

# ERV-ENERGY RECOVERY



## XEC Chilled/Hot Water Coil Unit

### XEC800P3 Technical Data

#### Technical Specifications

##### Nominal Airflow

Supply Air (l/sec)	600 - 800
Exhaust Air (l/sec)	600 - 800
Return Air (l/sec)	600 - 800
Fresh Air (l/sec)	600 - 800

##### Supply Fan

Fan Type	EC Plug
Motor Power (Watts)	1900
External Static (Pa)	250
Fan Diameter	355
Number of Fans	1

##### Exhaust Fan

Fan Type	EC Plug
Motor Power (Watts)	1900
External Static (Pa)	250
Fan Diameter	355
Number of Fans	1

##### Electrical

Supply Fan (A)	3.0 - 3.0 - 3.0
Exhaust Fan (A)	3.0 - 3.0 - 3.0
Maximum Full Load (A)	6.0 - 6.0 - 6.0
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)	1.67
Pressure Drop (Pa)	86
Kw Recovered (Cooling)*	4.7
Kw Recovered (Heating)*	7.5

##### Cabinet Construction

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

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

Total Capacity (Kw)	20.0
Max. Size FL x FH (mm)	610 x 610
Water In (°C)/ Water Out (°C)	7° / 14°
Coil Coating	Epoxy Coating
Face Velocity (m/sec)	2.1
Stainless Steel Drain Tray	Included

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

Total Capacity (Kw)	20.0
Max. Size FL x FH (mm)	610 x 610
Water In (°C)/ Water Out (°C)	80° / 60°
Coil Coating	Epoxy Coating
Face Velocity (m/sec)	2.1

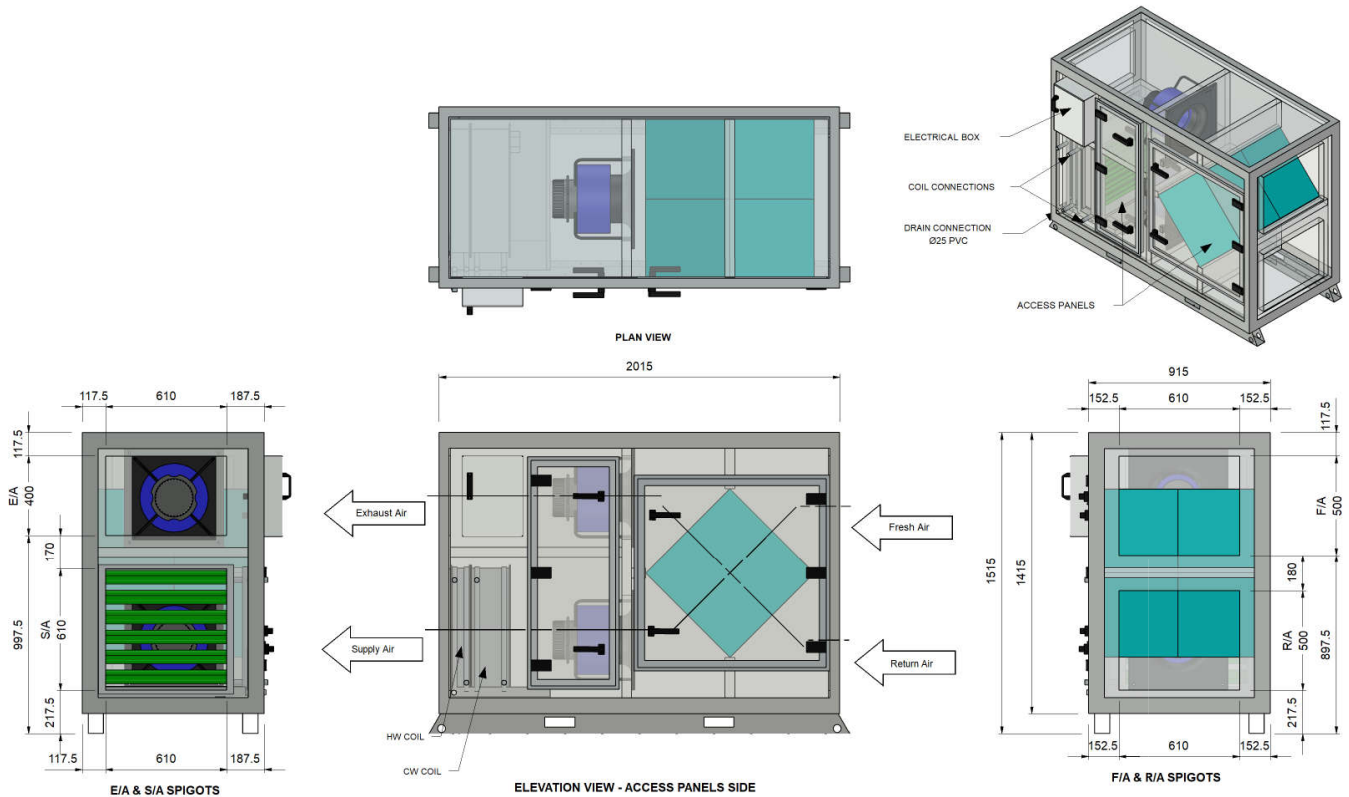
##### Options

Economy Cycle	Available
Return Air Bypass	Available
Corrosion Resistant Lining	Available

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### Technical Drawings – XEC800P3



#### Dimension

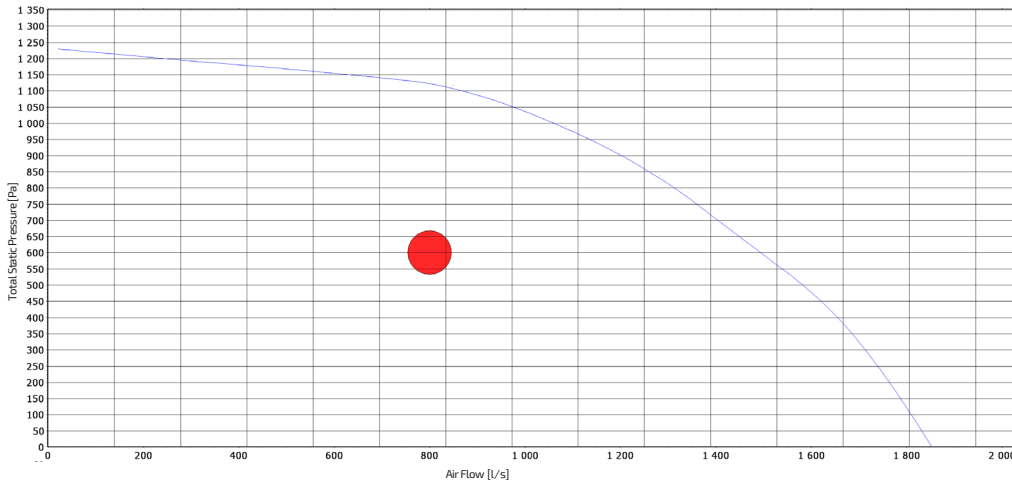
Height (mm)	1515
Width (mm)	915
Length (mm)	2015
Weight (Kg)	540
Access Clearance (mm)	1200 (Fan & Media Access)

#### Duct Sizes

Exhaust Air (mm)	610 x 400
Return Air (mm)	610 x 500
Supply Air (mm)	610 x 610
Fresh Air (mm)	610 x 500

### Fan Performance Data

\*Duty point - 800 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)

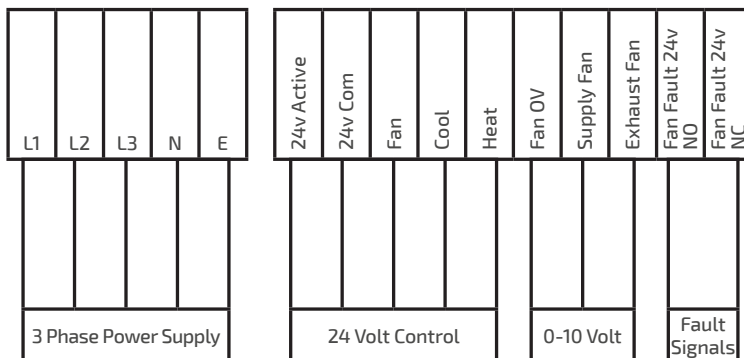


### Sound Power Levels

\*Sound power levels at 600 Pa Total Static Pressure and 800 L/s Total Air Volume

Inlet Rating dB (A)		Outlet Rating dB (A)	
63 Hz	38.5	63 Hz	39.9
125 Hz	58.0	125 Hz	57.8
250 Hz	63.2	250 Hz	61.7
500 Hz	66.8	500 Hz	69.9
1 K Hz	66.8	1K Hz	74.8
2K Hz	68.7	2K Hz	73.6
4K Hz	66.4	4K Hz	71.9
8K Hz	58.7	8K Hz	63.3
LwA	73.9	LwA	79.2

### Wiring Diagram



#### STANDARD INCLUSIONS

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

