

# ERV-ENERGY RECOVERY



## XEC Chilled/Hot Water Coil Unit

### XEC6000P3 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 |
| Motor Power (Watts)  | 4500    |
| External Static (Pa) | 250     |
| Fan Diameter         | 450     |
| Number of Fans       | 2       |

##### Exhaust Fan

|                      |         |
|----------------------|---------|
| Fan Type             | EC Plug |
| Motor Power (Watts)  | 4500    |
| External Static (Pa) | 250     |
| Fan Diameter         | 450     |
| Number of Fans       | 2       |

##### Electrical

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

|                        |                    |
|------------------------|--------------------|
| Total Run Current (A)  | 20.8 - 20.8 - 20.8 |
| Maximum Full Load (A)  | 27.2 - 27.2 - 27.2 |
| Power Supply (V/Ph/Hz) | 415/3/50           |

##### Controls

|                        |           |
|------------------------|-----------|
| 0-10V DC (Fan Control) | Included  |
| 24V AC Control Relay   | Included  |
| Fan Fault Signal       | Included  |
| Fan Run 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)*   | 100           | 50.6      |
| Kw Recovered (Heating)*   | 117           | 61        |

##### Cabinet Construction

|                    |                      |
|--------------------|----------------------|
| Casing             | 50mm Insulated Panel |
| Insulation Value   | R2.0                 |
| Side Access Panels | Included             |

##### Chilled Water Coil - if required (Nom. rating)

|                               |               |
|-------------------------------|---------------|
| Total Capacity (Kw)           | 133.0         |
| Max. Size FL x FH (mm)        | 3740 x 840    |
| Water In (°C)/ Water Out (°C) | 7° / 14°      |
| Coil Coating                  | Epoxy Coating |
| Face Velocity (m/sec)         | 1.91          |
| Stainless Steel Drain Tray    | Included      |

##### Hot Water Coil - if required (Nom. rating)

|                               |               |
|-------------------------------|---------------|
| Total Capacity (Kw)           | 133.0         |
| Max. Size FL x FH (mm)        | 3740 x 840    |
| Water In (°C)/ Water Out (°C) | 80° / 60°     |
| Coil Coating                  | Epoxy Coating |
| Face Velocity (m/sec)         | 1.91          |

##### Options

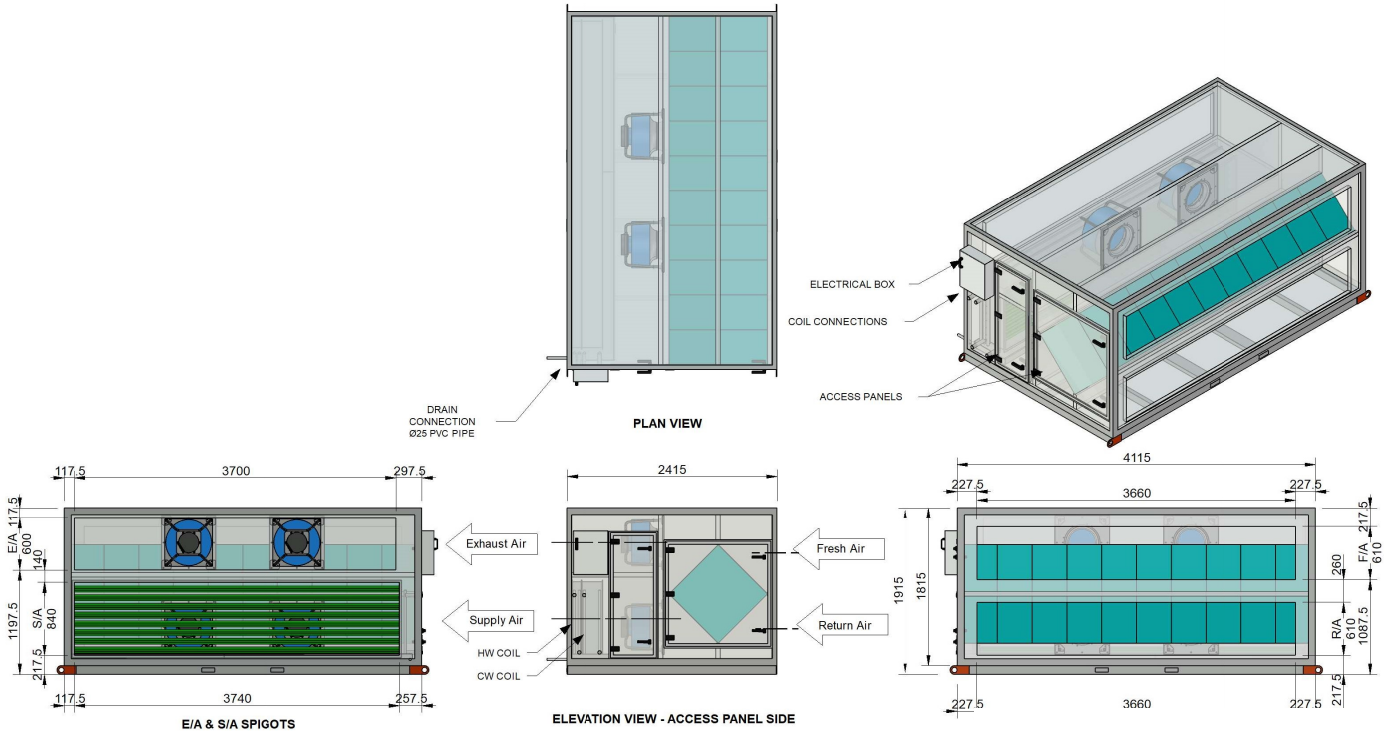
|                            |           |
|----------------------------|-----------|
| Economy Cycle              | Available |
| Return Air Bypass          | Available |
| Corrosion Resistant Lining | Available |

# ERV-ENERGY RECOVERY

## XEC Chilled/ Hot Water Coil Unit – XEC6000P3 Technical Data



### Technical Drawings – XEC6000P3



#### Dimension

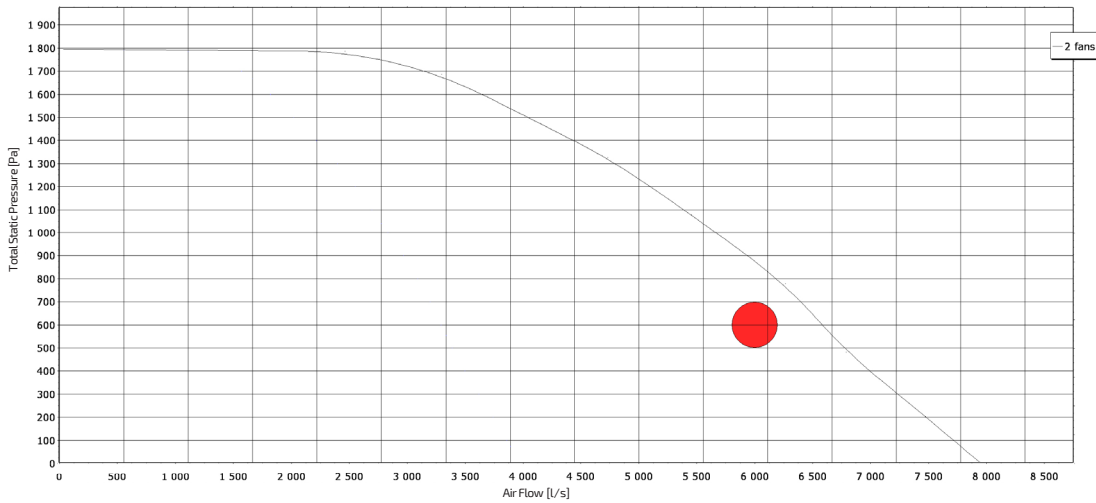
|                       |                           |
|-----------------------|---------------------------|
| Height (mm)           | 1915                      |
| Width (mm)            | 4115                      |
| Length (mm)           | 2415                      |
| Weight (Kg)           | 2000                      |
| Access Clearance (mm) | 1200 (Fan & Media Access) |

#### Duct Sizes

|                  |            |
|------------------|------------|
| Exhaust Air (mm) | 3700 x 600 |
| Return Air (mm)  | 3660 x 610 |
| Supply Air (mm)  | 3700 x 840 |
| Fresh Air (mm)   | 3660 x 610 |

### Fan Performance Data

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

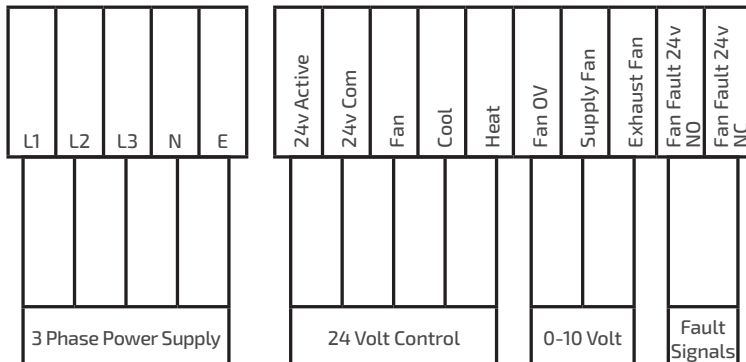


### Sound Power Levels

\*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

