

ERV-ENERGY RECOVERY



XEM External Mount Unit

XEM9000P3 Technical Data

Technical Specifications

Nominal Airflow

Supply Air (l/sec)	8000 - 9000
Exhaust Air (l/sec)	8000 - 9000
Return Air (l/sec)	8000 - 9000
Fresh Air (l/sec)	8000 - 9000

Supply Fan

Fan Type	EC Plug Fan
Motor Power (Watts)	4450
External Static (Pa)	250
Fan Diameter	450
Number of Fans	3

Exhaust Fan

Fan Type	EC Plug Fan
Motor Power (Watts)	4450
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 Fan Enable Relay	Included
Fan Fault Signal 24V Output	Included
Fan Control Status	Available
Switchboard	Yes
Circuit Breakers	Yes

Heat Exchanger

*Rated at standard conditions of 35.5° db/24.0° wb

Sensible Only

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 Panel
Finish	Surf Mist Colourbond
Insulation Value	R2.0
Side Access Panels	Included

Options

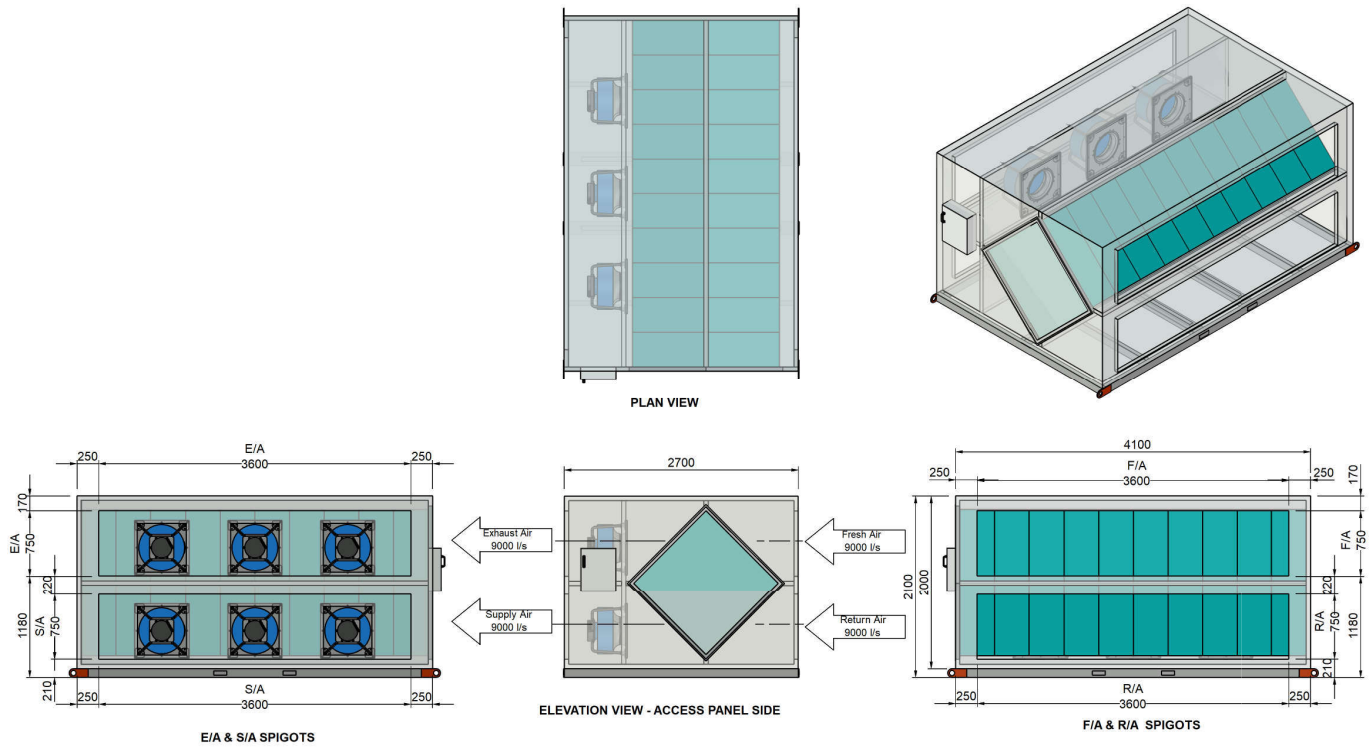
Chilled Water/Hot Water Coil	Available (Model XEC9000)
Return Air Bypass	Available

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Technical Drawings – XEM9000P3

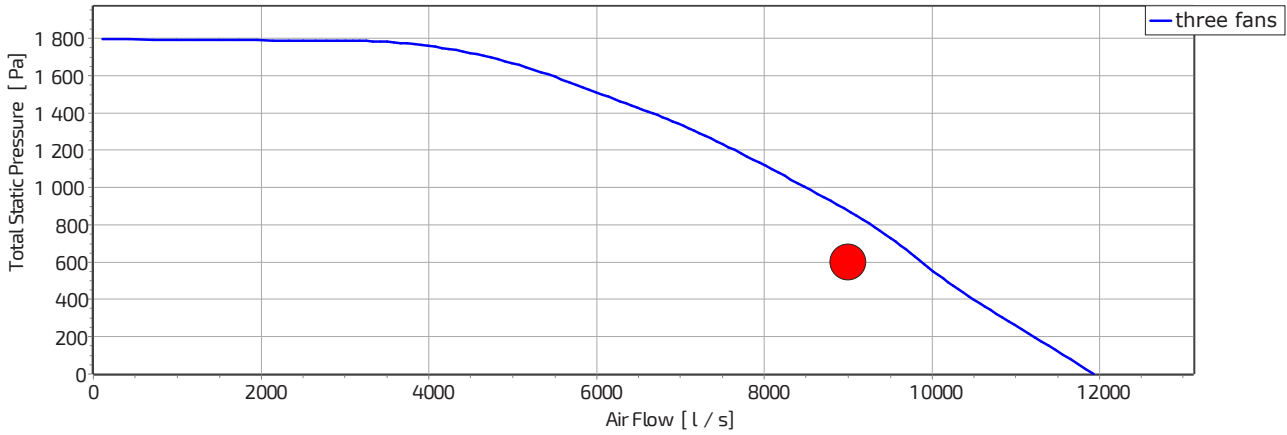


Dimension	
Height (mm)	2100
Width (mm)	4100
Length (mm)	2700
Weight (Kg)	1930
Access Clearance (mm)	1200 (Fan & Media Access)
Access Clearance (mm)	900 (Electrical Controls)

Duct Sizes	
Exhaust Air (mm)	3600 x 750
Return Air (mm)	3600 x 750
Supply Air (mm)	3600 x 750
Fresh Air (mm)	3600 x 750

Fan Performance Data

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

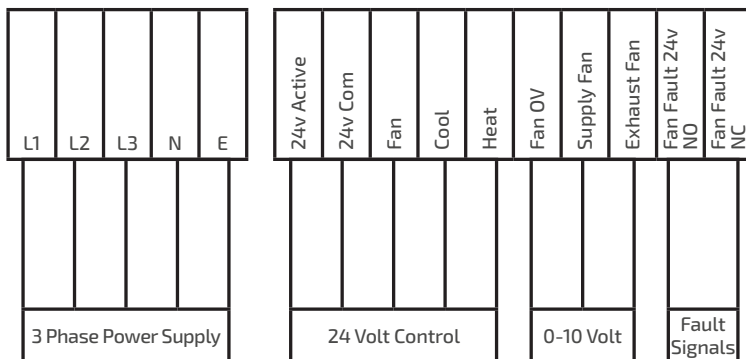


Sound Power Levels

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

Inlet Rating dB (A)		Outlet Rating dB (A)	
63 Hz	51.4	63 Hz	55.8
125 Hz	68.2	125 Hz	69.2
250 Hz	80.7	250 Hz	80.7
500 Hz	84.9	500 Hz	87.5
1 K Hz	83.4	1K Hz	91.9
2K Hz	85.6	2K Hz	92.8
4K Hz	85.1	4K Hz	88.6
8K Hz	89.8	8K Hz	89.2
LwA	93.6	LwA	97.5

Wiring Diagram



STANDARD INCLUSIONS

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

