

OMEGA VRF TECHNOLOGY

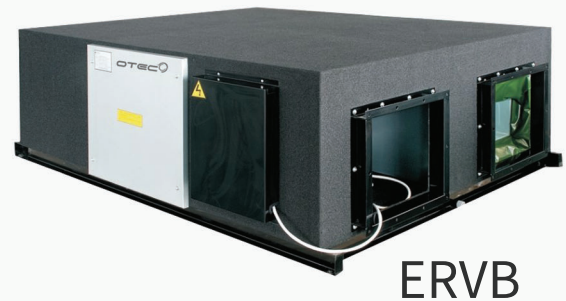
Engineered to elevate efficiency and comfort
..... to the next level!

ERVD / ERVB SERIES ENERGY RECOVERY VENTILATORS 220V/1/50Hz - 380V/3/50Hz

Air Flow Volume Min~Max: 120~6,000 CFM (200~10,200 m³/h)

Product Features

- ✓ Fresh Air Supply Ventilation.
- ✓ Low Noise Design.
- ✓ Simultaneous Exhaust & Supply Air.
- ✓ Free Cooling via Outside Fresh Air.
- ✓ Energy & Costs Savings.
- ✓ Advance Heat Exchange Core.
- ✓ Direct Drive 3 Speed on models up to 150.
- ✓ Single speed on models 180 & larger.
- ✓ Wired LCD Remote Control (Standard for 010-150).
- ✓ 7 Days programmable Controller (Optional)
- ✓ Optoelectronic Isolated Converter (Optional).
- ✓ Air Filtration and Purge Function.
- ✓ Compatible with VRF Systems.
- ✓ Easy Installation & Maintenance.
- ✓ Factory Tested.



OMEGA

OTEC
AIR CONDITIONING

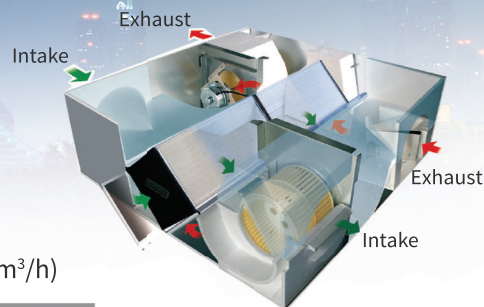
A Product of
OMEGA
Environmental
Technologies LLC.

ISO 14001 ISO 9001

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Air Flow Volume Min~Max: 120~6,000 CFM (200~10,200 m³/h)



ENERGY RECOVERY VENTILATORS 50 Hz

| MODEL NO. | ERVD | 010A 3N-FCN020 | 015A 3N-FCN030 | 020A 3N-FCN040 | 030A 3N-FCN050 | 040A 3N-FCN060 | 050A 3N-FCN080 | 060A 3N-FCN100 | 080A 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) (1)* | | 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 | 1.10 | 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) |



Wired Controller
(010A-150A)



ERVDC-G724T
(Optional)

| MODEL NO. | ERVB | 090A 3N-FCN150 | 120A 3N-FCN200 | 150A 3N-FCN250 | 180A 7N-FNN300 | 240A 7N-FNN400 | 300A 7N-FNN500 | 360A 7N-FNN600 | 420A 7N-FNN700 | 480A 7N-FNN800 | 540A 7N-FNN900 | 600A 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) (1)* | | 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 | | | | | 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) | 465(225) | 528(240) | 594(270) | 583(265) | 682(310) | 682(310) | 836(380) | 858(390) | 902(410) | |

Notes: 1. Temperature Exchange and Enthalpy Exchange Efficiencies are based on:
Cooling: Indoor air entering conditions DB 27°C (80°F), WB: 20°C (68°F), outdoor ambient temperature DB 35°C (95°F), WB: 29°C (84°F).
Heating: Indoor air entering conditions DB 20°C (68°F), WB: 14°C (57°F), outdoor ambient temperature DB 5°C (41°F), WB: 2°C (36°F).

2. Sound power level will be according to ISO 5151, sound pressure calculated at 1m of distance.
 3. Models 120-600 are available as 220-240/3/50 on special order.
 4. For details of model number nomenclature, please refer to publication OGMNM-0317.