

XCHANGE Energy Recovery

XCM-COMPACT MULTIFLOW ERV

XCM1225P3 Technical Data



Technical Specifications

Nominal Airflow

Supply Air (l/sec)	1225
Return Air (l/sec)	1225

Supply Fan

Fan Type	EC Plug Fan
Fan Motor	EC External Rotor
Motor Power (Watts)	1900
External Static (Pa)	250
Fan Diameter	335
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)	1900
External Static (Pa)	250
Fan Diameter	355
Motor Start	Soft Start
Control Input	0-10V DC
Motor Protection	Thermal Overload

Electrical

Supply Fan (A)	2.6 - 2.6 - 2.6
Exhaust Fan (A)	2.6 - 2.6 - 2.6
Nominal Run Current (A)	5.2 - 5.2 - 5.2
Maximum Full Load (A)	6.5 - 6.5 - 6.5
Volt/Phase	415V/3ph

Controls

0-10V DC (Fan Control)	Included
24V AC Control	Included
Fan Fault	Included

Heat Exchanger

*Rated at standard conditions of 35.5° db/24.0° wb

Enthalpy Media	Standard (Model XCM1225P3E)
Sensible Media	Available (Model XCM1225P3S)
Corrosion Resistant Media	Available
Velocity (m/sec)	1.92
Pressure Drop (Pa)	162.6
Kw Recovered (Cooling)*	18.0
Kw Recovered (Heating)*	23.2

Cabinet Construction

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

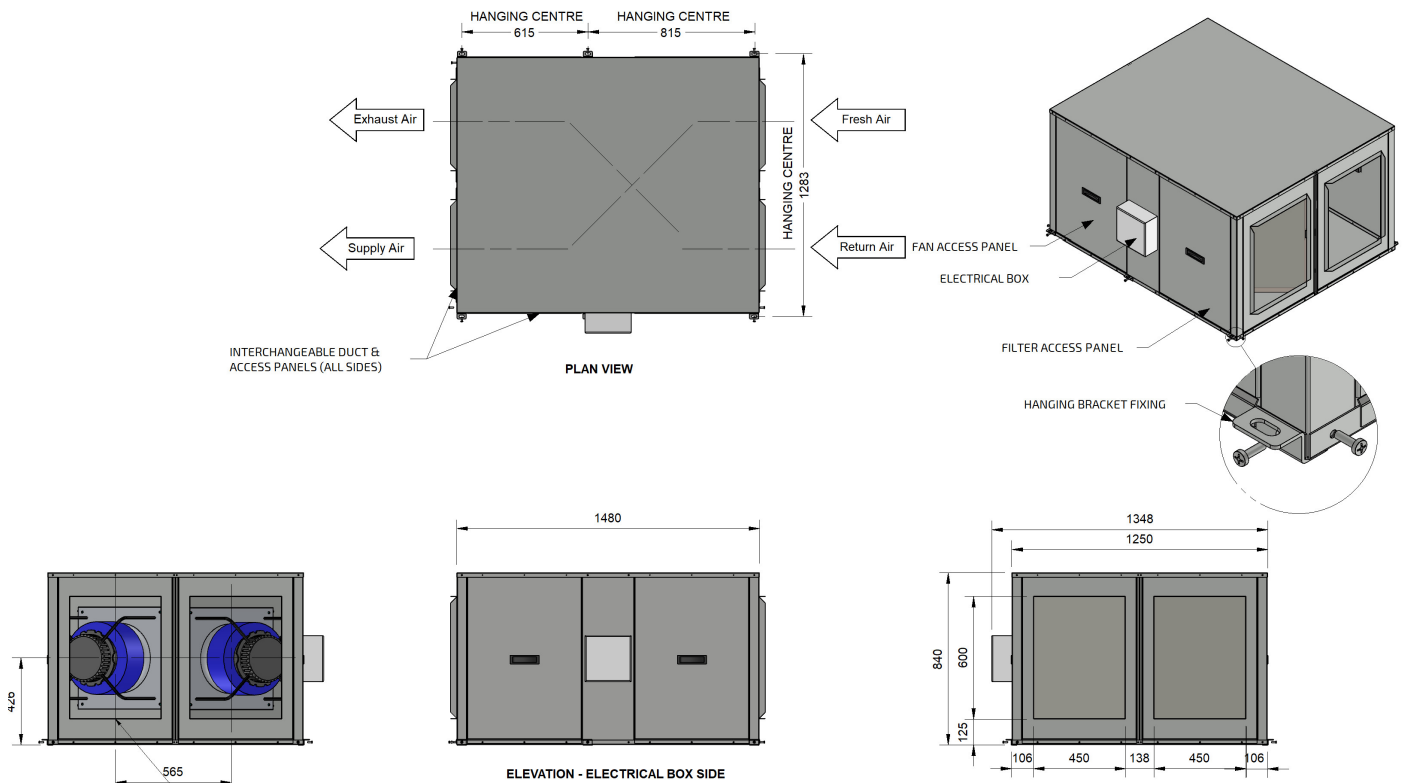
Filters

Type	45mm V Form Panel - G4
Disposable / Washable	Disposable
Size L x W x D (mm)	395 x 395 x 50
Number of Filters	8

Options

Hot Water Coil	Available (Model XCC1225)
Chilled Water Coil	Available (Model XCC1225)
Internal Drain Tray	Available (Model XCM1225P3-T)

Technical Drawings – XCM1225P3



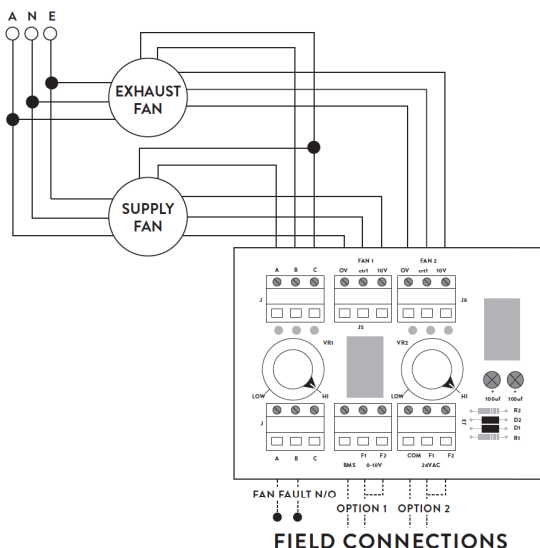
Dimensions

Height (mm)	840
Width (mm)	1250
Length (mm)	1480
Weight (Kg)	210
Access Clearance (mm)	600 (Controls & Filter Access)
Access Clearance (mm)	600 (Filter Access)

Duct Sizes

Exhaust Air (mm)	450 x 600
Return Air (mm)	450 x 600
Supply Air (mm)	450 x 600
Fresh Air (mm)	450 x 600

Wiring Diagram

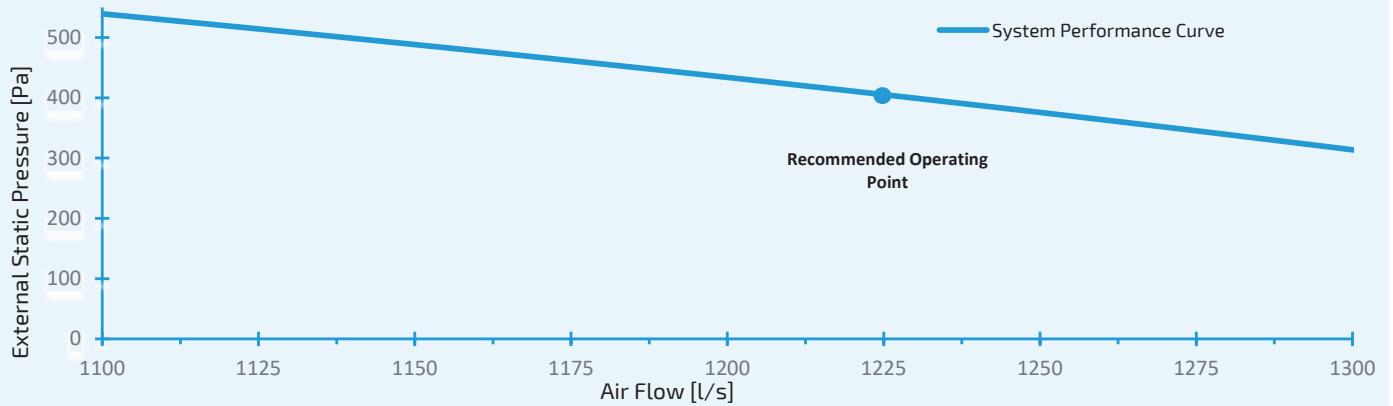


OPTION 1
0-10V DC CONTROL VIA CONNECTION TO BMS
0V = STOP / 1.5V = START / 10V = FULL SPEED

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 Performance Data

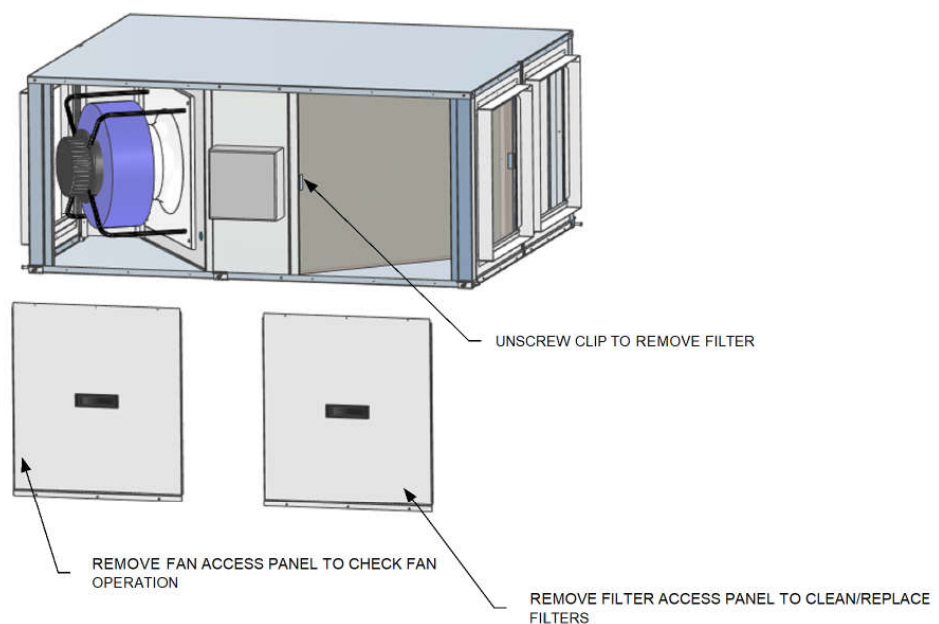


Sound Power Levels*

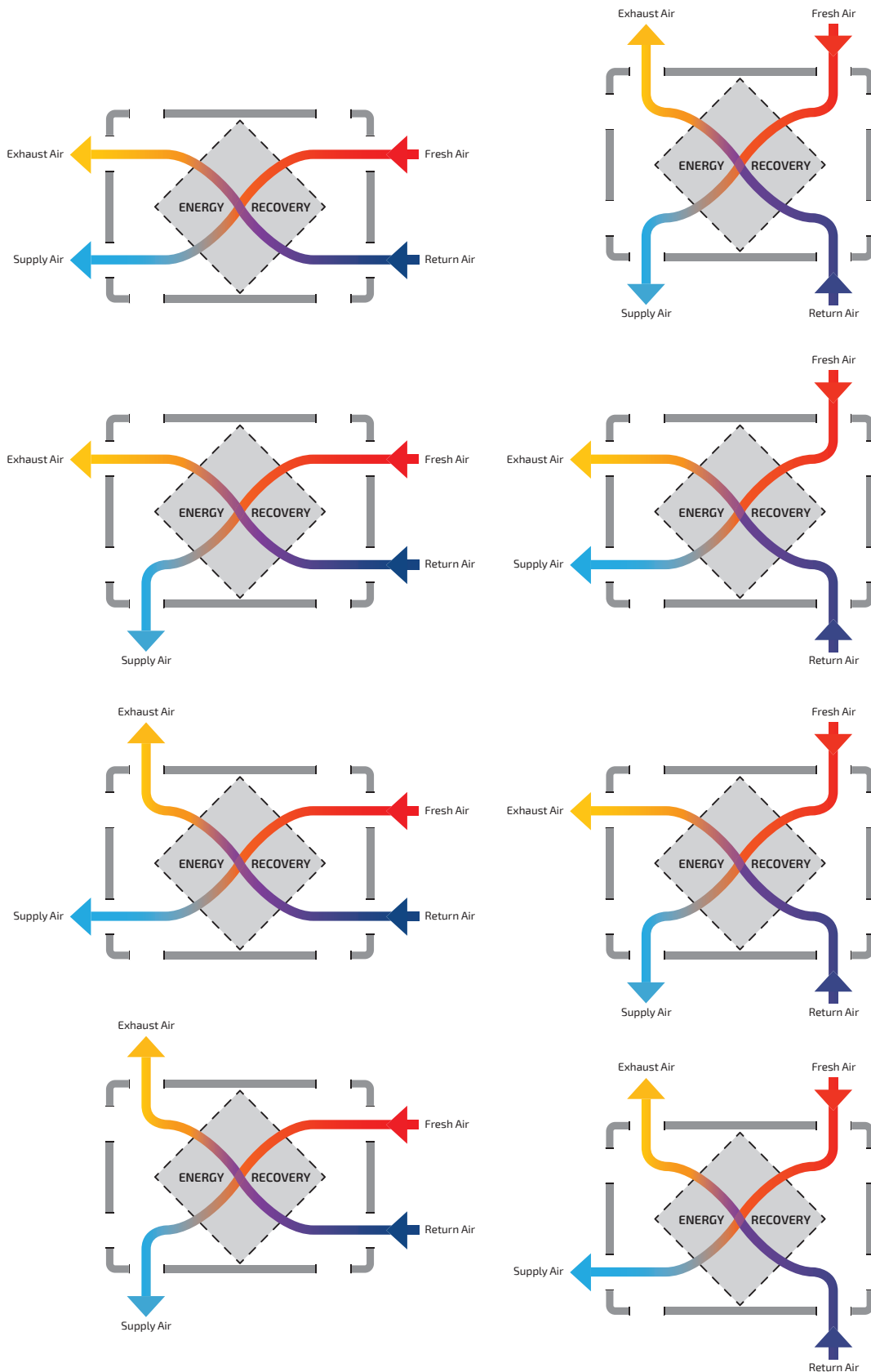
Inlet Rating dB		Outlet Rating dB	
63 Hz	71.8	63 Hz	73.3
125 Hz	66.3	125 Hz	68
250 Hz	81.3	250 Hz	80
500 Hz	75.7	500 Hz	79.5
1k Hz	71.6	1k Hz	81.7
2k Hz	73.4	2k Hz	80.6
4k Hz	69.3	4k Hz	74.7
8k Hz	67.8	8k Hz	71.5
LwA	79.8	LwA	86.1

* Sound Power Levels Recommended Operating Point.

Filter and Fan Access



Ductwork Connections



RETURN AIR: Air that is drawn from conditioned areas.

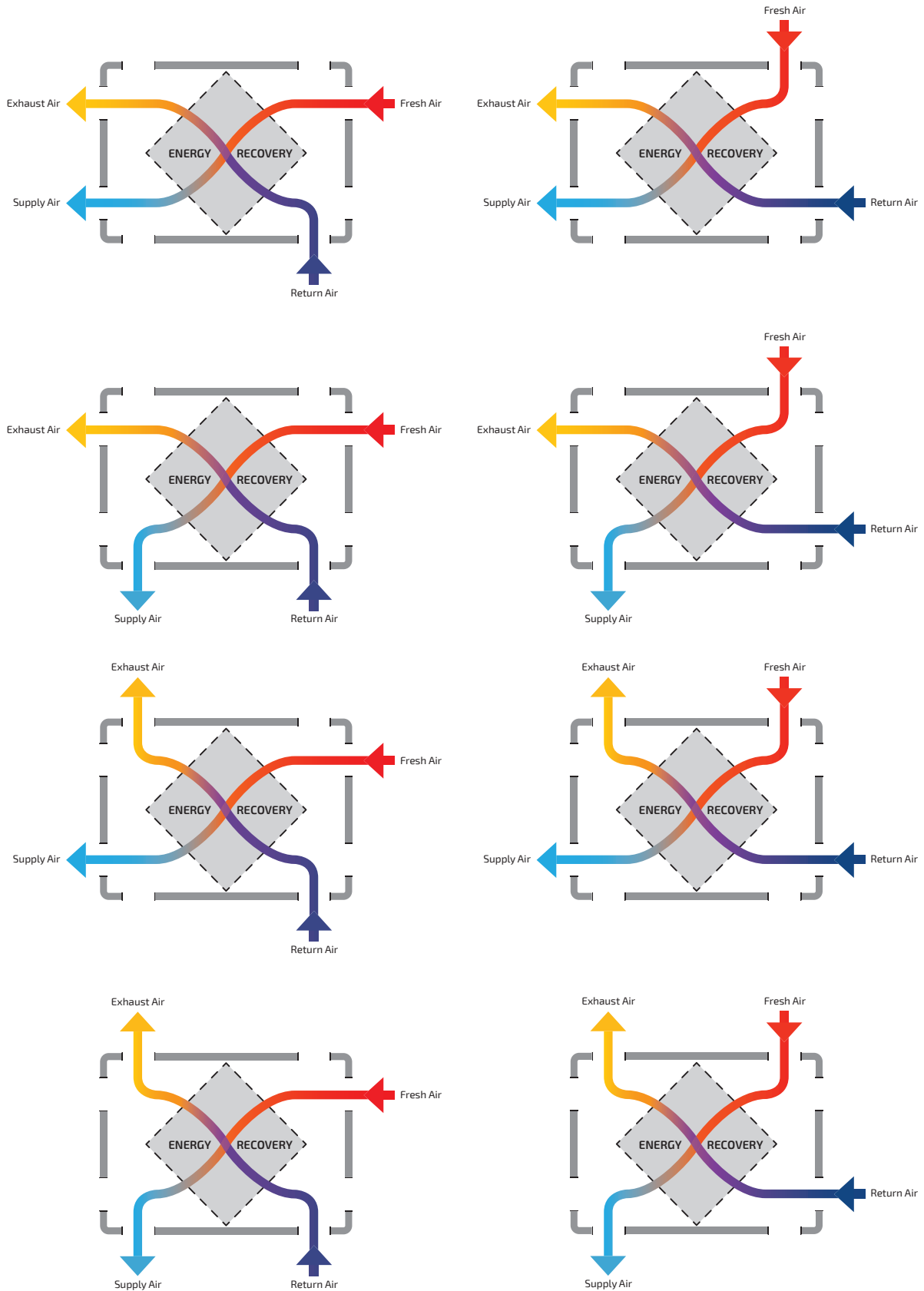
EXHAUST AIR: Ducted to outside the building or into the roof space if adequate ventilation to the outside air is available.

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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