

# ERV-ENERGY RECOVERY



## XEM External Mount Unit

### XEM4200P3 Technical Data

#### Technical Specifications

##### Nominal Airflow

|                     |             |
|---------------------|-------------|
| Supply Air (l/sec)  | 3700 - 4200 |
| Exhaust Air (l/sec) | 3700 - 4200 |
| Return Air (l/sec)  | 3700 - 4200 |
| Fresh Air (l/sec)   | 3700 - 4200 |

##### 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  
4200 L/s

|                           |                    |
|---------------------------|--------------------|
| Operating Supply Fan (A)  | 6.4 - 6.4 - 6.4    |
| Operating Exhaust Fan (A) | 6.4 - 6.4 - 6.4    |
| Operating Run Current (A) | 12.8 - 12.8 - 12.8 |
| 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)* | 64.7      |
| Kw Recovered (Heating)* | 73.9      |

##### Cabinet Construction

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

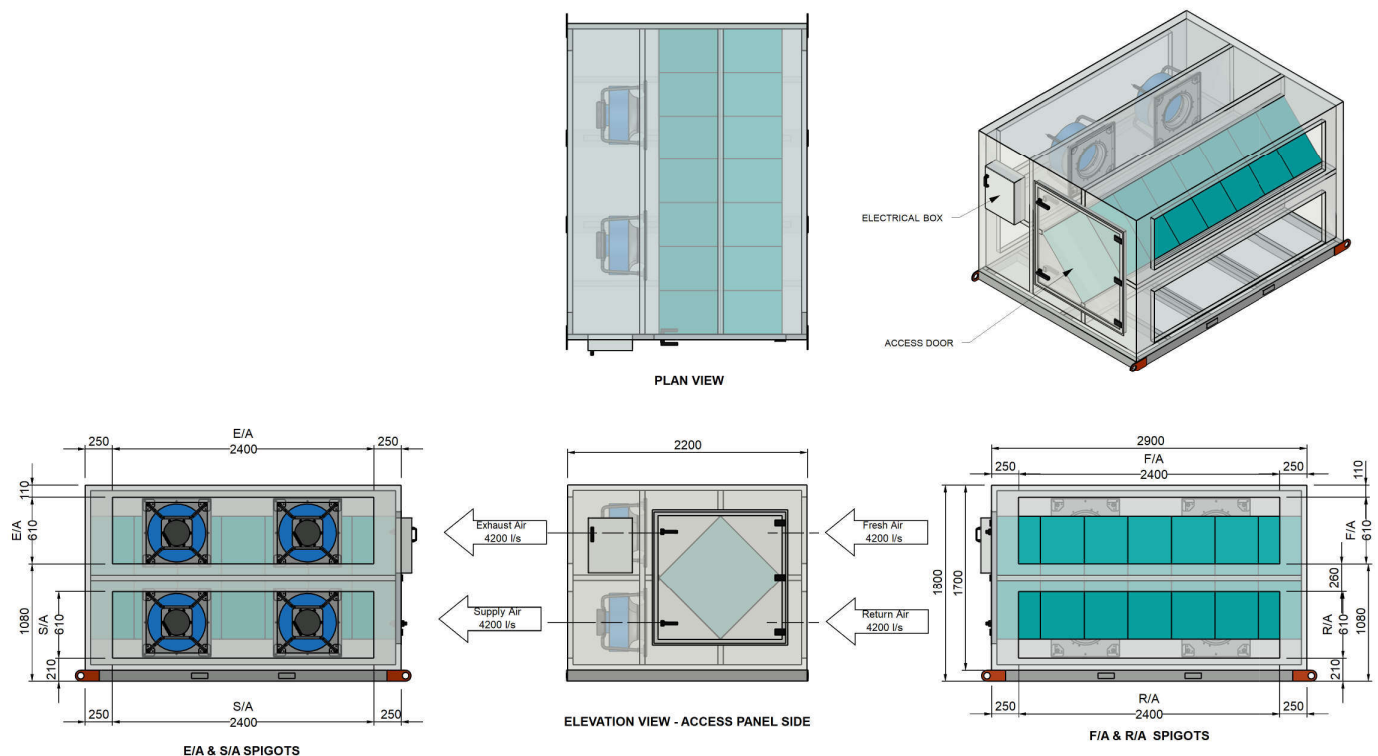
##### Options

|                              |                               |
|------------------------------|-------------------------------|
| Chilled Water/Hot Water Coil | Available (Model XEC4200)     |
| Economy Cycle                | Available (Model XEM4200P3-E) |
| Return Air Bypass            | Available                     |

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## XEM External Mount Unit – XEM4200P3 Technical Data

### Technical Drawings – XEM4200P3



#### Dimension

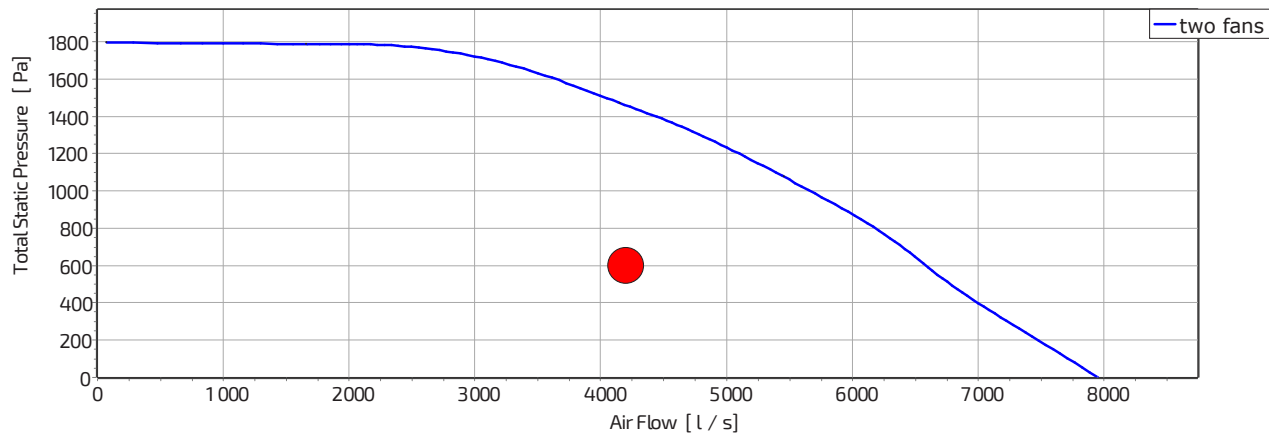
|                       |                           |
|-----------------------|---------------------------|
| Height (mm)           | 1800                      |
| Width (mm)            | 2900                      |
| Length (mm)           | 2200                      |
| Weight (Kg)           | 1140                      |
| Access Clearance (mm) | 1200 (Fan & Media Access) |
| Access Clearance (mm) | 900 (Electrical Controls) |

#### Duct Sizes

|                  |            |
|------------------|------------|
| Exhaust Air (mm) | 2400 x 610 |
| Return Air (mm)  | 2400 x 610 |
| Supply Air (mm)  | 2400 x 610 |
| Fresh Air (mm)   | 2400 x 610 |

### Fan Performance Data

\*Duty point - 4200 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)

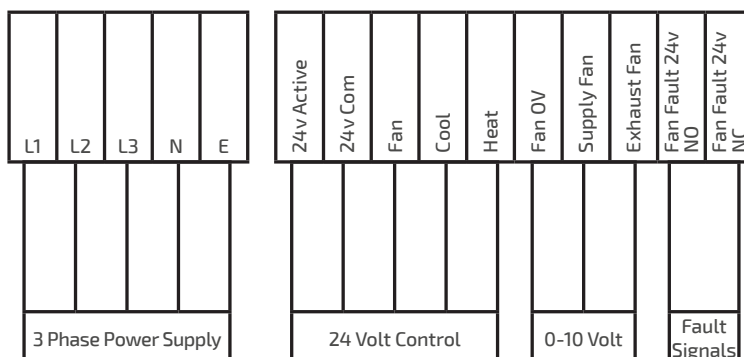


### Sound Power Levels

\*Sound power levels at 600 Pa Total Static Pressure and 4200 L/s Total Air Volume

| Inlet Rating dB (A) |      | Outlet Rating dB (A) |      |
|---------------------|------|----------------------|------|
| 63 Hz               | 48.4 | 63 Hz                | 50.4 |
| 125 Hz              | 64.2 | 125 Hz               | 65.3 |
| 250 Hz              | 70.8 | 250 Hz               | 70.8 |
| 500 Hz              | 73.1 | 500 Hz               | 77.3 |
| 1 K Hz              | 74.3 | 1K Hz                | 82.3 |
| 2K Hz               | 75.5 | 2K Hz                | 82.6 |
| 4K Hz               | 78.2 | 4K Hz                | 81.1 |
| 8K Hz               | 69.7 | 8K Hz                | 74.1 |
| LwA                 | 82.4 | LwA                  | 87.6 |

### Wiring Diagram



#### STANDARD INCLUSIONS

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

Circuit Breakers