

# ERV-ENERGY RECOVERY



## XEC Chilled/Hot Water Coil Unit

### XEC5400P3 Technical Data

#### Technical Specifications

##### Nominal Airflow

Supply Air (l/sec)	4900 - 5400
Exhaust Air (l/sec)	4900 - 5400
Return Air (l/sec)	4900 - 5400
Fresh Air (l/sec)	4900 - 5400

##### 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

Supply Fan (A)	13.6 - 13.6 - 13.6
Exhaust Fan (A)	13.6 - 13.6 - 13.6
Maximum Full Load (A)	27.2 - 27.2 - 27.2
Volt/Phase	415V/3ph

##### 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 Media	Available
Sensible Media	Standard
Face Velocity (m/sec)	1.875
Pressure Drop (Pa)	76
Kw Recovered (Cooling)*	39.2
Kw Recovered (Heating)*	63.1

##### Cabinet Construction

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

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

Total Capacity (Kw)	111.0
Max. Size FL x FH (mm)	3340 x 840
Water In (°C)/ Water Out (°C)	7° / 14°
Coil Coating	Epoxy Coating
Face Velocity (m/sec)	1.92
Stainless Steel Drain Tray	Included

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

Total Capacity (Kw)	111.0
Max. Size FL x FH (mm)	3340 x 840
Water In (°C)/ Water Out (°C)	80° / 60°
Coil Coating	Epoxy Coating
Face Velocity (m/sec)	1.92

##### Options

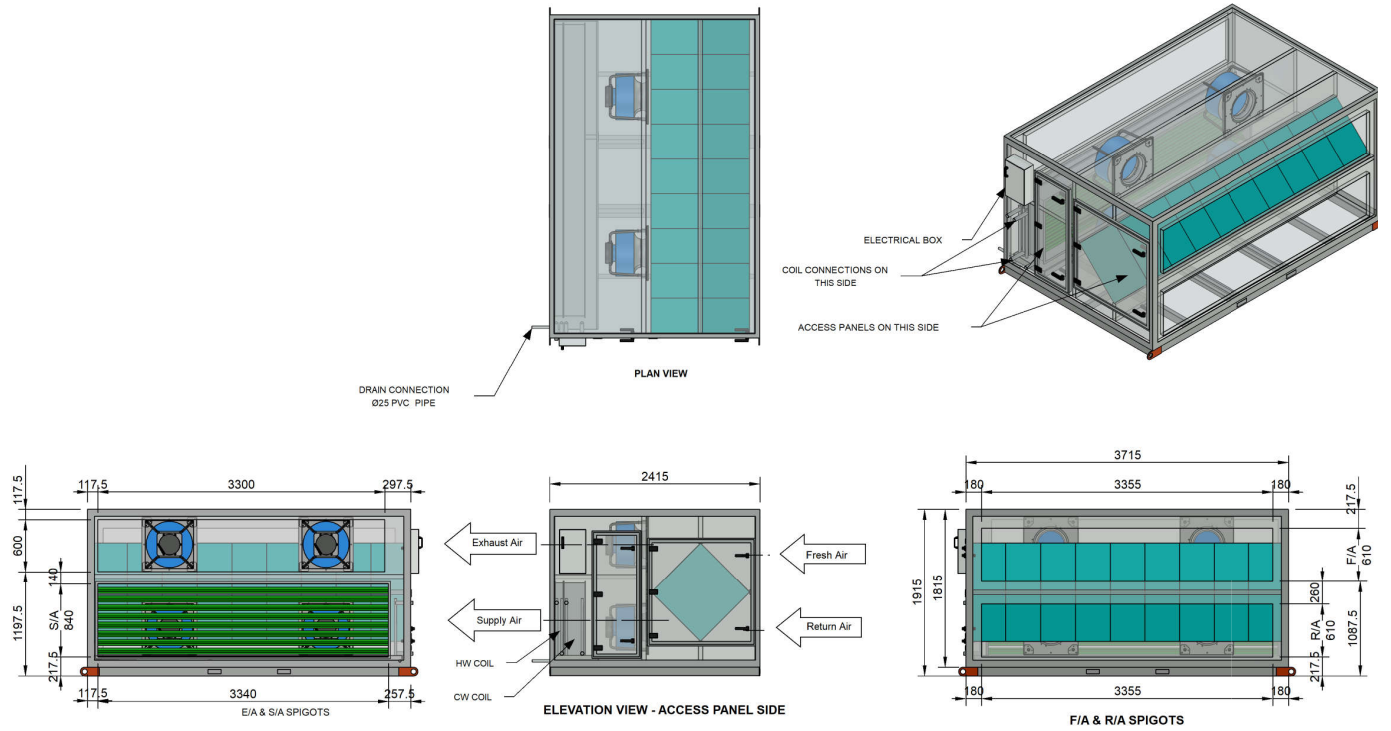
Economy Cycle	Available
Return Air Bypass	Available
Corrosion Resistant Lining	Available

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### Technical Drawings – XEC5400P3



#### Dimension

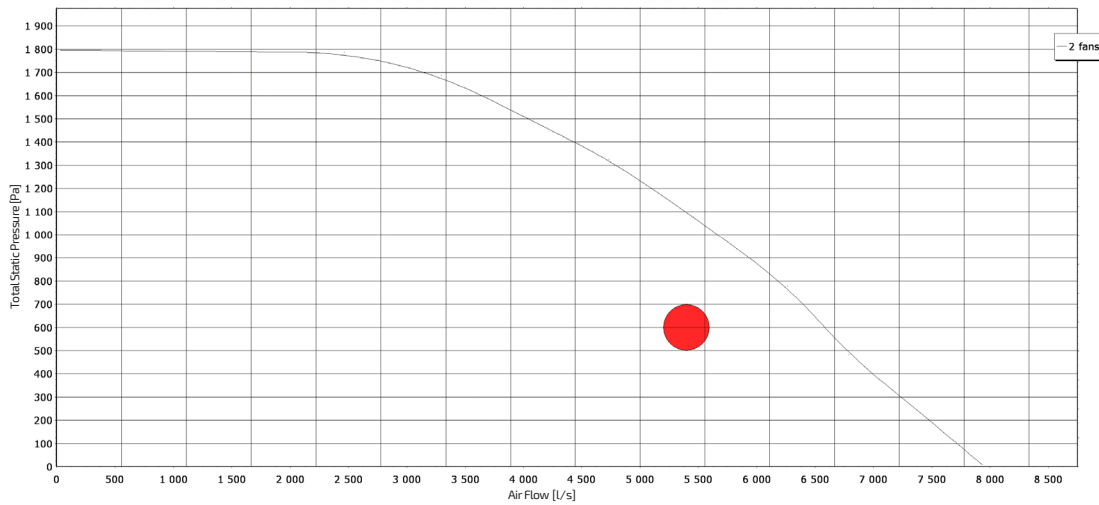
Height (mm)	1915
Width (mm)	3715
Length (mm)	2415
Weight (Kg)	1800
Access Clearance (mm)	1200 (Fan & Media Access)

#### Duct Sizes

Exhaust Air (mm)	3300 x 600
Return Air (mm)	3355 x 610
Supply Air (mm)	3300 x 840
Fresh Air (mm)	3355 x 610

### Fan Performance Data

\*Duty point - 5400 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)



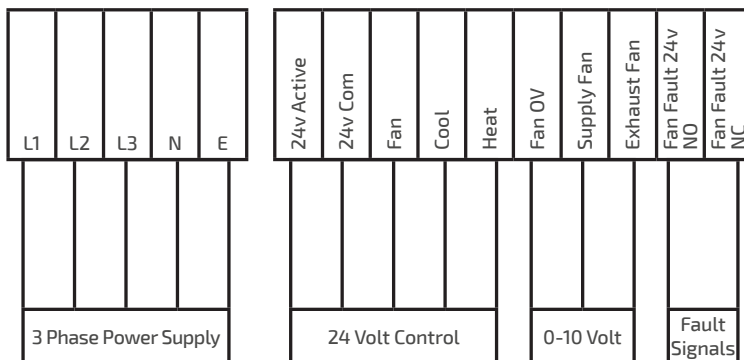
### Sound Power Levels

\*Sound power levels at 600 Pa Total Static Pressure and 5400 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	
63 Hz	70.1	63 Hz	72.1
125 Hz	71	125 Hz	73.5
250 Hz	79.3	250 Hz	79.6
500 Hz	75.9	500 Hz	81.1
1K Hz	73.7	1K Hz	82.7
2K Hz	74.3	2K Hz	79.8
4K Hz	71.7	4K Hz	76
8K Hz	70.3	8K Hz	73
LwA	80.6	LwA	86.5

\* Sound Power Levels @500 Pa Total Static Pressure and 800 l/s Total Air Volume.

### Wiring Diagram



#### Option 1

0-10V DC CONTROL VIA CONNECTION TO BMS

#### Option 2

24V AC ENABLE REGULATE FAN SPEED VIA POTS

Do not turn main power on/off to enable/disable the unit operation. This must be done through the control circuit.

