

# ERV-ENERGY RECOVERY



## XEM External Mount Unit

### XEM3600P3 Technical Data

#### Technical Specifications

##### Nominal Airflow

Supply Air (l/sec)	3100 - 3600
Exhaust Air (l/sec)	3100 - 3600
Return Air (l/sec)	3100 - 3600
Fresh Air (l/sec)	3100 - 3600

##### Supply Fan

Fan Type	EC Plug Fan
Motor Power (Watts)	4450
External Static (Pa)	250
Fan Diameter	450
Number of Fans	2

##### Exhaust Fan

Fan Type	EC Plug Fan
Motor Power (Watts)	4450
External Static (Pa)	250
Fan Diameter	450
Number of Fans	2

##### Electrical

\*Cable sized to maximum FLA.  
Data presented for airflow at  
3600 L/s

Operating Supply Fan (A)	5.3 - 5.3 - 5.3
Operating Exhaust Fan (A)	5.3 - 5.3 - 5.3
Operating Run Current (A)	10.6 - 10.6 - 10.6
Maximum Full Load (A)	27.2 - 27.2 - 27.2
Volt/Phase	415V/3ph

##### 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 Media	Standard
Sensible Media	Available
Face Velocity (m/sec)	1.90
Pressure Drop (Pa)	155.5
Kw Recovered (Cooling)*	55.0
Kw Recovered (Heating)*	63.3

##### Cabinet Construction

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

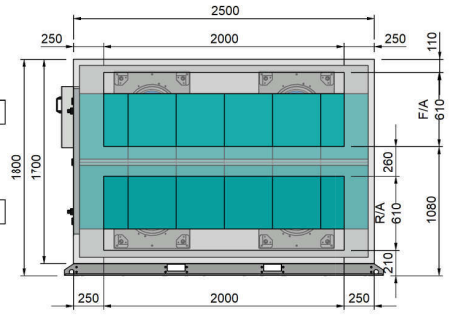
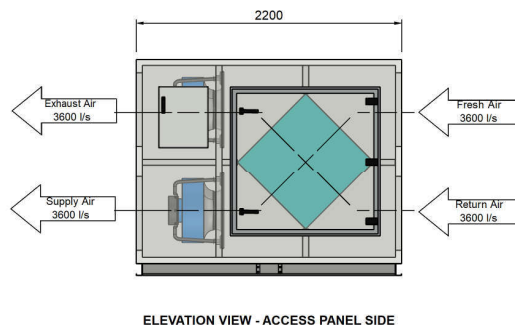
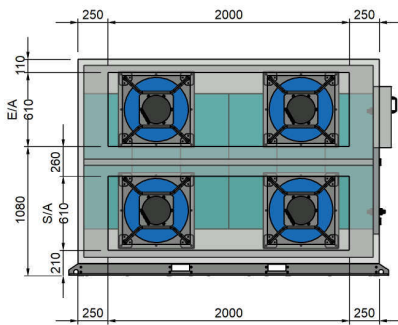
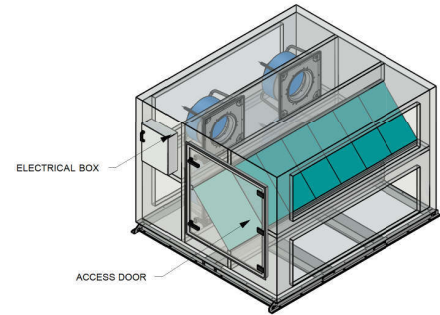
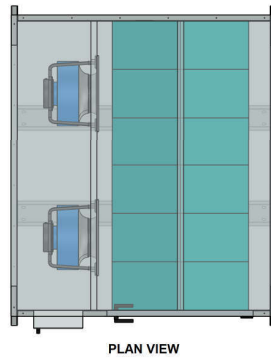
##### Options

Chilled Water/Hot Water Coil	Available (Model XEC3600)
Economy Cycle	Available (Model XEM3600P3-E)
Return Air Bypass	Available

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## XEM External Mount Unit – XEM3600P3 Technical Data

### Technical Drawings – XEM3600P3



#### Dimension

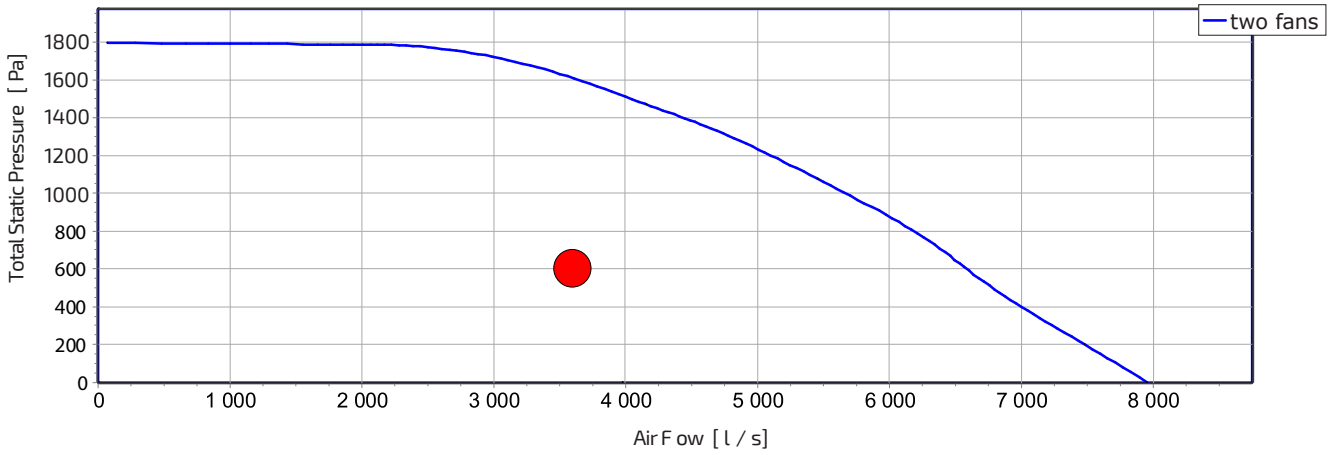
Height (mm)	1800
Width (mm)	2500
Length (mm)	2200
Weight (Kg)	935
Access Clearance (mm)	1200 (Fan & Media Access)
Access Clearance (mm)	900 (Electrical Controls)

#### Duct Sizes

Exhaust Air (mm)	2000 x 610
Return Air (mm)	2000 x 610
Supply Air (mm)	2000 x 610
Fresh Air (mm)	2000 x 610

### Fan Performance Data

\*Duty point - 3600 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)

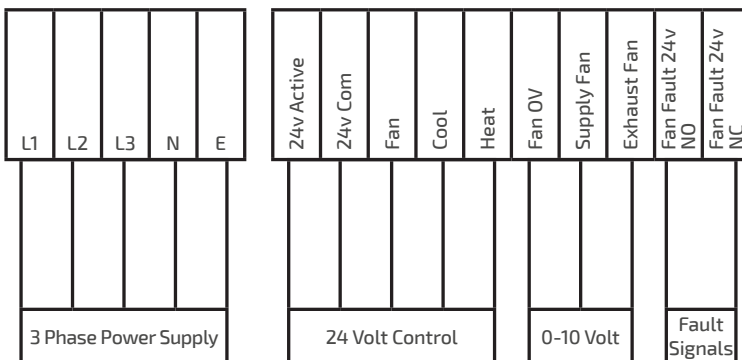


### Sound Power Levels

\*Sound power levels at 600 Pa Total Static Pressure and 3600 L/s Total Air Volume

Inlet Rating dB (A)		Outlet Rating dB (A)	
63 Hz	49.6	63 Hz	50.9
125 Hz	61.9	125 Hz	63.1
250 Hz	68.2	250 Hz	68.6
500 Hz	70.9	500 Hz	75.7
1 K Hz	72.8	1K Hz	80.7
2K Hz	73.2	2K Hz	79.9
4K Hz	74.5	4K Hz	78.2
8K Hz	64.4	8K Hz	69.8
LwA	79.6	LwA	85.3

### Wiring Diagram



#### STANDARD INCLUSIONS

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