

# ERV-ENERGY RECOVERY



## XEM External Mount Unit

### XEM400P1 Technical Data

#### Technical Specifications

##### Nominal Airflow

Supply Air (l/sec)	300 - 400
Exhaust Air (l/sec)	300 - 400
Return Air (l/sec)	300 - 400
Fresh Air (l/sec)	300 - 400

##### Supply Fan

Fan Type	EC Plug Fan
Motor Power (Watts)	750
External Static (Pa)	250
Fan Diameter	250
Number of Fans	1

##### Exhaust Fan

Fan Type	EC Plug Fan
Motor Power (Watts)	750
External Static (Pa)	250
Fan Diameter	250
Number of Fans	1

##### Electrical

\*Cable sized to maximum FLA.  
Data presented for airflow at 400 L/s

Operating Supply Fan (A)	1.9
Operating Exhaust Fan (A)	1.9
Operating Run Current (A)	3.8
Maximum Full Load (A)	6.6
Volt/Phase	240V/1ph

##### Controls

0-10V DC (Fan Control)	Included
24V AC Fan Enable Relay	Included
Fan Fault Signal 24V Output	Not 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)*	5.8
Kw Recovered (Heating)*	6.6

##### Cabinet Construction

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

##### Options

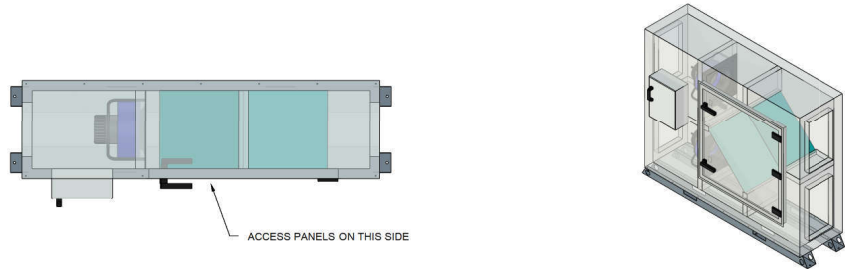
Chilled Water/Hot Water Coil	Available (Model XEC400)
Economy Cycle	Available (XEM400P1-E)
Return Air Bypass	Available

# ERV-ENERGY RECOVERY

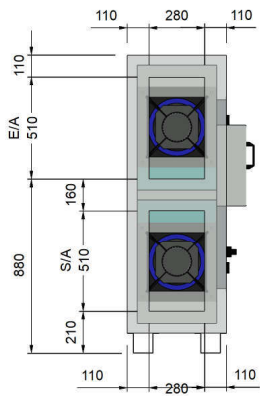
## XEM External Mount Unit – XEM400P1 Technical Data



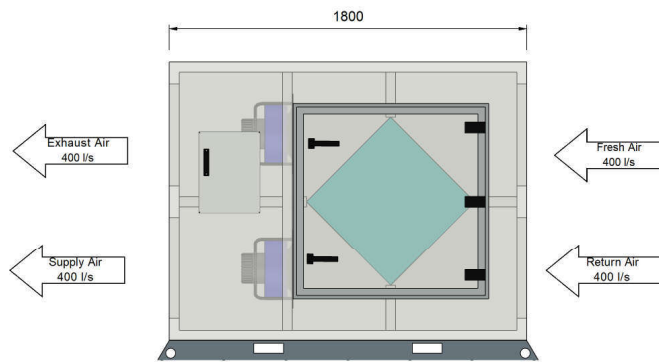
### Technical Drawings – XEM400P1



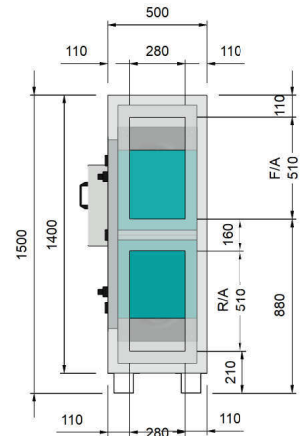
PLAN VIEW



E/A & S/A SPIGOTS



ELEVATION VIEW - ACCESS PANELS SIDE



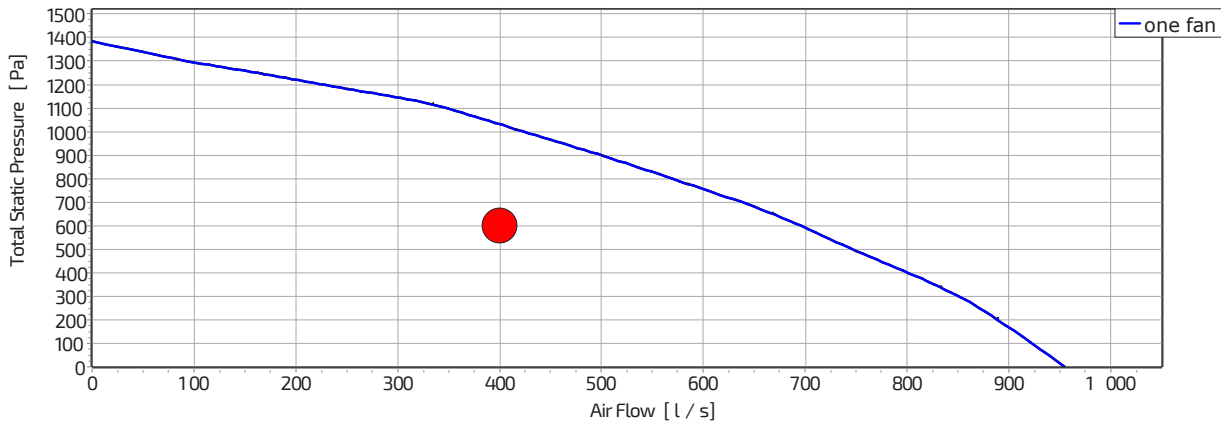
F/A & R/A SPIGOTS

Dimension	
Height (mm)	1500
Width (mm)	500
Length (mm)	1800
Weight (Kg)	295
Access Clearance (mm)	1200 (Fan & Media Access)

Duct Sizes	
Exhaust Air (mm)	510 x 280
Return Air (mm)	510 x 280
Supply Air (mm)	510 x 280
Fresh Air (mm)	510 x 280

### Fan Performance Data

\*Duty point – 400 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)

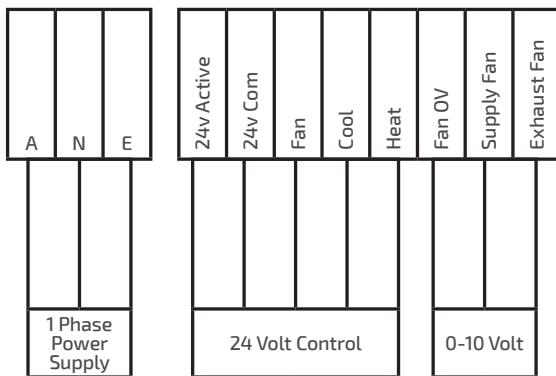


### Sound Power Levels

\*Sound power levels at 600 Pa Total Static Pressure and 400 L/s Total Air Volume

Inlet Rating dB (A)		Outlet Rating dB (A)	
63 Hz	47.6	63 Hz	43.4
125 Hz	56.8	125 Hz	54.2
250 Hz	62.6	250 Hz	68.7
500 Hz	66.4	500 Hz	69.5
1 K Hz	66.5	1K Hz	71.4
2K Hz	66.5	2K Hz	71.7
4K Hz	69.4	4K Hz	66.8
8K Hz	54.8	8K Hz	60.7
LwA	73.9	LwA	77.1

### Wiring Diagram



#### STANDARD INCLUSIONS

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

