

ERV-ENERGY RECOVERY



XEM External Mount Unit

XEM2400P3 Technical Data

Technical Specifications

Nominal Airflow

| | |
|---------------------|-------------|
| Supply Air (l/sec) | 1900 - 2400 |
| Exhaust Air (l/sec) | 1900 - 2400 |
| Return Air (l/sec) | 1900 - 2400 |
| Fresh Air (l/sec) | 1900 - 2400 |

Supply Fan

| | |
|----------------------|-------------|
| Fan Type | EC Plug Fan |
| Motor Power (Watts) | 4450 |
| External Static (Pa) | 250 |
| Fan Diameter | 450 |
| Number of Fans | 1 |

Exhaust Fan

| | |
|----------------------|-------------|
| Fan Type | EC Plug Fan |
| Motor Power (Watts) | 4450 |
| External Static (Pa) | 250 |
| Fan Diameter | 450 |
| Number of Fans | 1 |

Electrical

*Max FLA to be used to size supply cables and relevant safety devices

| | |
|------------------------|--------------------|
| Total Run Current (A) | 7.4 - 7.4 - 7.4 |
| Maximum Full Load (A) | 13.6 - 13.6 - 13.6 |
| Power Supply (V/Ph/Hz) | 415/3/50 |

Controls

| | |
|-----------------------------|-----------|
| 0-10V DC (Fan Control) | Included |
| 24V AC Fan Enable Relay | Included |
| Fan Fault Signal 24V Output | Included |
| Fan Control Status | Available |
| Switchboard | Yes |
| Circuit Breakers | Yes |

Heat Exchanger

*Rated at standard conditions of 35.5° db/24.0° wb

| | Enthalpy | Sensible |
|---------------------------|---------------|-----------|
| Corrosion Resistant Media | Not Available | Available |
| Face Velocity (m/sec) | 2.1 | 1.9 |
| Pressure Drop (Pa) | 225 | 77.64 |
| Kw Recovered (Cooling)* | 40 | 20.25 |
| Kw Recovered (Heating)* | 47 | 24.4 |

Cabinet Construction

| | |
|--------------------|----------------------|
| Casing | 50mm Panel |
| Finish | Surf Mist Colourbond |
| Insulation Value | R2.0 |
| Side Access Panels | Included |

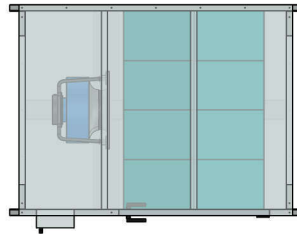
Options

| | |
|------------------------------|-------------------------------|
| Chilled Water/Hot Water Coil | Available (Model XEC2400) |
| Economy Cycle | Available (Model XEM2400P3-E) |
| Return Air Bypass | Available |

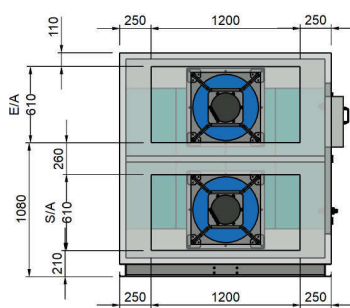
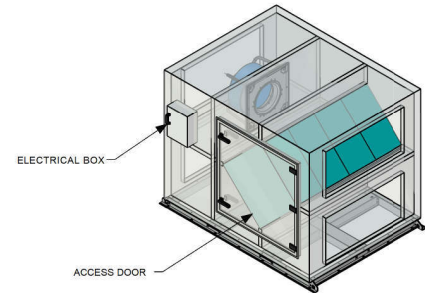
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XEM External Mount Unit – XEM2400P3 Technical Data

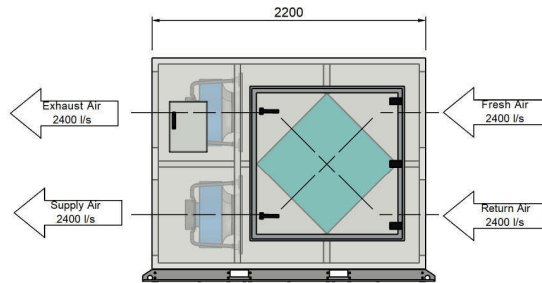
Technical Drawings – XEM2400P3



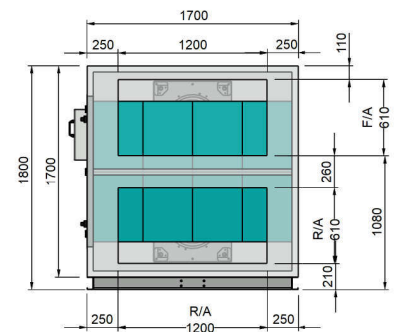
PLAN VIEW



E/A & S/A SPIGOTS



ELEVATION VIEW - ACCESS PANEL SIDE



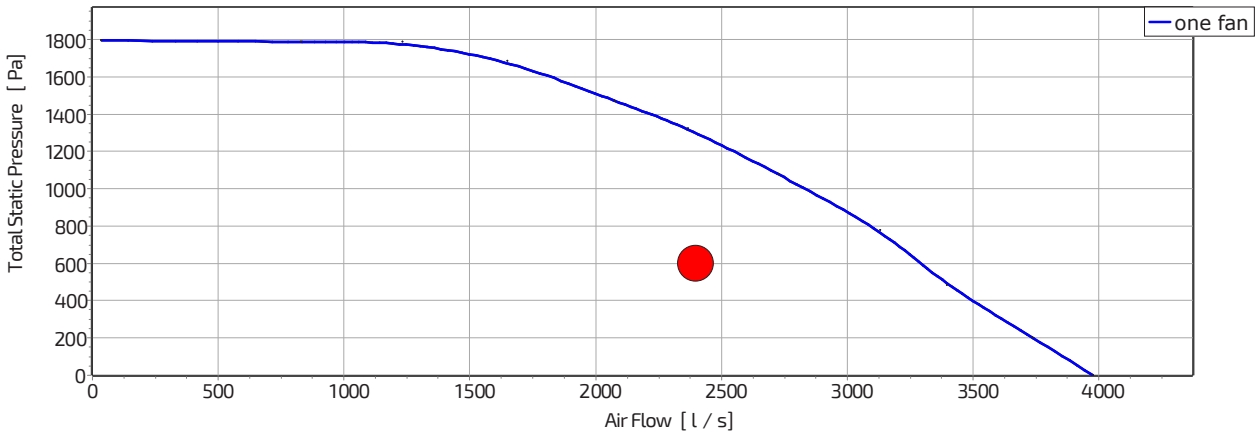
F/A & R/A SPIGOTS

| Dimension | |
|-----------------------|---------------------------|
| Height (mm) | 1800 |
| Width (mm) | 1700 |
| Length (mm) | 2200 |
| Weight (Kg) | 790 |
| Access Clearance (mm) | 1200 (Fan & Media Access) |
| Access Clearance (mm) | 900 (Electrical Controls) |

| Duct Sizes | |
|------------------|------------|
| Exhaust Air (mm) | 1200 x 610 |
| Return Air (mm) | 1200 x 610 |
| Supply Air (mm) | 1200 x 610 |
| Fresh Air (mm) | 1200 x 610 |

Fan Performance Data

*Duty point - 2400 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)

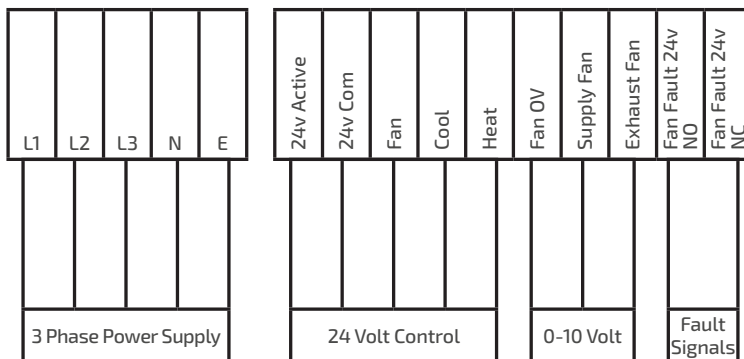


Sound Power Levels

*Sound power levels at 600 Pa Total Static Pressure and 2400 L/s Total Air Volume

| Inlet Rating dB (A) | | Outlet Rating dB (A) | |
|---------------------|------|----------------------|------|
| 63 Hz | 45.5 | 63 Hz | 48.0 |
| 125 Hz | 62.7 | 125 Hz | 64.1 |
| 250 Hz | 71.2 | 250 Hz | 70.4 |
| 500 Hz | 73.6 | 500 Hz | 77.1 |
| 1 K Hz | 73.7 | 1K Hz | 81.9 |
| 2K Hz | 75.3 | 2K Hz | 82.5 |
| 4K Hz | 78.6 | 4K Hz | 80.8 |
| 8K Hz | 73.6 | 8K Hz | 75.8 |
| LwA | 82.8 | LwA | 87.4 |

Wiring Diagram



STANDARD INCLUSIONS

- Fan Speed Controller
- 0-10v DC - BMS Connection, **OR**
- 24v AC - Fan Speed Control via Pots
- Circuit Breakers

