

ERV-ENERGY RECOVERY



XEM External Mount Unit

XEM6000P3 Technical Data

Technical Specifications

Nominal Airflow

| | |
|---------------------|-------------|
| Supply Air (l/sec) | 5500 - 6000 |
| Exhaust Air (l/sec) | 5500 - 6000 |
| Return Air (l/sec) | 5500 - 6000 |
| Fresh Air (l/sec) | 5500 - 6000 |

Supply Fan

| | |
|----------------------|-------------|
| Fan Type | EC Plug Fan |
| Motor Power (Watts) | 4450 |
| External Static (Pa) | 250 |
| Fan Diameter | 450 |
| Number of Fans | 2 |

Exhaust Fan

| | |
|----------------------|-------------|
| Fan Type | EC Plug Fan |
| Motor Power (Watts) | 4450 |
| External Static (Pa) | 250 |
| Fan Diameter | 450 |
| Number of Fans | 2 |

Electrical

*Cable sized to maximum FLA.
Data presented for airflow at 6000 L/s

| | |
|---------------------------|--------------------|
| Operating Supply Fan (A) | 10.4 - 10.4 - 10.4 |
| Operating Exhaust Fan (A) | 10.4 - 10.4 - 10.4 |
| Operating Run Current (A) | 20.8 - 20.8 - 20.8 |
| Maximum Full Load (A) | 27.2 - 27.2 - 27.2 |
| Volt/Phase | 415V/3ph |

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 Media | Standard |
| Sensible Media | Available |
| Face Velocity (m/sec) | 1.9 |
| Pressure Drop (Pa) | 155.6 |
| Kw Recovered (Cooling)* | 91.7 |
| Kw Recovered (Heating)* | 105.6 |

Cabinet Construction

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

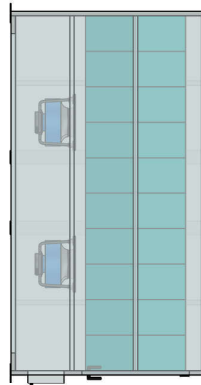
Options

| | |
|------------------------------|-------------------------------|
| Chilled Water/Hot Water Coil | Available (Model XEC6000) |
| Economy Cycle | Available (Model XEM6000P3-E) |
| Return Air Bypass | Available |

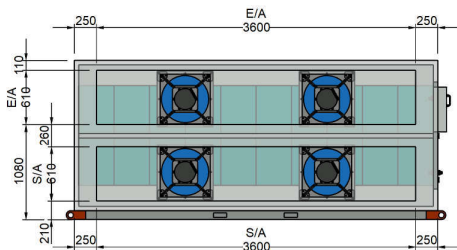
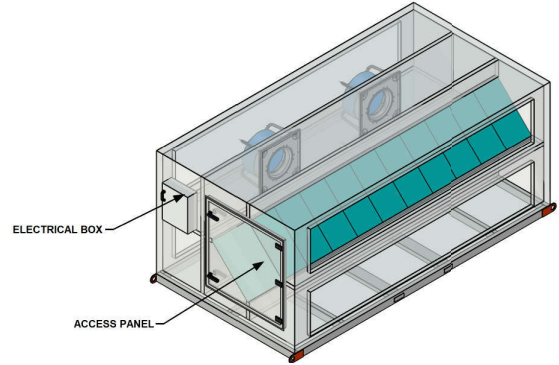
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XEM External Mount Unit – XEM6000P3 Technical Data

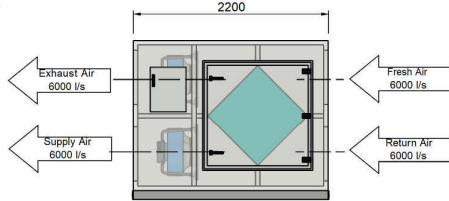
Technical Drawings – XEM6000P3



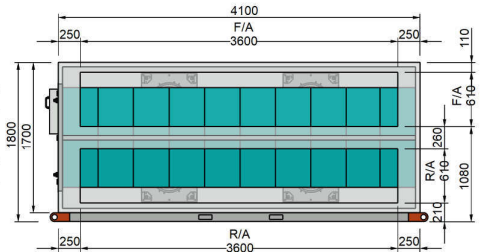
PLAN VIEW



E/A & S/A SPIGOTS



ELEVATION VIEW - ACCESS PANEL SIDE



F/A & R/A SPIGOTS

Dimension

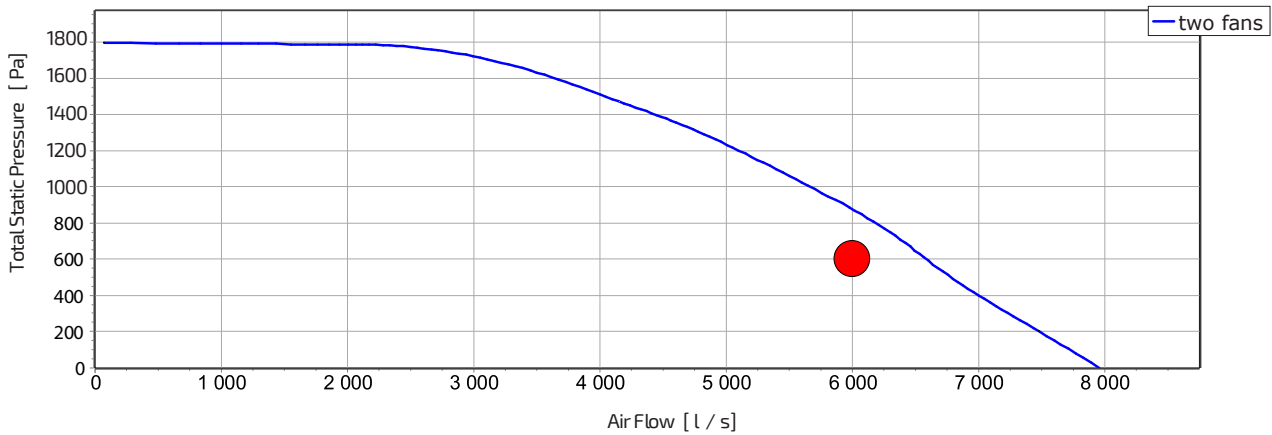
| | |
|-----------------------|---------------------------|
| Height (mm) | 1800 |
| Width (mm) | 4100 |
| Length (mm) | 2200 |
| Weight (Kg) | 1465 |
| Access Clearance (mm) | 1200 (Fan & Media Access) |
| Access Clearance (mm) | 900 (Electrical Controls) |

Duct Sizes

| | |
|------------------|------------|
| Exhaust Air (mm) | 3600 x 610 |
| Return Air (mm) | 3600 x 610 |
| Supply Air (mm) | 3600 x 610 |
| Fresh Air (mm) | 3600 x 610 |

Fan Performance Data

*Duty point - 6000 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)

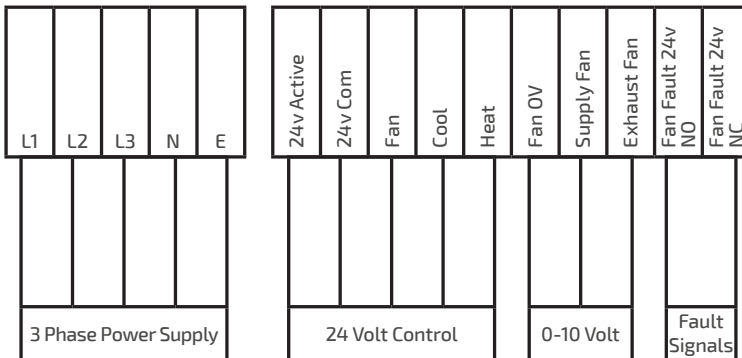


Sound Power Levels

*Sound power levels at 600 Pa Total Static Pressure and 6000 L/s Total Air Volume

| Inlet Rating dB (A) | | Outlet Rating dB (A) | |
|---------------------|------|----------------------|------|
| 63 Hz | 49.6 | 63 Hz | 54.0 |
| 125 Hz | 66.4 | 125 Hz | 67.4 |
| 250 Hz | 78.9 | 250 Hz | 78.9 |
| 500 Hz | 83.1 | 500 Hz | 85.7 |
| 1 K Hz | 81.6 | 1K Hz | 90.1 |
| 2K Hz | 83.8 | 2K Hz | 91.0 |
| 4K Hz | 83.3 | 4K Hz | 86.8 |
| 8K Hz | 88.0 | 8K Hz | 87.4 |
| LwA | 91.8 | LwA | 95.7 |

Wiring Diagram



STANDARD INCLUSIONS

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

