

ERV-ENERGY RECOVERY



XEM External Mount Unit

XEM1500P3 Technical Data

Technical Specifications

Nominal Airflow

Supply Air (l/sec)	1300 - 1500
Exhaust Air (l/sec)	1300 - 1500
Return Air (l/sec)	1300 - 1500
Fresh Air (l/sec)	1300 - 1500

Supply Fan

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

Exhaust Fan

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

Electrical

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

Total Run Current (A)	4.4 - 4.4 - 4.4
Maximum Full Load (A)	6.6 - 6.6 - 6.6
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

	Enthalpy	Sensible
Corrosion Resistant Media	Not Available	Available
Face Velocity (m/sec)	2.28	1.9
Pressure Drop (Pa)	249	77.64
Kw Recovered (Cooling)*	24.5	12.66
Kw Recovered (Heating)*	29	15.26

Cabinet Construction

Casing	50mm Panel
Finish	Surf Mist Colourbond
Insulation Value	R2.0
Side Access Panels	Included

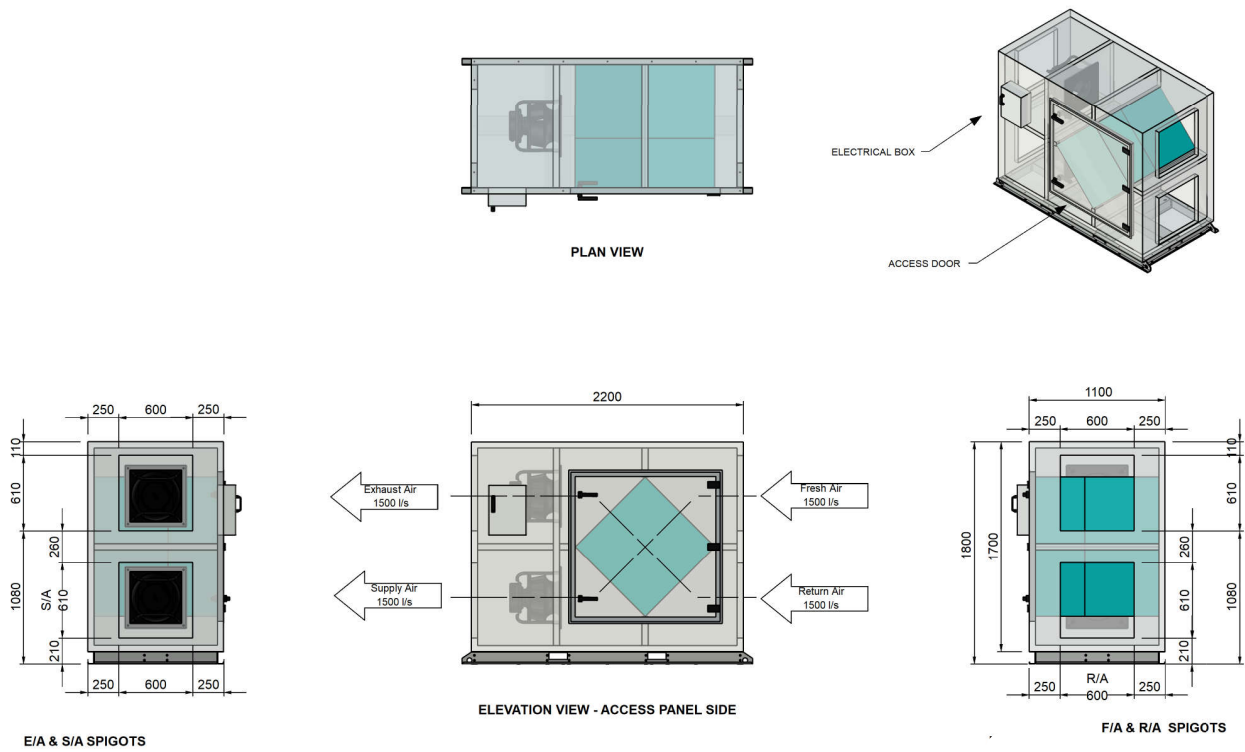
Options

Chilled Water/Hot Water Coil	Available (Model XEC1500)
Economy Cycle	Available (Model XEM1500P3-E)
Return Air Bypass	Available

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Technical Drawings – XEM1500P3



Dimension

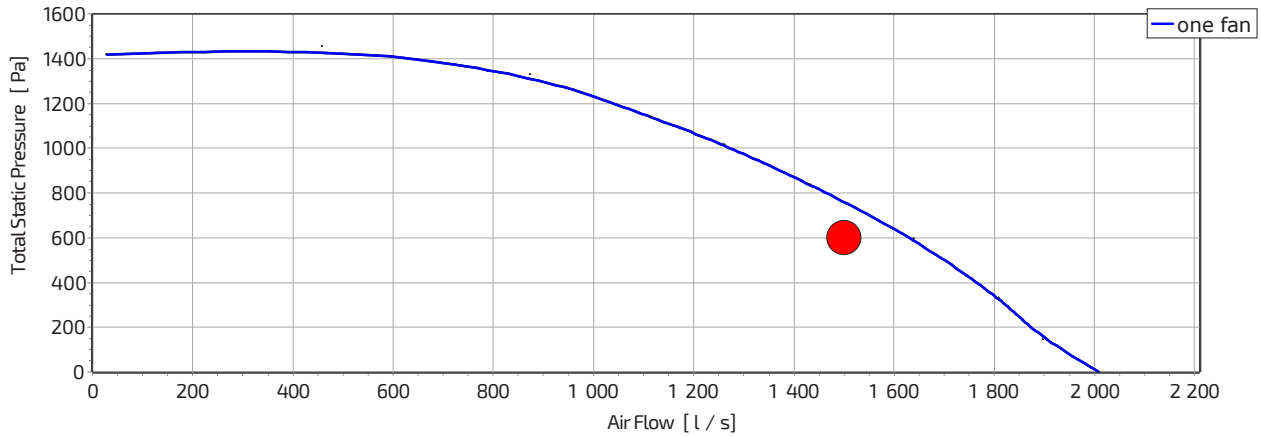
Height (mm)	1800
Width (mm)	1100
Length (mm)	2200
Weight (Kg)	670
Access Clearance (mm)	1200 (Fan & Media Access)

Duct Sizes

Exhaust Air (mm)	600 x 610
Return Air (mm)	600 x 610
Supply Air (mm)	600 x 610
Fresh Air (mm)	600 x 610

Fan Performance Data

*Duty point - 1500 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)

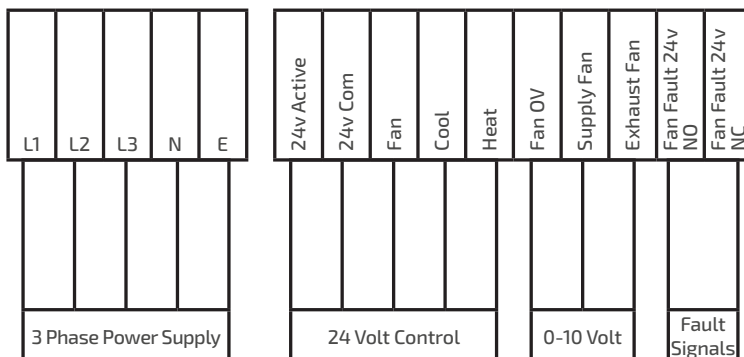


Sound Power Levels

*Sound power levels at 600 Pa Total Static Pressure and 1500 L/s Total Air Volume

Inlet Rating dB (A)		Outlet Rating dB (A)	
63 Hz	34.5	63 Hz	38.0
125 Hz	50.6	125 Hz	52.8
250 Hz	67.3	250 Hz	69.0
500 Hz	71.4	500 Hz	73.4
1 K Hz	70.9	1K Hz	79.0
2K Hz	74.5	2K Hz	80.0
4K Hz	77.8	4K Hz	81.9
8K Hz	72.6	8K Hz	76.0
LwA	81.4	LwA	86.1

Wiring Diagram



STANDARD INCLUSIONS

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

