

XCHANGE Energy Recovery

XCM-COMPACT MULTIFLOW ERV

XCM625C1 Technical Data



Technical Specifications

Nominal Airflow

Supply Air (l/sec)	625
Return Air (l/sec)	625

Supply Fan

Fan Type	Forward Curved Centrifugal
Fan Motor	Direct Drive
Motor Power (Watts)	750
External Static (Pa)	200
Speeds	3
Max Fan Speed (rpm)	1350
Motor Protection	Thermal Overload

Exhaust Fan

Fan Type	Forward Curved Centrifugal
Fan Motor	Direct Drive
Motor Power (Watts)	750
External Static (Pa)	200
Speeds	3
Max Fan Speed (rpm)	1350
Motor Protection	Thermal Overload

Electrical

Supply Fan (A)	4.9
Exhaust Fan (A)	4.9
Nominal Run Current (A)	9.8
Maximum Full Load (A)	13.0
Volt/Phase	240V/1ph
Connection	Lead & Plug

Controls

240V Controls	Included
Fan Fault	Not available

Heat Exchanger

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

Enthalpy Media	Standard (Model XCM625C1E)
Sensible Media	Available (Model XCM625C1S)
Corrosion Resistant Media	Available
Velocity (m/sec)	1.95
Pressure Drop (Pa)	162.6
Kw Recovered (Cooling)*	9.03
Kw Recovered (Heating)*	11.65

Cabinet Construction

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

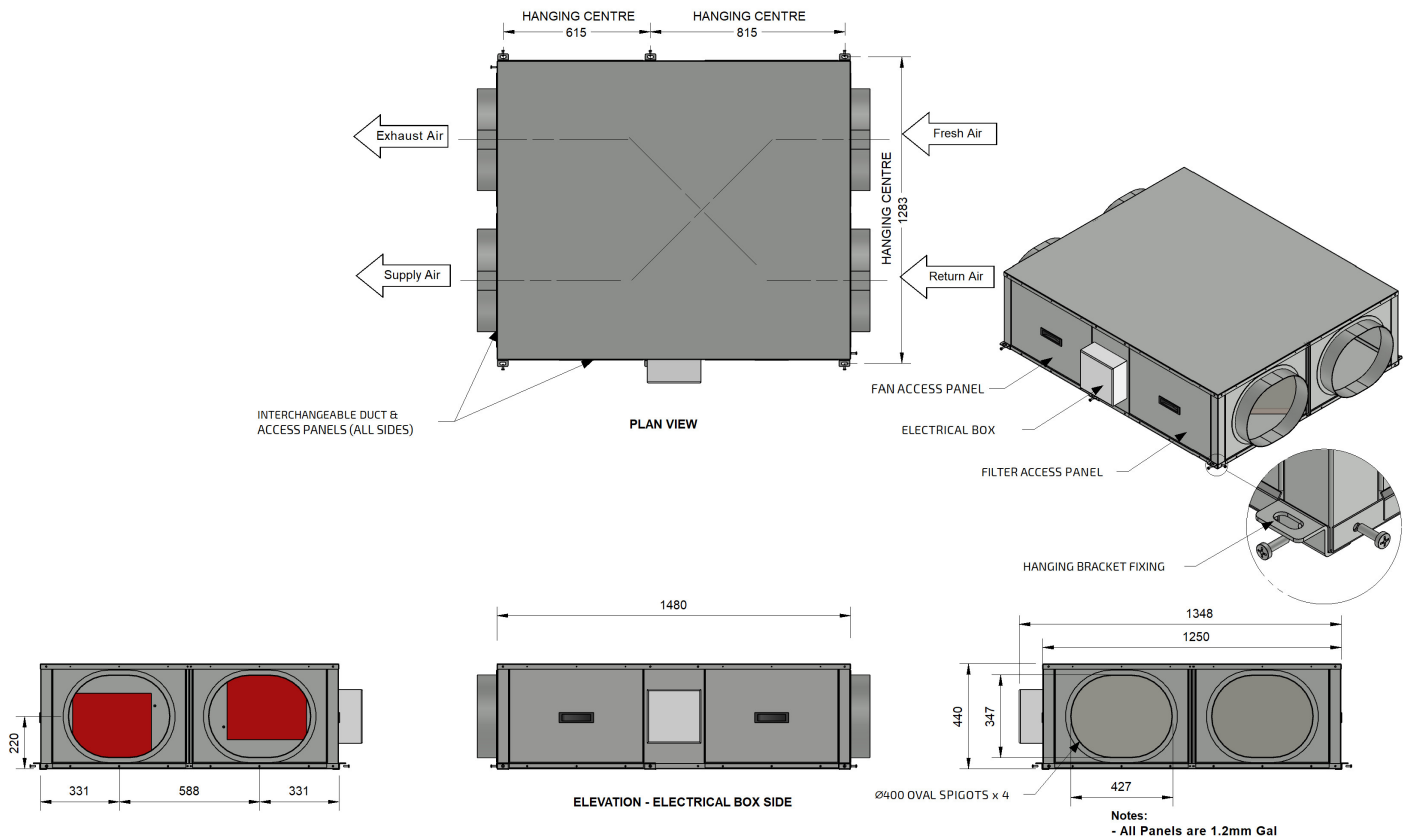
Filters

Type	45mm V Form Panel - G4
Disposable / Washable	Disposable
Size L x W x D (mm)	395 x 395 x 50
Number of Filters	4

Options

Internal Drain Tray	Available (Model XCM625C1-T)
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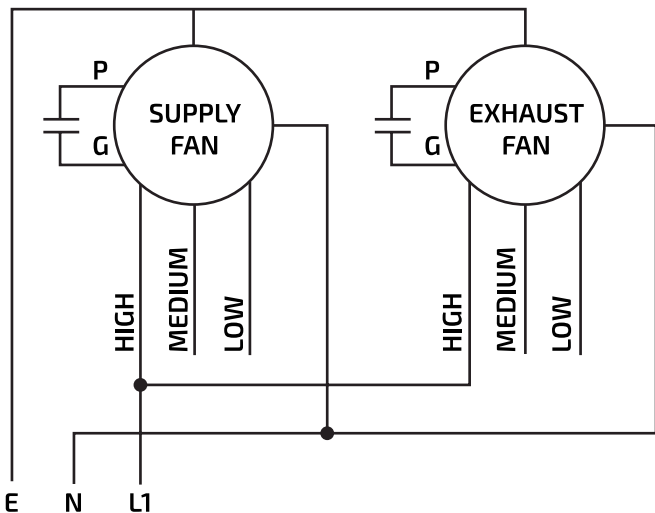
Technical Drawings – XCM625C1



Dimensions	
Height (mm)	440
Width (mm)	1250
Length (mm)	1480
Weight (Kg)	120
Access Clearance (mm)	600 (Controls & Filter Access)
Access Clearance (mm)	600 (Filter Access)

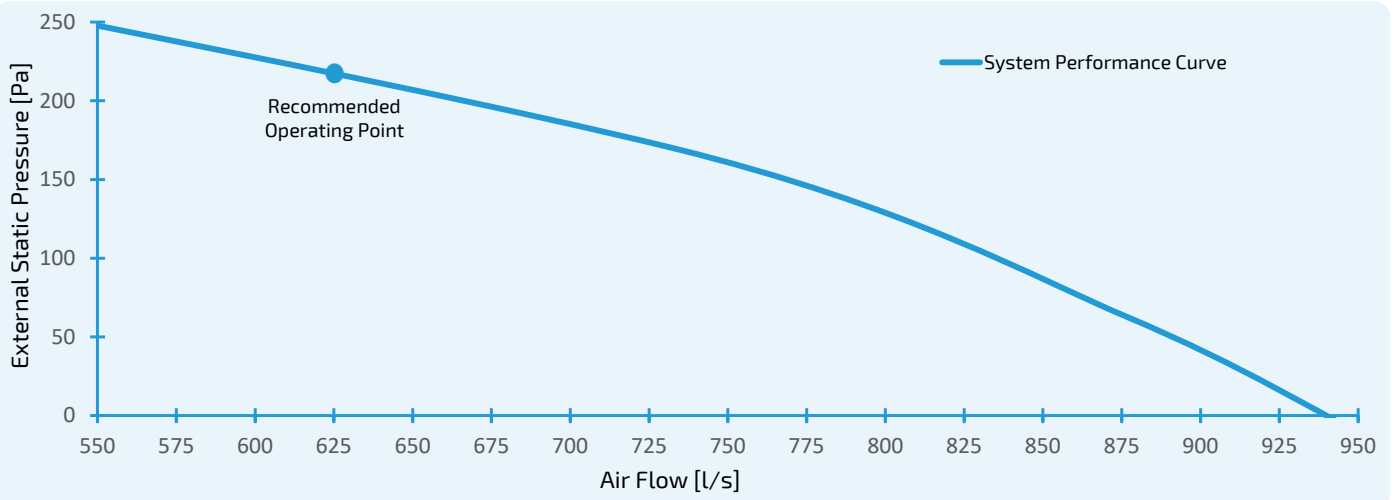
Duct Sizes	
Exhaust Air (mm)	400 Ø Oval
Return Air (mm)	400 Ø Oval
Supply Air (mm)	400 Ø Oval
Fresh Air (mm)	400 Ø Oval

Wiring Diagram



Electrical Connections		
E	Earth	Green/Yellow
N	Neutral	Blue
L	Active	Brown
H	High Speed	Brown
M	Medium Speed	Grey/Orange
L	Low Speed	White

Fan Performance Data



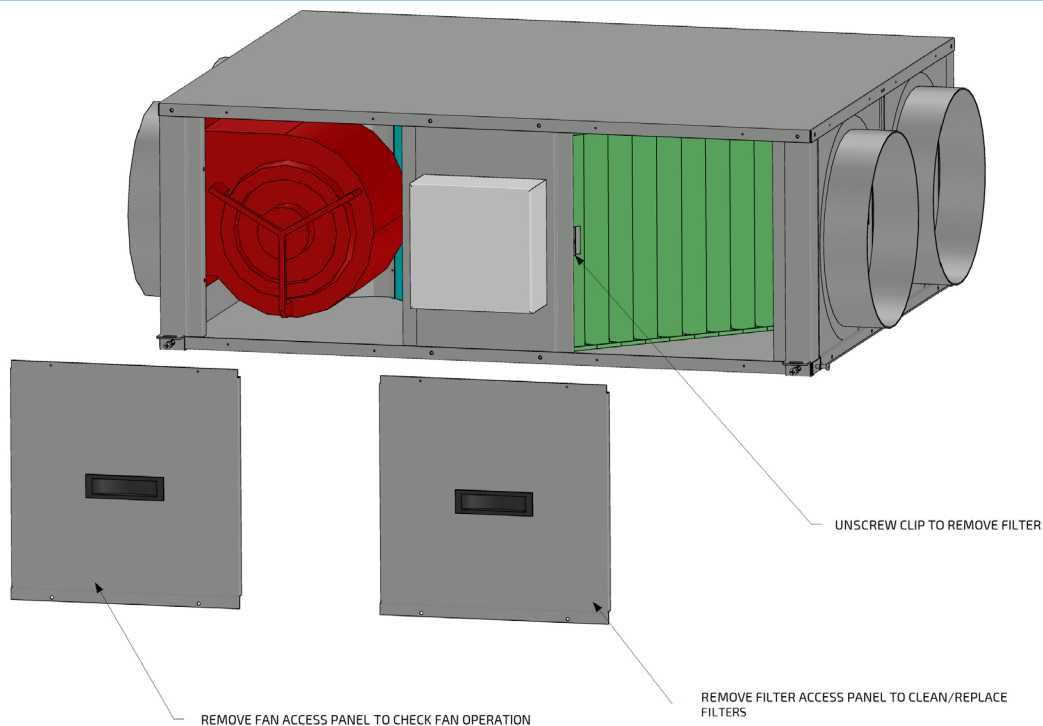
Sound Power Levels*

Outlet Rating dB

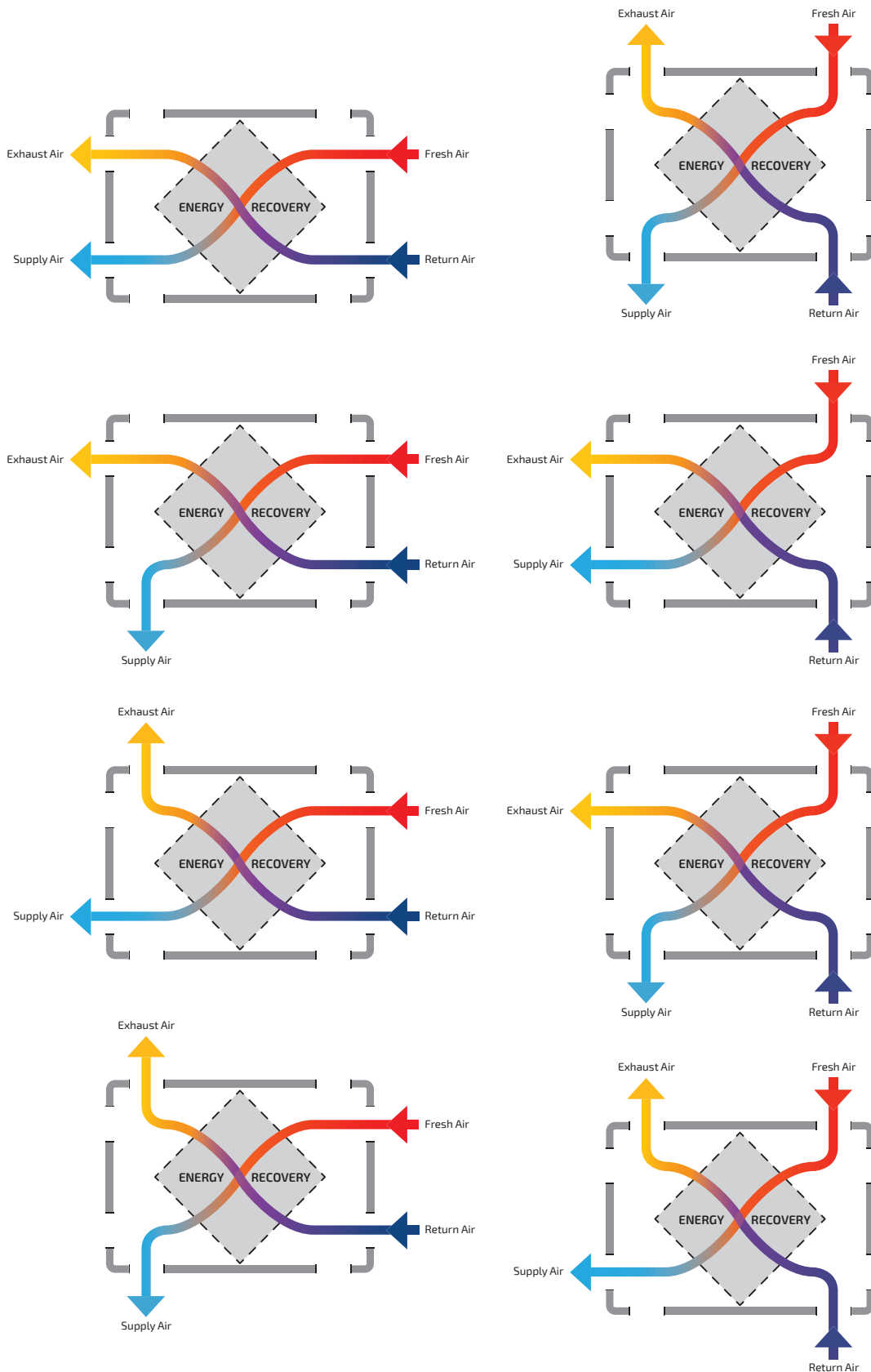
63 Hz	74
125 Hz	85
250 Hz	87
500 Hz	78
1k Hz	76
2k Hz	74
4k Hz	71
8k Hz	67
LwA	83

* Sound Power Levels Recommended Operating Point.

Filter and Fan Access



Ductwork Connections



RETURN AIR: Air that is drawn from conditioned areas.

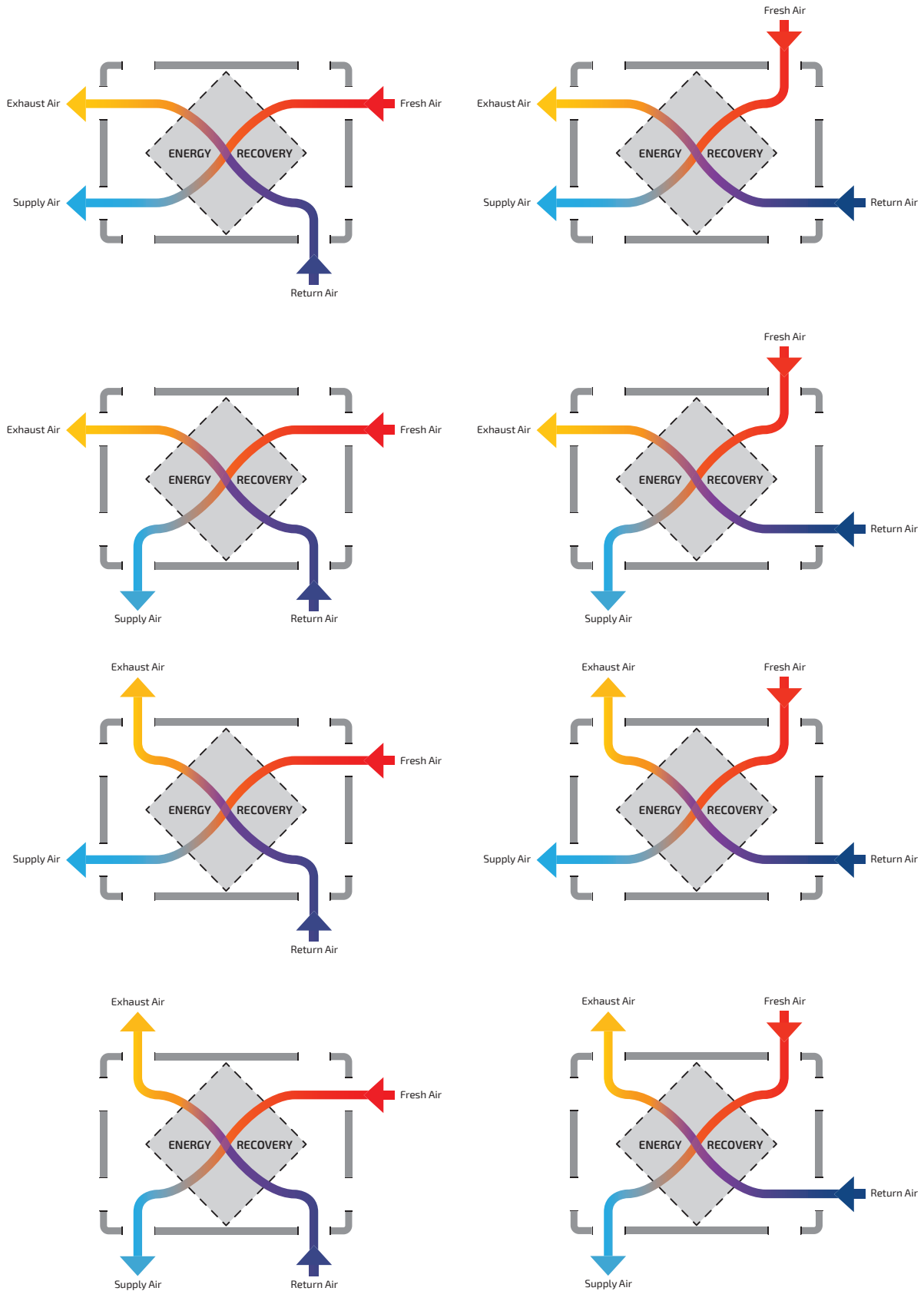
EXHAUST AIR: Ducted to outside the building or into the roof space if adequate ventilation to the outside air is available.

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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