

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

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

Total Run Current (A)	17.6 - 17.6 - 17.6
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)*	90	45.6
Kw Recovered (Heating)*	105	55

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

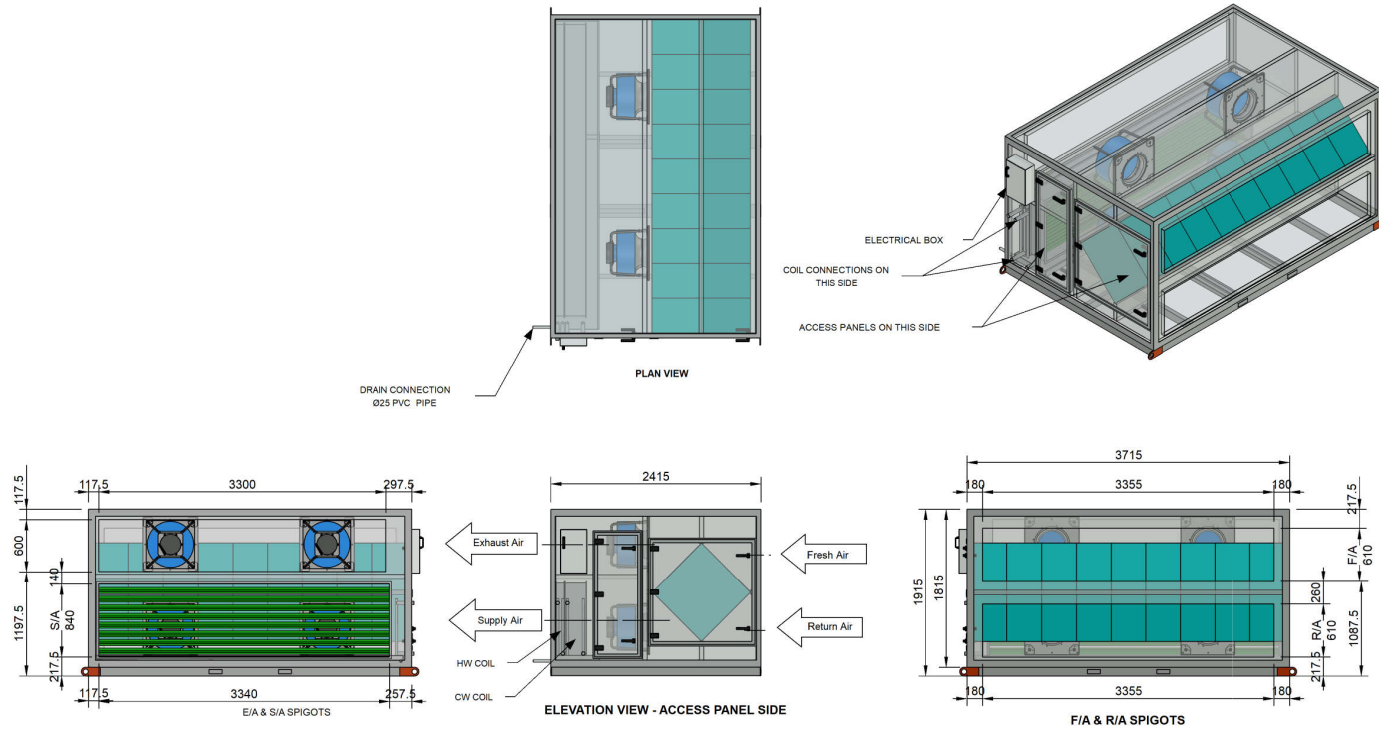
Economy Cycle	Available
Return Air Bypass	Available
Corrosion Resistant Lining	Available

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Technical Drawings – XEC5400P3

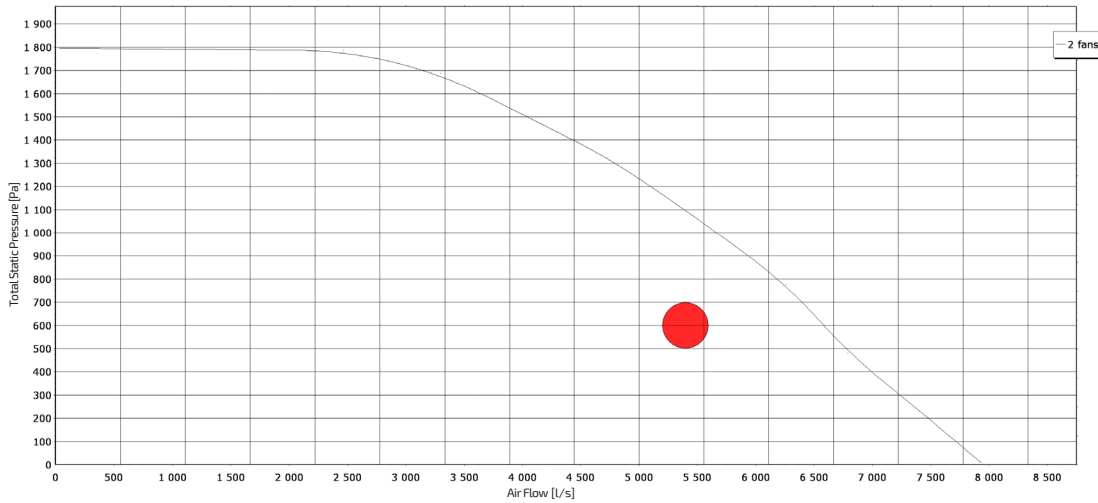


Dimension	
Height (mm)	1915
Width (mm)	3715
Length (mm)	2415
Weight (Kg)	1800
Access Clearance (mm)	1200 (Fan & Media Access)

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)

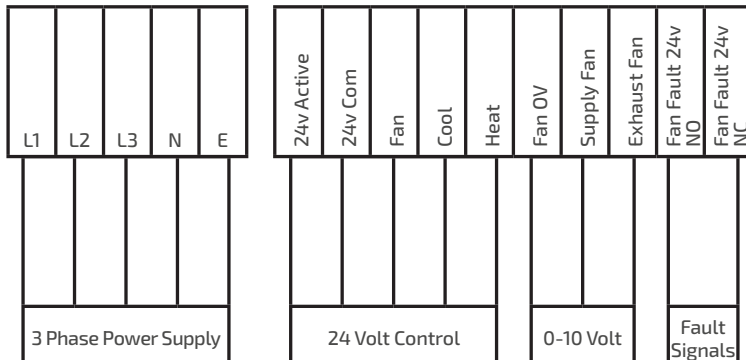


Sound Power Levels

*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

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.

