### XCHANGE Energy Recovery



### XCM-COMPACT MULTIFLOW ERV

XCM225P1 Technical Data

### **Technical Specifications**

Nominal Airflow	
Supply Air (I/sec)	205
Return Air (I/sec)	205

Supply Fan	
Fan Type	EC Plug Fan
Fan Motor	EC External Rotor
Motor Power (Watts)	300
External Static (Pa)	215
Fan Diameter	190
Motor Start	Soft Start
Control Input	0-10V DC
Motor Protection	Thermal Overload

Exhaust Fan	
Fan Type	EC Plug Fan
Fan Motor	EC External Rotor
Motor Power (Watts)	300
External Static (Pa)	215
Fan Diameter	190
Motor Start	Soft Start
Control Input	0-10V DC
Motor Protection	Thermal Overload

Electrical	
Supply Fan (A)	1.0
Exhaust Fan (A)	1.0
Nominal Run Current (A)	2.0
Maximum Full Load (A)	3.0
Volt/Phase	240V/1ph
Connection	Lead & Plug

Controls	
0-10V DC (Fan Control)	Included
24V AC Control	Included
Fan Fault	Not Available

Heat Exchanger	*Rated at standard conditions of 35.5° db/24.0° wb
Enthalpy Media	Standard (Model XCM225P1E)
Sensible Media	Available (Model XCM225P1S)
Corrosion Resistant Media	Available
Velocity (m/sec)	1.41
Pressure Drop (Pa)	146.6
Kw Recovered (Cooling)*	3.60
Kw Recovered (Heating)*	4.81

Cabinet Construction		
Casing	Galvanised Metal	
Insulation Thickness (mm)	15/25	
Hanging Brackets	Included	

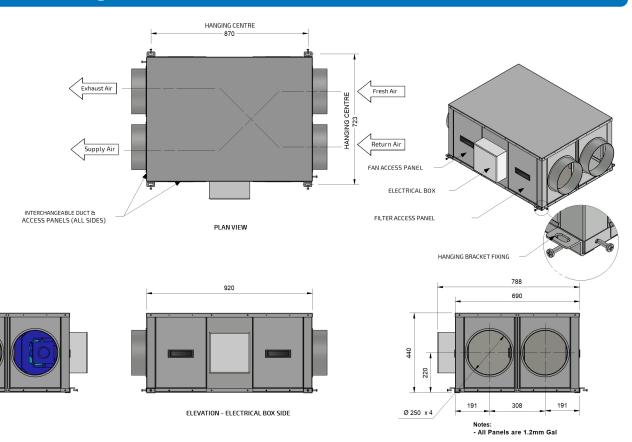
Filters	
Туре	45mm V Form Panel - G4
Disposable / Washable	Disposable
Size $L \times W \times D$ (mm)	395 x 395 x 45
Number of Filters	2

Options	
Internal Drain Tray	Available (Model XCM225P1-T)

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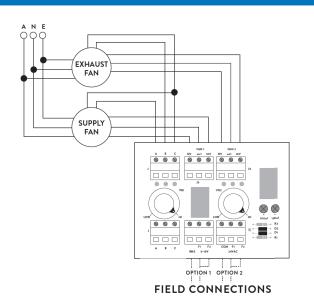
### Technical Drawings - XCM225P1



Dimensions	
Height (mm)	440
Width (mm)	690
Length (mm)	920
Weight (Kg)	80
Access Clearance (mm)	600 (Controls & Filter Access)
Access Clearance (mm)	600 (Filter Access)

Duct Sizes		
Exhaust Air (mm)	250 Ø	
Return Air (mm)	250 Ø	
Supply Air (mm)	250 Ø	
Fresh Air (mm)	250 Ø	

#### Wiring Diagram



#### OPTION 1

0-10V DC CONTROL VIA CONNECTION TO BMS 0V = STOP / 1.5V = START / 10V = FULL SPEED

#### OPTION 2

24V AC ENABLE REGULATE FAN SPEED VIA POTS EXTERNAL 24V PROVIDED BY OTHERS

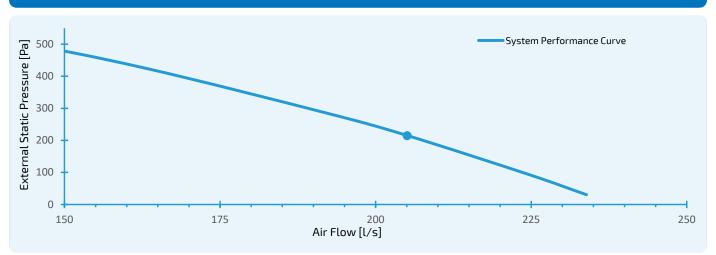
Do not turn main power on/off to enable/disable the unit operation. This must be done through the control circuit.

FAN FAULT NOT AVAILABLE.

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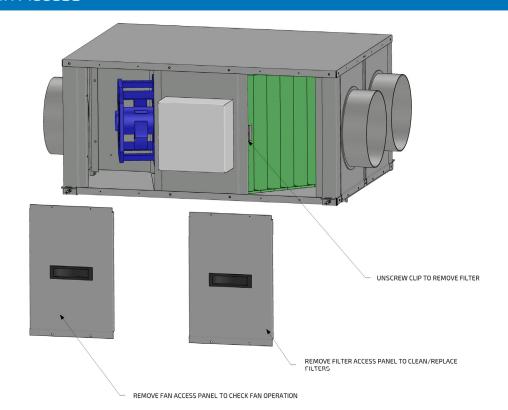
### Fan Performance Data



### Sound Power Levels\*

Inlet Rating dB		Outlet Rating dB	
63 Hz	69	63 Hz	71
125 Hz	62	125 Hz	64
250 Hz	68	250 Hz	70
500 Hz	78	500 Hz	80
1k Hz	70	1k Hz	72
2k Hz	62	2k Hz	64
4k Hz	53	4k Hz	55
8k Hz	62	8k Hz	64
LwA	79	LwA	81
* Sound Power Levels Recom	mended Operating Point.		

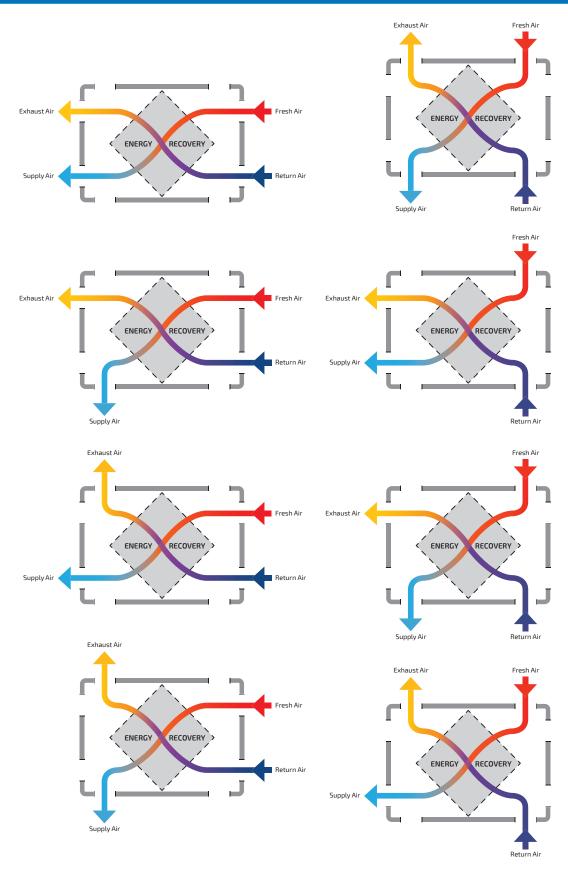
### Filter and Fan Access



## XCHANGE Energy Recovery XCM-COMPACT MULTIFLOW ERV - XCM225P1 Technical Data



### **Ductwork Connections**



**RETURN AIR:** Air that is drawn from conditioned areas.

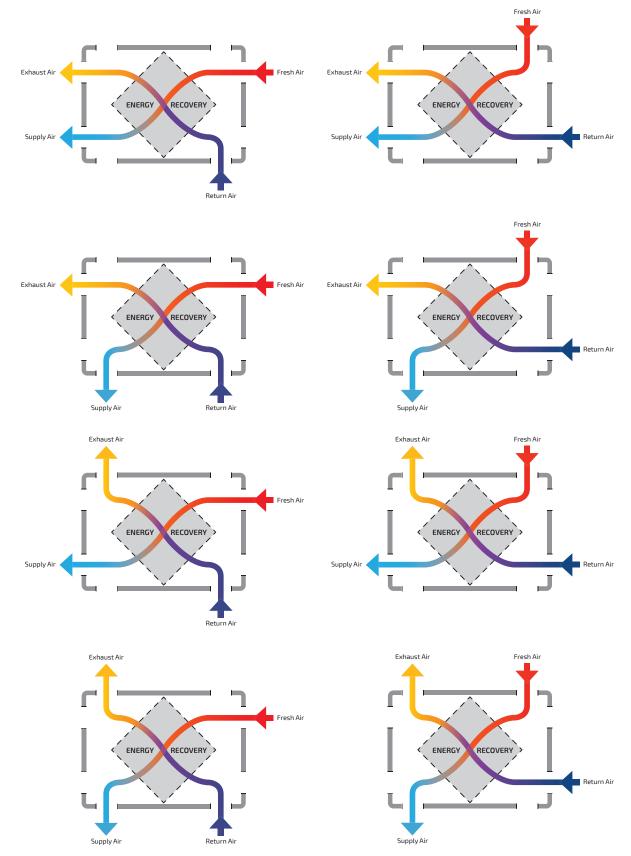
**EXHAUST AIR:** Ducted to outside the building or into the roof space if adequate ventilation to the outside air is available.

FRESH AIR: Use a fresh air cowl or grill to introduce fresh air.

**SUPPLY AIR:** Connect to the airconditioning system or directly into the conditioned area.

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