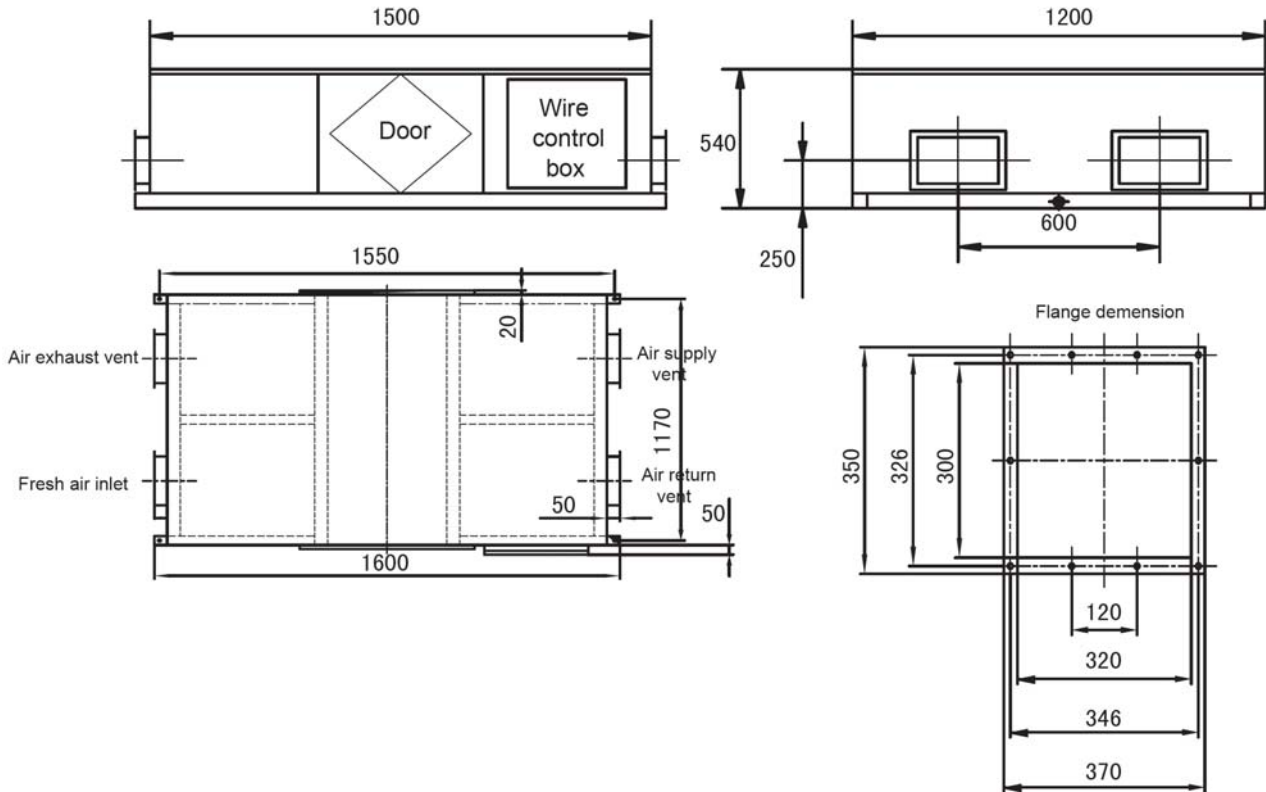
ERVD120A3N-FCN200



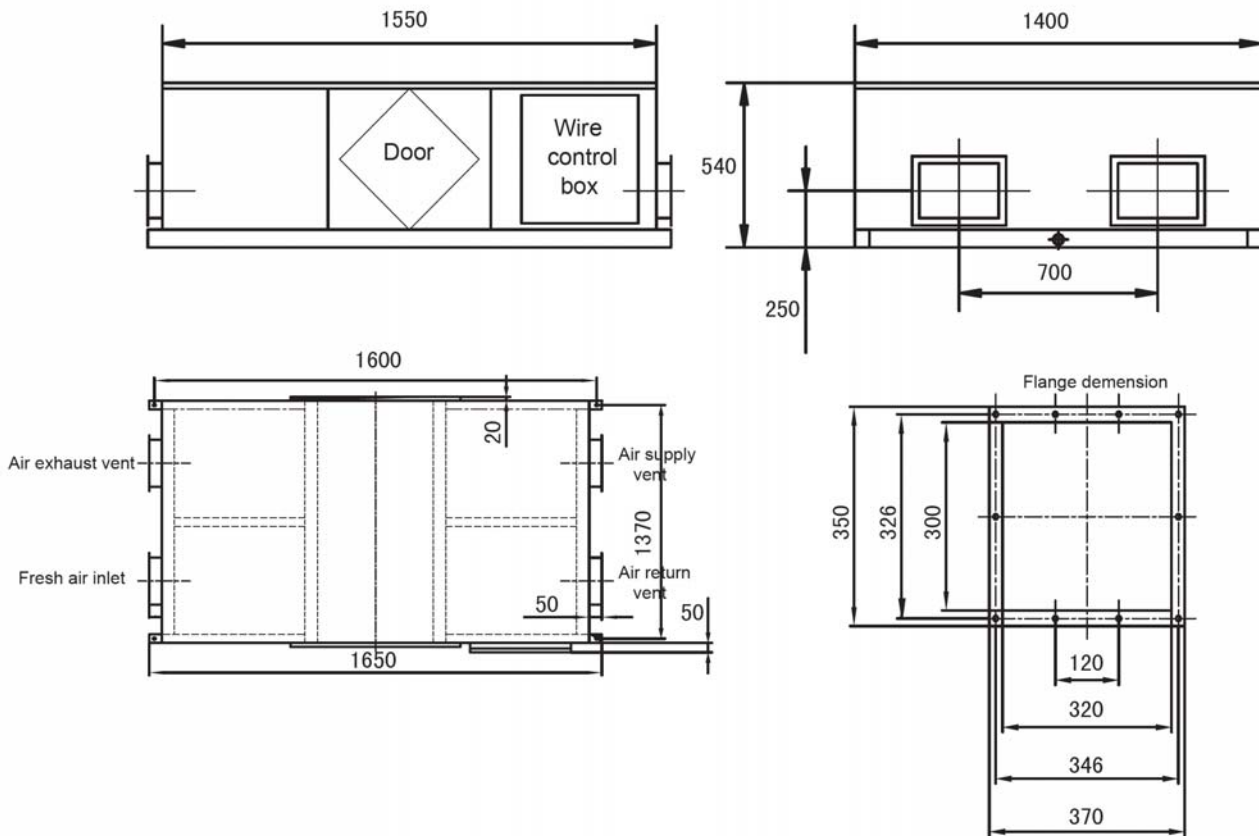
Model	L	L1	L2	W	W1	W2	H	A	B	C	D	E
ERVD015A3N-FCN030	755	934	802	547	598	635	270	/	/	/	/	φ144
ERVD020A3N-FCN040	755	934	802	748	806	840	270	/	/	/	/	φ144
ERVD030A3N-FCN050	831	1026	887	839	906	940	270	/	/	/	/	φ198
ERVD040A3N-FCN060	831	1026	887	839	906	940	270	/	/	/	/	φ198
ERVD050A3N-FCN080	1110	1282	1166	818	885	918	388	/	/	/	/	φ244
ERVD060A3N-FCN100	1110	1282	1166	818	885	918	388	/	/	/	/	φ244
ERVD080A3N-FCN130	1110	1282	1166	1068	1135	1168	388	/	/	/	/	φ244
ERVD090A3N-FCN 150	1110	1282	1166	1068	1135	1168	388	/	/	/	/	φ244
ERVD120A3N-FCN200	1502	1600	1561	1172	1202	1250	525	327	303	327	303	/

Dimensional Drawings

ERVB090A3N-DCN150



ERVB120A3N-DCN200



3-Electric Characteristics

Model	Power supply	Unit dimension (mm)	Net weight (kg)	Static pressure (Pa)	Air flow volume (m3/h)
ERVD015A3N-FCN030	220V/50Hz 1 Phase	934×635×270	25	75	300
ERVD020A3N-FCN040		934×840×270	31	80	400
ERVD030A3N-FCN050		1026×940×270	34	80	500
ERVD040A3N-FCN060		1026×940×270	36	90	600
ERVD050A3N-FCN080		1282×918×388	61	100	800
ERVD060A3N-FCN100		1282×918×388	62	130	1000
ERVD080A3N-FCN130		1282×1168×388	71	150	1300
ERVD090A3N-FCN150		1282×1168×388	73	160	1500
ERVD120A3N-FCN200		1600×1250×525	150	170	2000

Model	Cooling		Heating		Input Power (W)	Running Current (A)	Noise Level dB(A)
	temperature efficiency	enthalpy efficiency	temperature efficiency	enthalpy efficiency			
ERVD015A3N-FCN030	78	65	78	70	120	0.6	39
ERVD020A3N-FCN040	78	65	79	70	200	1.0	40
ERVD030A3N-FCN050	79	66	79	71	220	1.0	41
ERVD040A3N-FCN060	79	65	79	70	242	1.2	42
ERVD050A3N-FCN080	79	65	79	70	410	1.5	43
ERVD060A3N-FCN100	78	67	78	71	510	2.0	45
ERVD080A3N-FCN130	78	67	78	70	610	4.1	50
ERVD090A3N-FCN150	78	67	78	72	710	4.4	52
ERVD120A3N-FCN200	79	68	79	70	827	4.5	60



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