

# ERV-ENERGY RECOVERY



## XEM External Mount Unit

### XEM800P3 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 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

\*Cable sized to maximum FLA.  
Data presented for airflow at 800 L/s

Operating Supply Fan (A)	1.3 - 1.3 - 1.3
Operating Exhaust Fan (A)	1.3 - 1.3 - 1.3
Operating Run Current (A)	2.6 - 2.6 - 2.6
Maximum Full Load (A)	6.0 - 6.0 - 6.0
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)	1.67
Pressure Drop (Pa)	105.1
Kw Recovered (Cooling)*	11.6
Kw Recovered (Heating)*	13.2

##### Cabinet Construction

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

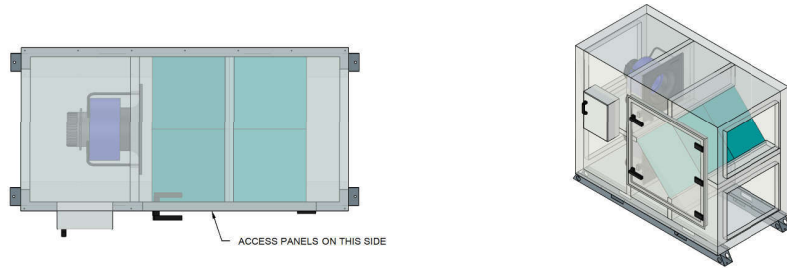
##### Options

Chilled Water/Hot Water Coil	Available (Model XEC800)
Economy Cycle	Available (Model XEM800P3-E)
Return Air Bypass	Available

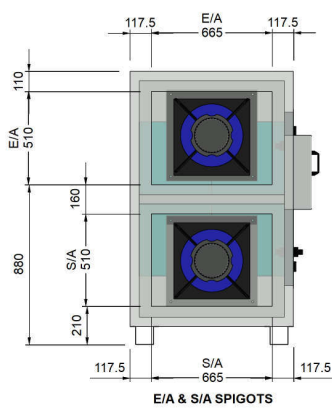
# ERV-ENERGY RECOVERY

## XEM External Mount Unit – XEM800P3 Technical Data

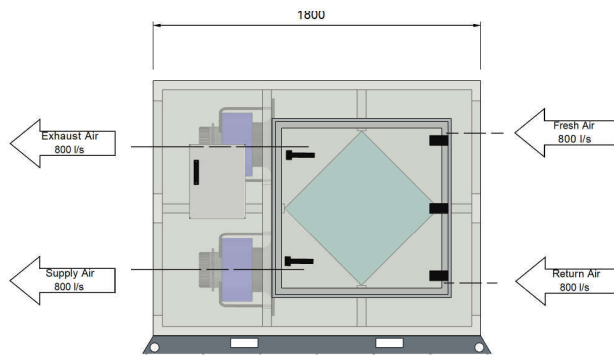
### Technical Drawings – XEM800P3



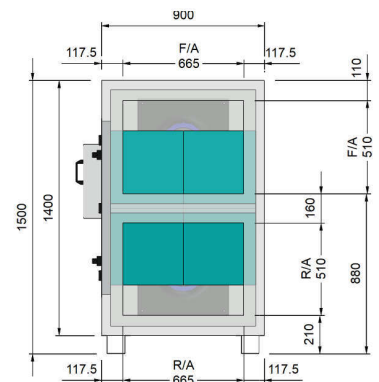
PLAN VIEW



E/A & S/A SPIGOTS



ELEVATION VIEW - ACCESS PANELS SIDE



F/A & R/A SPIGOTS

#### Dimension

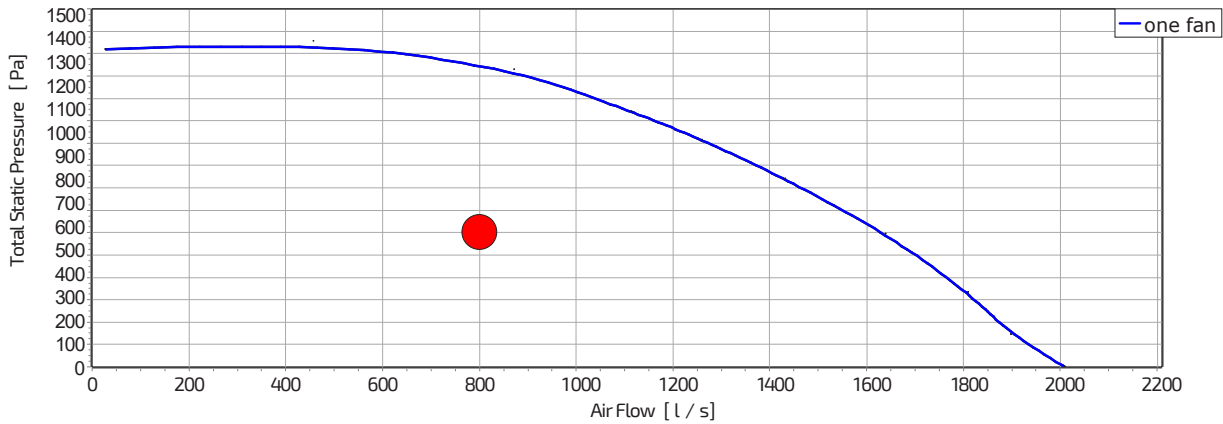
Height (mm)	1500
Width (mm)	900
Length (mm)	1800
Weight (Kg)	375
Access Clearance (mm)	1200 (Fan & Media Access)

#### Duct Sizes

Exhaust Air (mm)	665 x 510
Return Air (mm)	665 x 510
Supply Air (mm)	665 x 510
Fresh Air (mm)	665 x 510

### Fan Performance Data

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

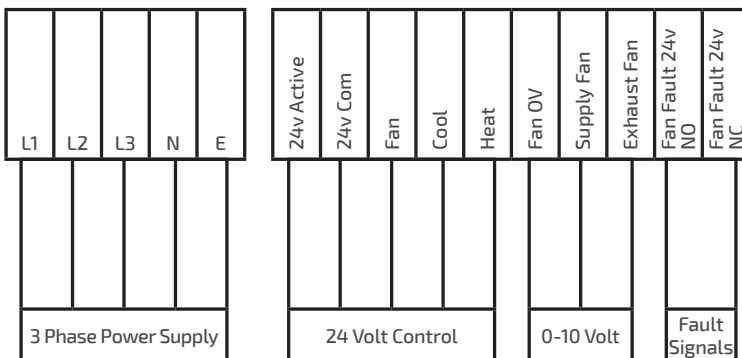


### Sound Power Levels

\*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

