XCHANGE
Energy Recovery
XCM–COMPACT MULTIFLOW ERV
XCM625P1 Technical Data

Technical Specifications

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

Supply Fan	
Fan Type	EC Plug Fan
Fan Motor	EC External Rotor
Motor Power (Watts)	1000
External Static (Pa)	250
Fan Diameter	250
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)	1000
External Static (Pa)	250
Fan Diameter	250
Motor Start	Soft Start
Control Input	0-10V DC
Motor Protection	Thermal Overload

Electrical	
Supply Fan (A)	2.9
Exhaust Fan (A)	2.9
Nominal Run Current (A)	5.8
Maximum Full Load (A)	10.2
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 XCM625P1E)
Sensible Media	Available (Model XCM625P1S)
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	
Hot Water Coil	Available (Model XCC625)
Chilled Water Coil	Available (Model XCC625)
Internal Drain Tray	Available (Model XCM625P1-T)

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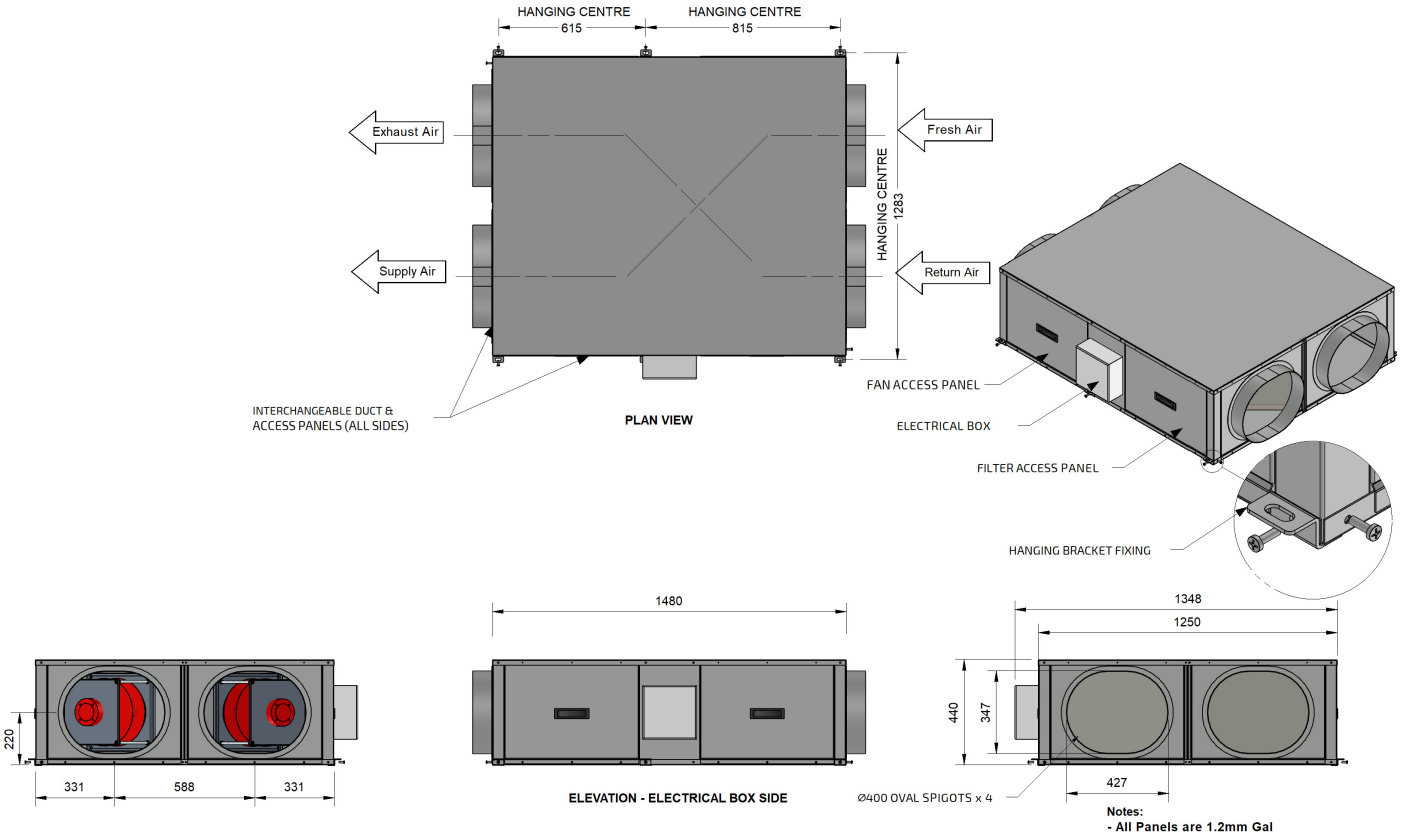
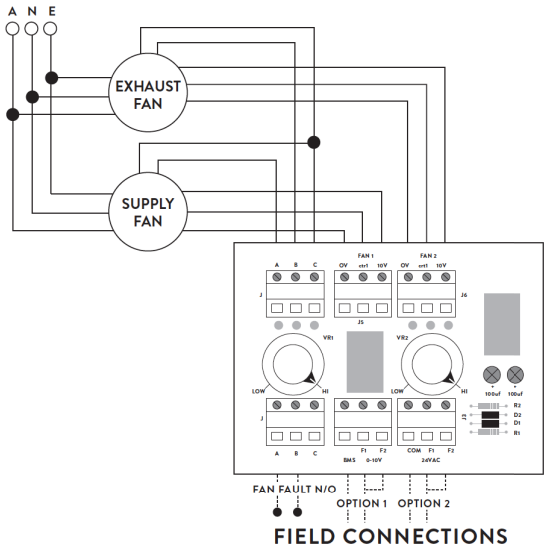
Technical Drawings – XCM625P1



Dimensions	
Height (mm)	440
Width (mm)	1250
Length (mm)	1480
Weight (Kg)	130
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



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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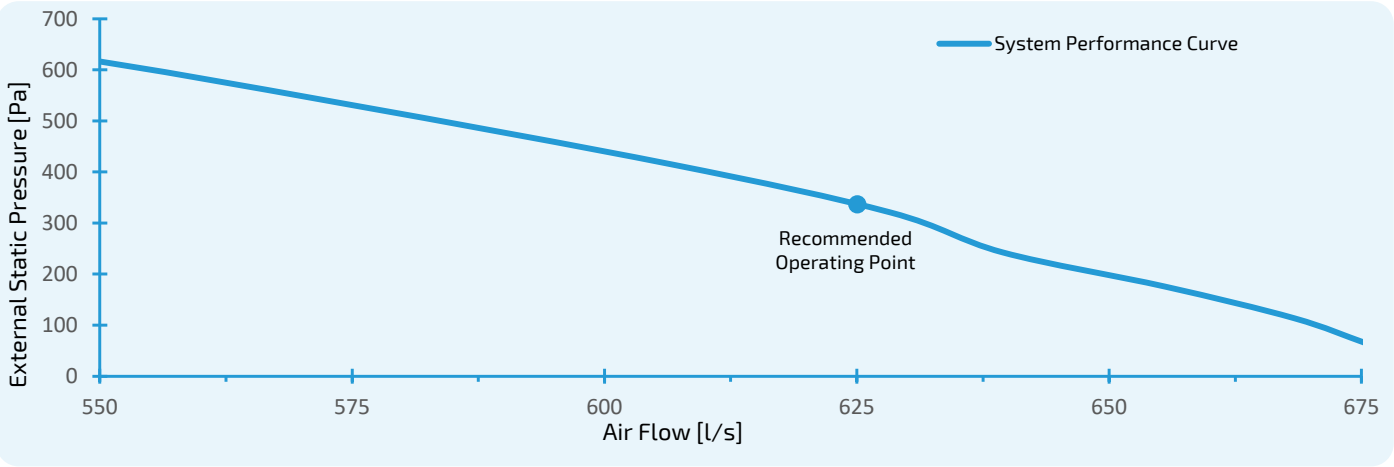
Fan Performance Data

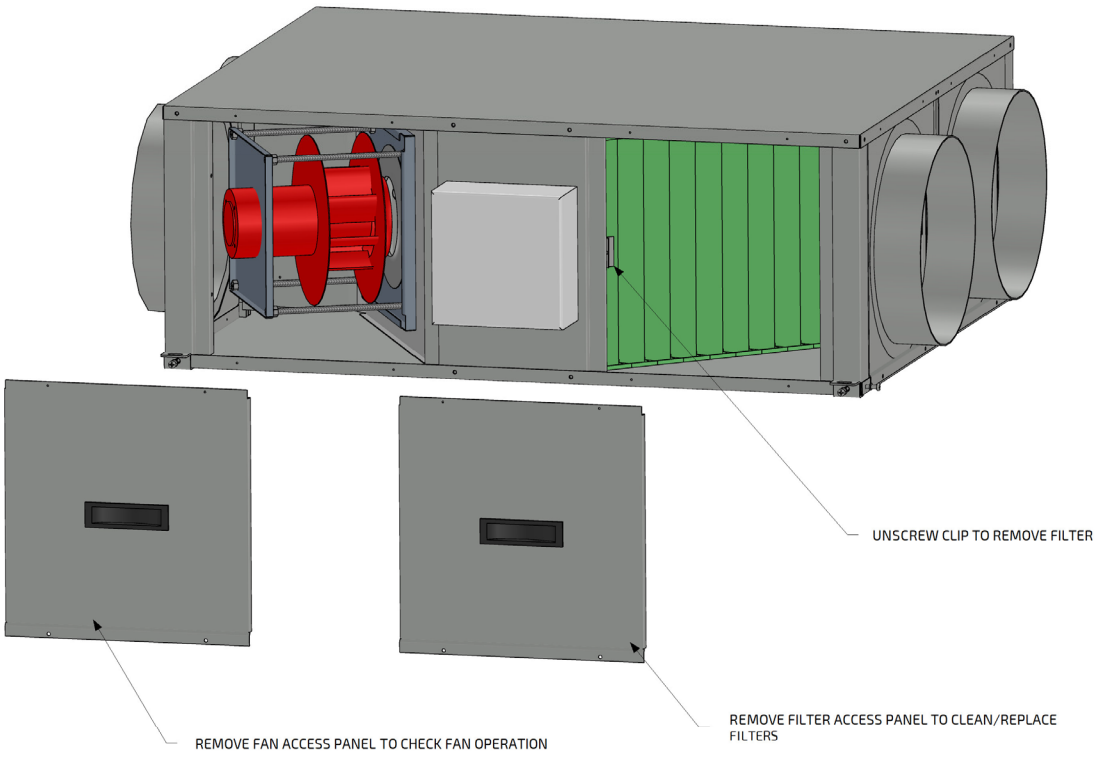


Sound Power Levels*

Inlet Rating dB		Outlet Rating dB	
63 Hz	73	63 Hz	75
125 Hz	66	125 Hz	68
250 Hz	73	250 Hz	75
500 Hz	82	500 Hz	84
1k Hz	74	1k Hz	76
2k Hz	67	2k Hz	69
4k Hz	57	4k Hz	59
8k Hz	66	8k Hz	68
LwA	84	LwA	86

* Sound Power Levels Recommended Operating Point.

Filter and Fan Access



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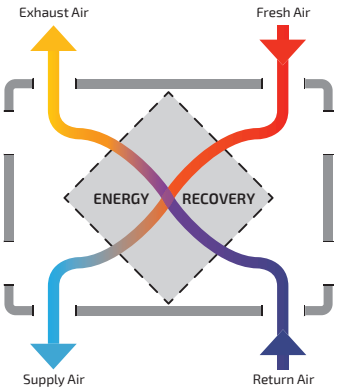
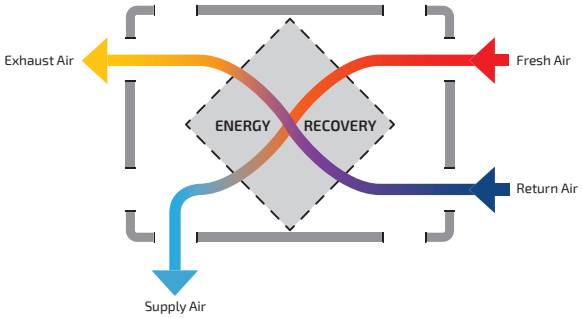
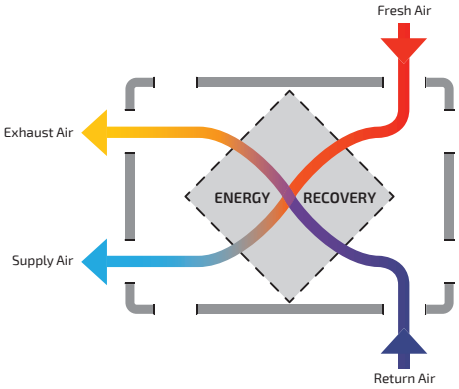
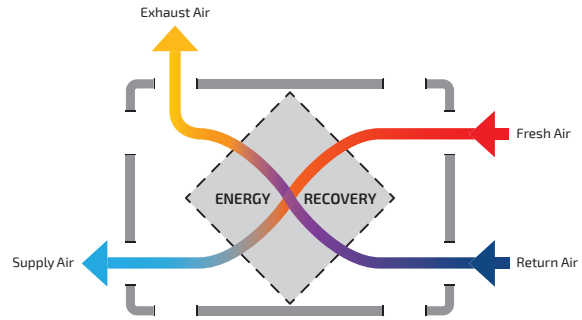
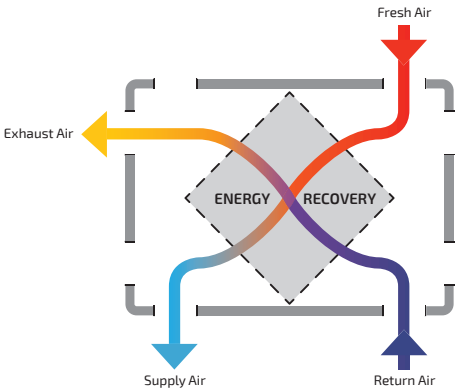
Ductwork Connections

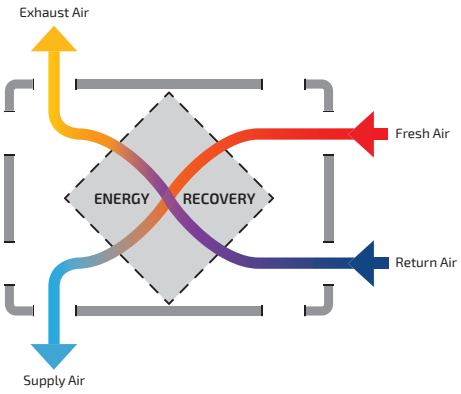


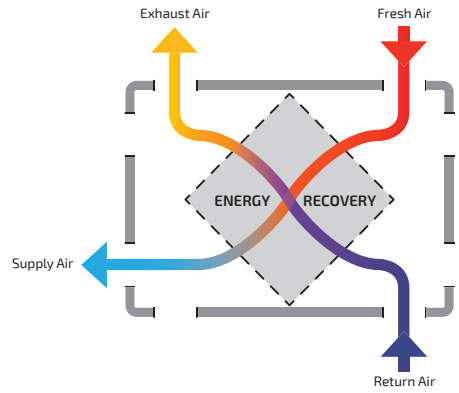












RETURN AIR: Air that is drawn from conditioned areas.

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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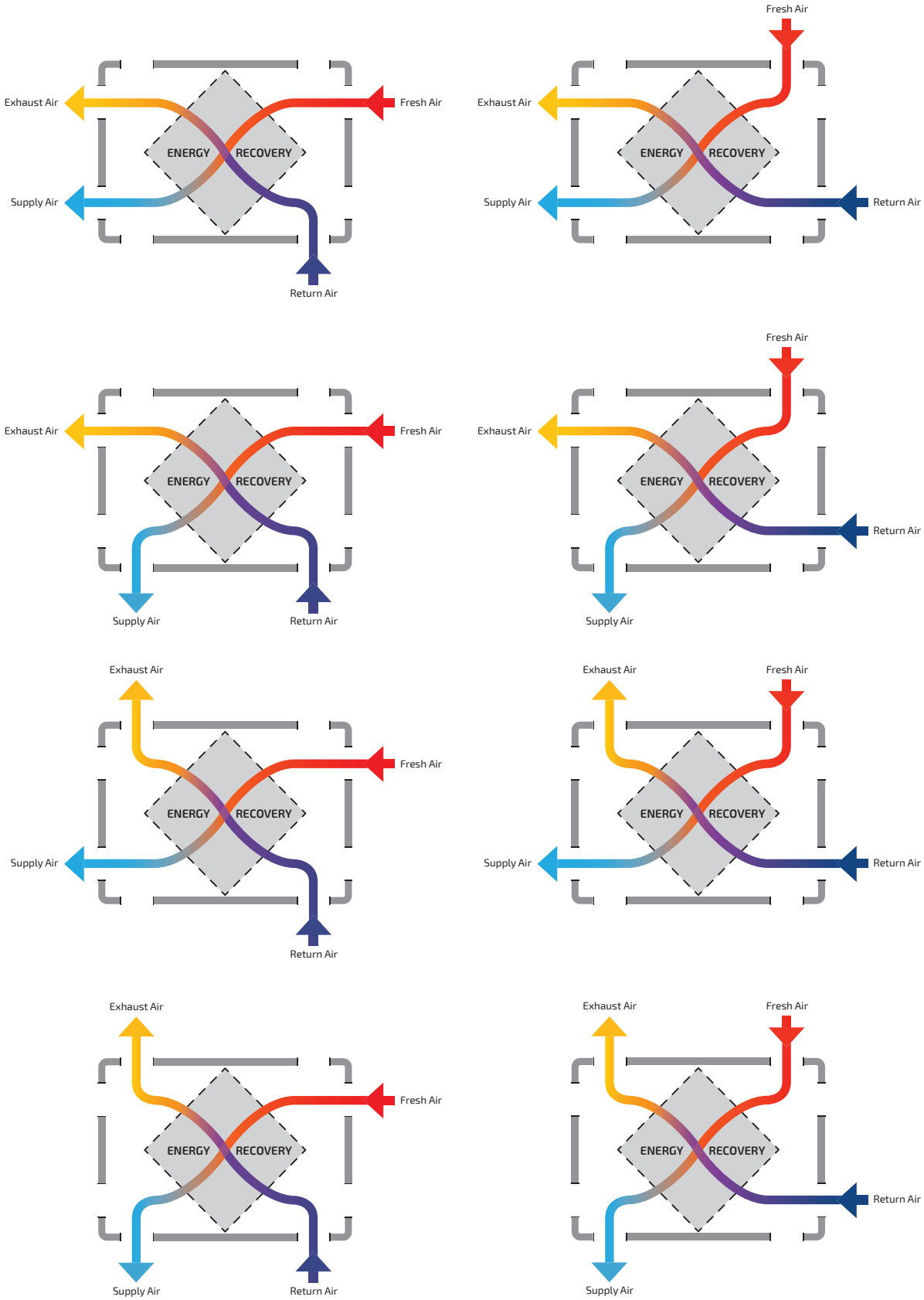

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