

XCHANGE Energy Recovery

XCM-COMPACT MULTIFLOW ERV

XCM425C1 Technical Data



Technical Specifications

Nominal Airflow

Supply Air (l/sec)	425
Return Air (l/sec)	425

Supply Fan

Fan Type	Forward Curved Centrifugal
Fan Motor	Direct Drive
Motor Power (Watts)	425
External Static (Pa)	140
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)	425
External Static (Pa)	140
Speeds	3
Max Fan Speed (rpm)	1350
Motor Protection	Thermal Overload

Electrical

Supply Fan (A)	3.6
Exhaust Fan (A)	3.6
Nominal Run Current (A)	7.2
Maximum Full Load (A)	8.0
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 XCM425C1E)
Sensible Media	Available (Model XCM425C1S)
Corrosion Resistant Media	Available
Velocity (m/sec)	1.77
Pressure Drop (Pa)	112.3
Kw Recovered (Cooling)*	5.79
Kw Recovered (Heating)*	7.43

Cabinet Construction

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

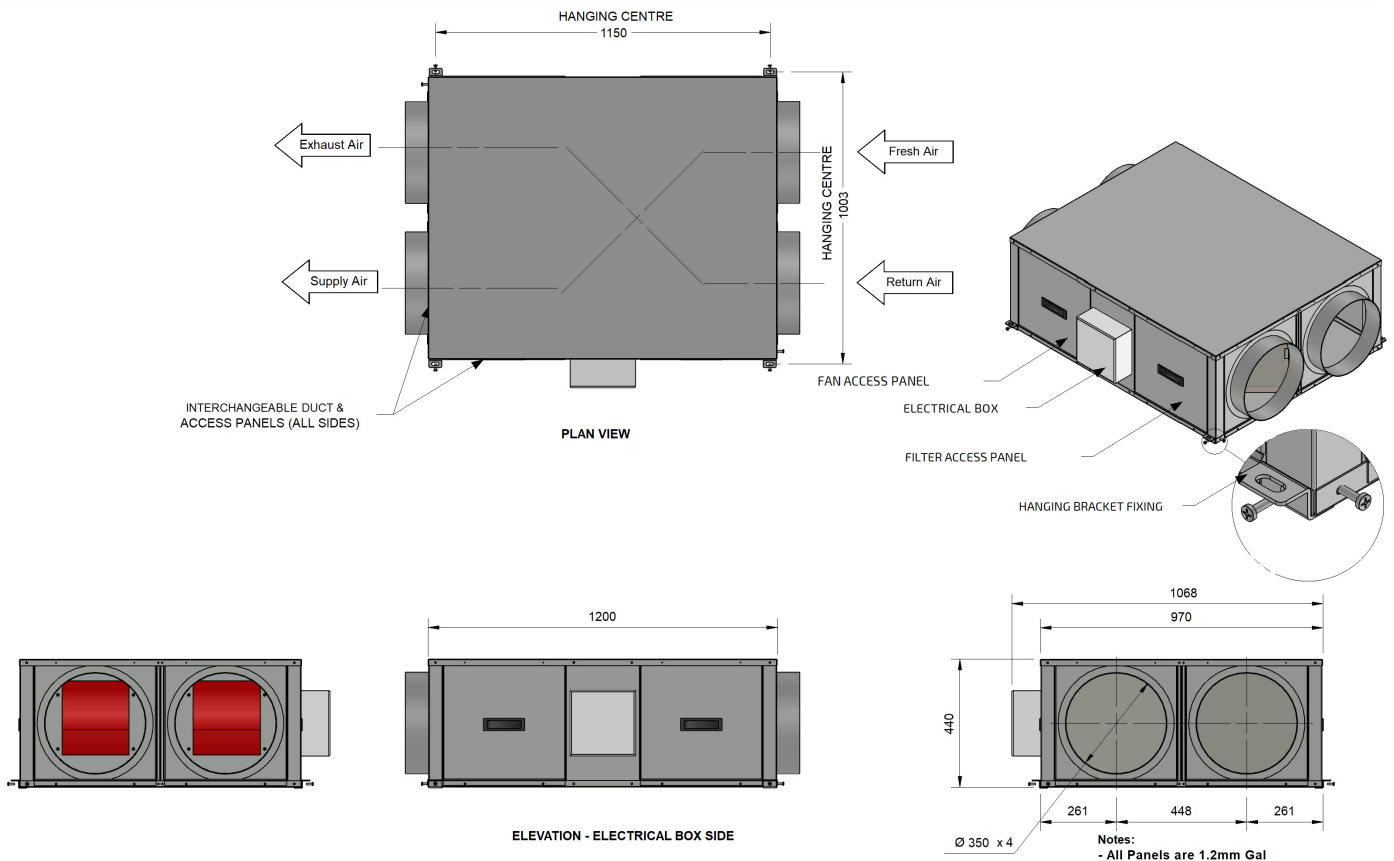
Filters

Type	45mm V Form Panel - G4
Disposable / Washable	Disposable
Size L x W x D (mm)	595 x 395 x 45
Number of Filters	2

Options

Internal Drain Tray	Available (Model XCM425C1-T)
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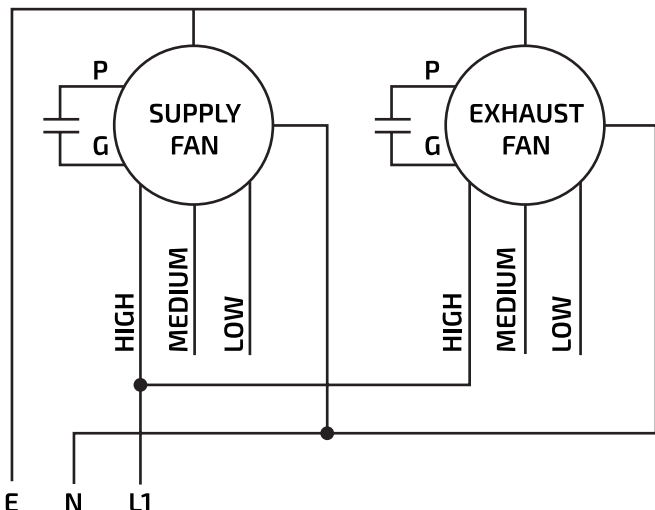
Technical Drawings – XCM425C1



Dimensions	
Height (mm)	440
Width (mm)	970
Length (mm)	1200
Weight (Kg)	100
Access Clearance (mm)	600 (Controls & Filter Access)
Access Clearance (mm)	600 (Filter Access)

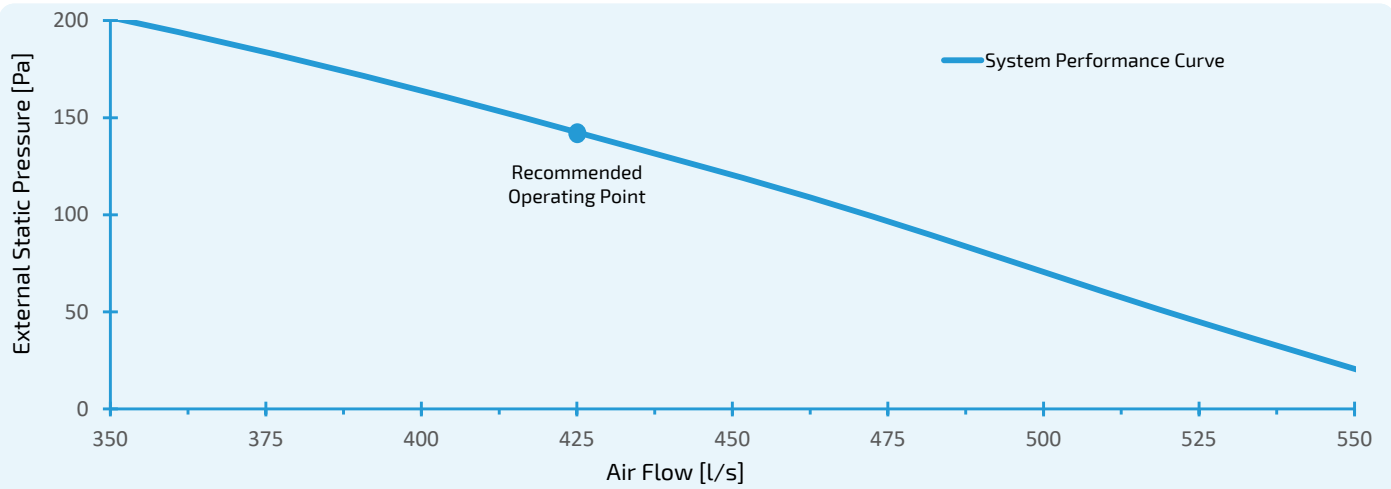
Duct Sizes	
Exhaust Air (mm)	350 Ø
Return Air (mm)	350 Ø
Supply Air (mm)	350 Ø
Fresh Air (mm)	350 Ø

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



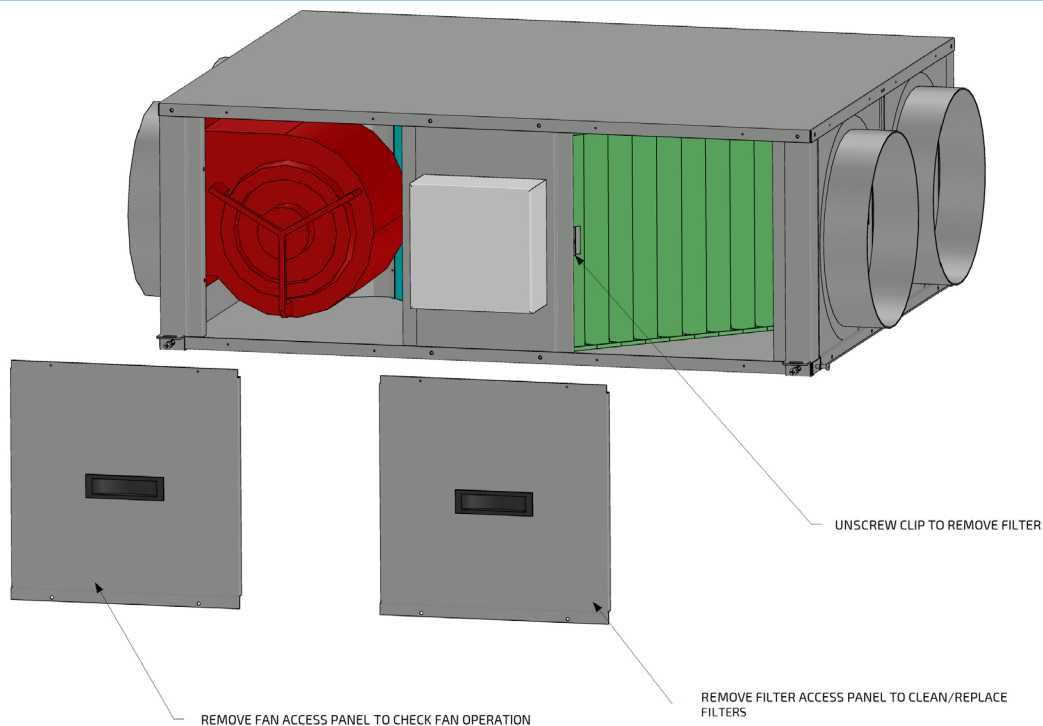
Sound Power Levels*

Outlet Rating dB

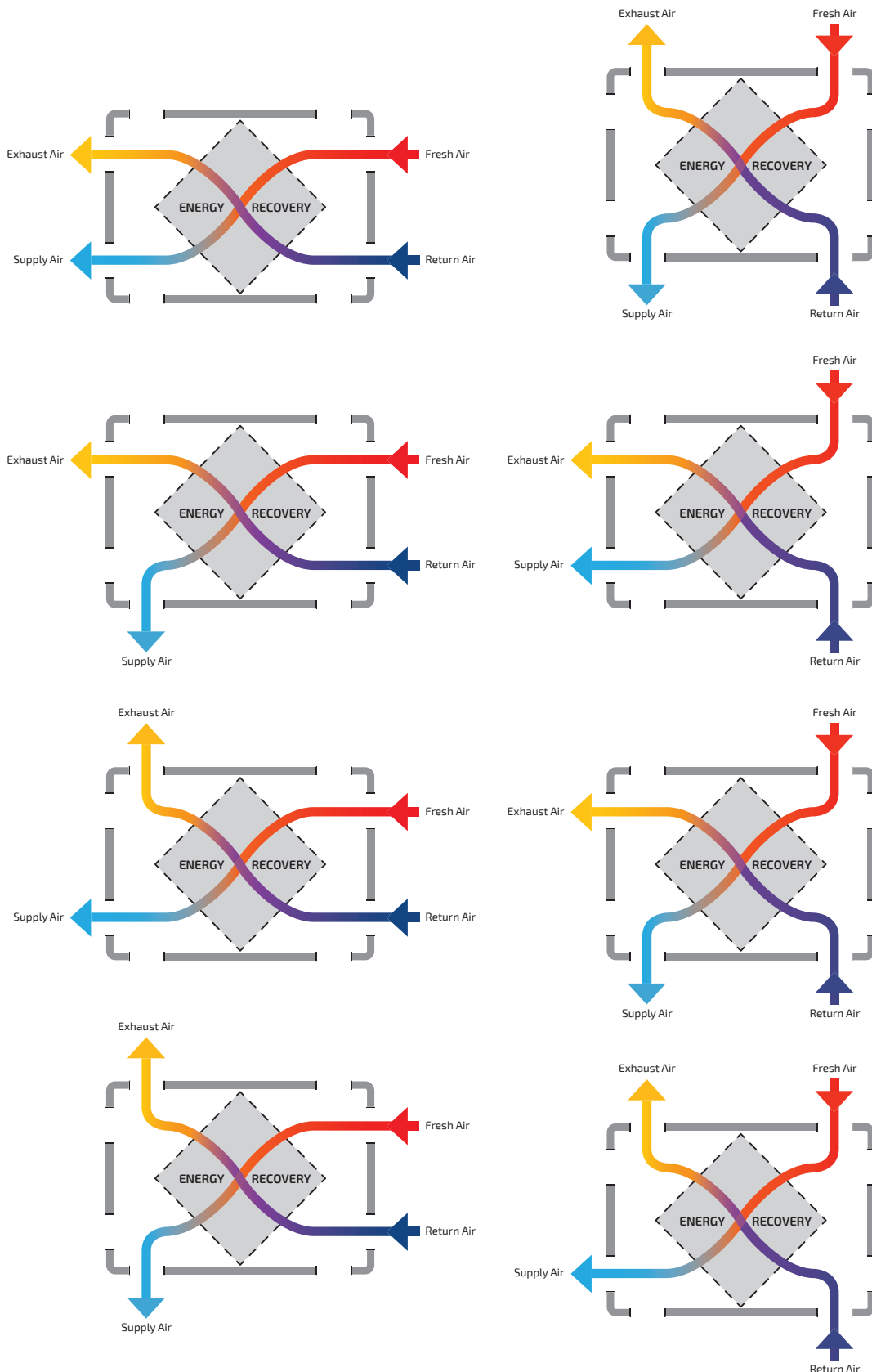
63 Hz	64
125 Hz	76
250 Hz	85
500 Hz	78
1k Hz	75
2k Hz	74
4k Hz	70
8k Hz	67
LwA	82

* Sound Power Levels Recommended Operating Point.

Filter and Fan Access



Ductwork Connections



RETURN AIR: Air that is drawn from conditioned areas.

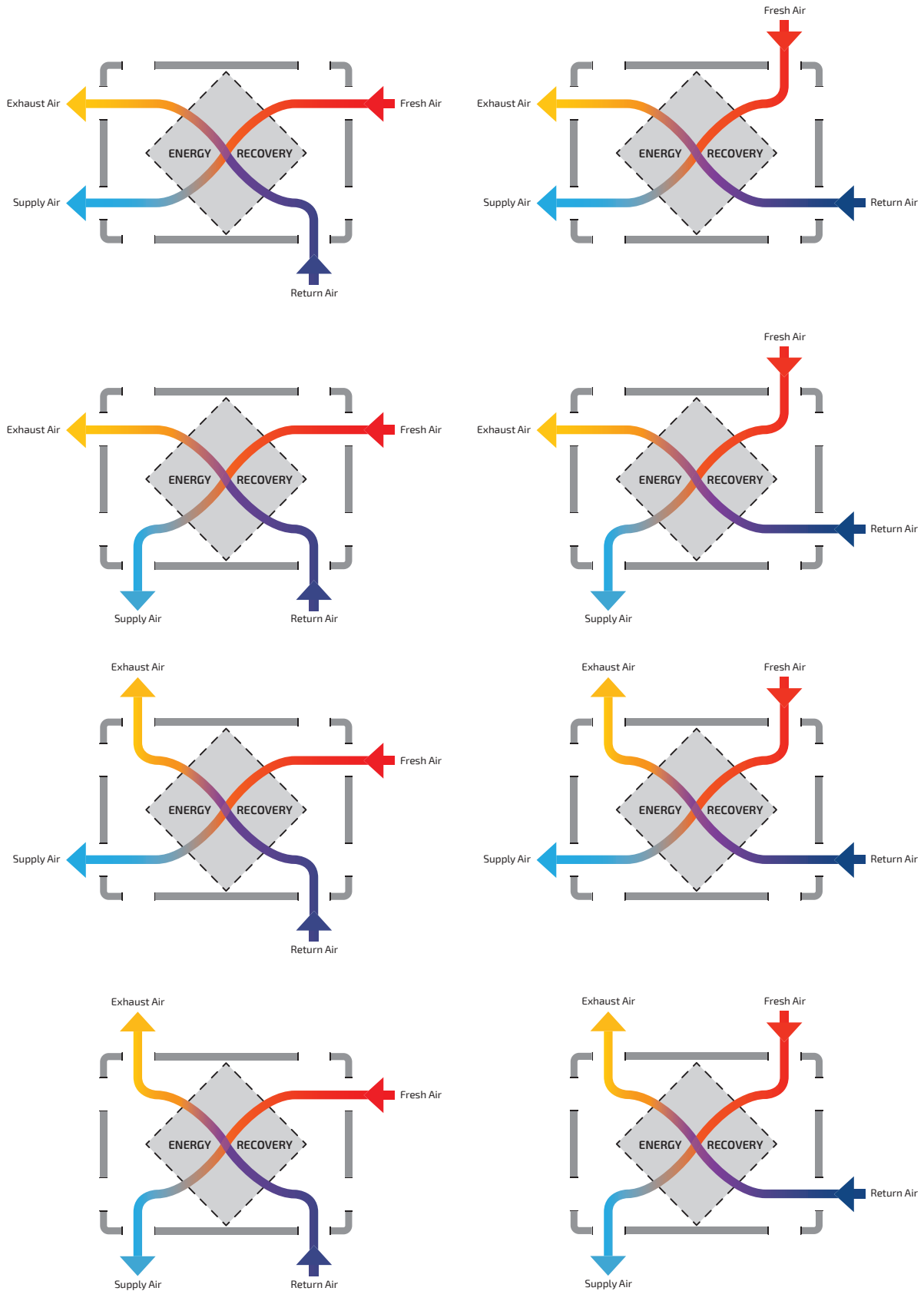
EXHAUST AIR: Ducted to outside the building or into the roof space if adequate ventilation to the outside air is available.

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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