

ERV-ENERGY RECOVERY



XEC Chilled/Hot Water Coil Unit

XEC9000P3 Technical Data

Technical Specifications

Nominal Airflow

Supply Air (l/sec)	7600 - 9000
Exhaust Air (l/sec)	7600 - 9000
Return Air (l/sec)	7600 - 9000
Fresh Air (l/sec)	7600 - 9000

Supply Fan

Fan Type	EC Plug
Motor Power (Watts)	4500
External Static (Pa)	250
Fan Diameter	450
Number of Fans	3

Exhaust Fan

Fan Type	EC Plug
Motor Power (Watts)	4500
External Static (Pa)	250
Fan Diameter	450
Number of Fans	3

Electrical

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

Total Run Current (A)	35 - 35 - 35
Maximum Full Load (A)	40.8 - 40.8 - 40.8
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

	Sensible
Corrosion Resistant Media	Standard
Face Velocity (m/sec)	1.9
Pressure Drop (Pa)	95.6
Kw Recovered (Cooling)*	64.6
Kw Recovered (Heating)*	78

Cabinet Construction

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

Chilled Water Coil - if required (Nom. rating)

Total Capacity (Kw)	178.0
Max. Size FL x FH (mm)	3740 x 1040
Water In (°C)/ Water Out (°C)	7° / 14°
Coil Coating	Epoxy Coating
Face Velocity (m/sec)	2.31
Stainless Steel Drain Tray	Included

Hot Water Coil - if required (Nom. rating)

Total Capacity (Kw)	178.0
Max. Size FL x FH (mm)	3740 x 1040
Water In (°C)/ Water Out (°C)	80° / 60°
Coil Coating	Epoxy Coating
Face Velocity (m/sec)	2.31

Options

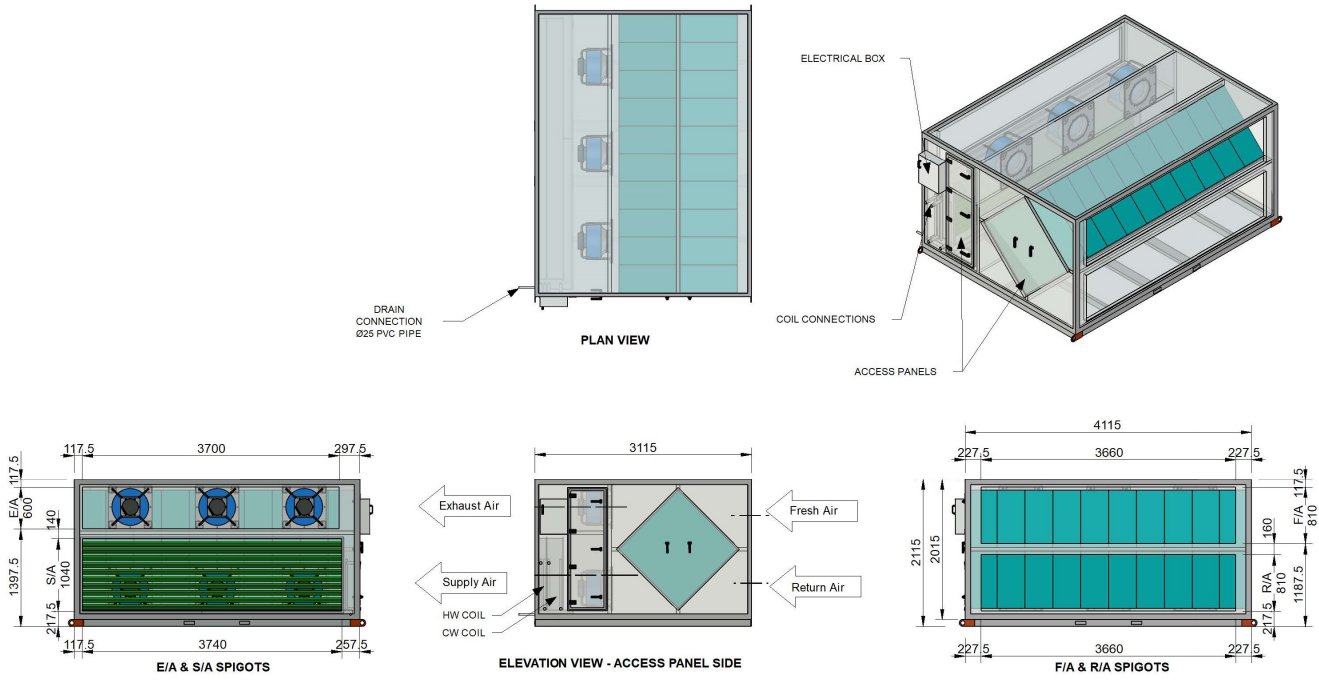
Economy Cycle	Available
Return Air Bypass	Available
Corrosion Resistant Lining	Available

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Technical Drawings – XEC9000P3



Dimension

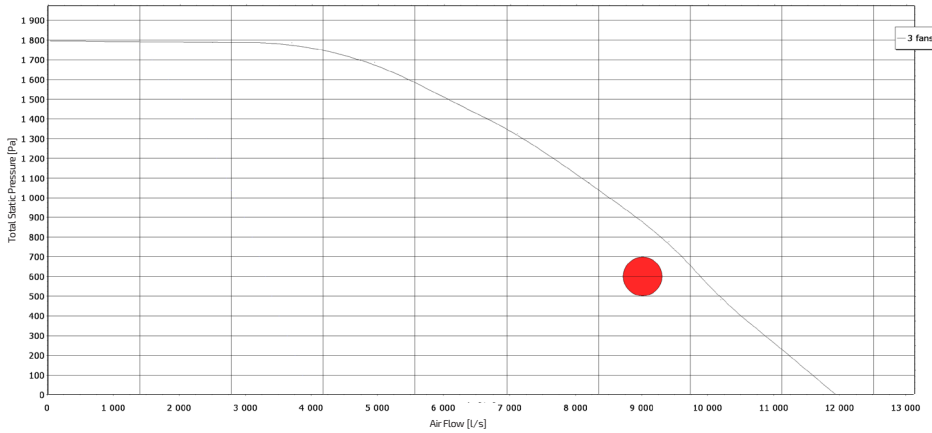
Height (mm)	2115
Width (mm)	4115
Length (mm)	3115
Weight (Kg)	2740
Access Clearance (mm)	1200 (Fan & Media Access)

Duct Sizes

Exhaust Air (mm)	3700 x 600
Return Air (mm)	3660 x 810
Supply Air (mm)	3700 x 1040
Fresh Air (mm)	3660 x 810

Fan Performance Data

*Duty point - 9000 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)

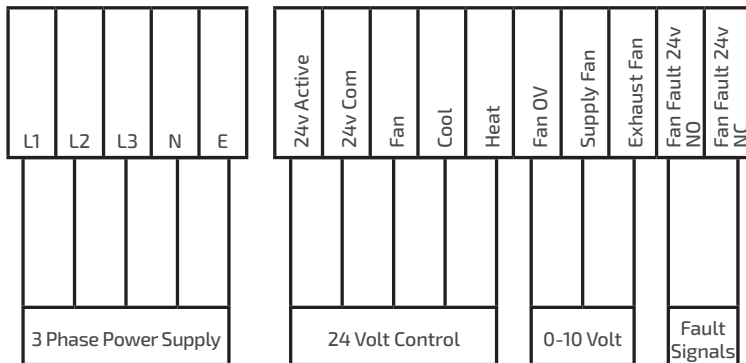


Sound Power Levels

*Sound power levels at 600 Pa Total Static Pressure and 9000 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	
63 Hz	69.2	63 Hz	70.8
125 Hz	73.8	125 Hz	75.3
250 Hz	75.8	250 Hz	76.4
500 Hz	72.6	500 Hz	78.0
1K Hz	70.7	1K Hz	79.4
2K Hz	70.4	2K Hz	76.3
4K Hz	68.3	4K Hz	72.9
8K Hz	64.0	8K Hz	67.5
LwA	77.1	LwA	83.2

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.

