XCHANGE Energy Recovery XCM-COMPACT MULTIFLOW ERV XCM425P1 Technical Data



Technical Specifications

Nominal Airflow	
Supply Air (I/sec)	425
Return Air (I/sec)	425

Supply Fan	
Fan Type	EC Plug Fan
Fan Motor	EC External Rotor
Motor Power (Watts)	500
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)	500
External Static (Pa)	250
Fan Diameter	250
Motor Start	Soft Start
Control Input	0-10V DC
Motor Protection	Thermal Overload

1.6
1.6
3.2
4.б
240V/1ph
Lead & Plug

Controls

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

Heat Exchanger	*Rated at standard conditions of 35.5° db/24.0° wb
Enthalpy Media	Standard (Model XCM425P1E)
Sensible Media	Available (Model XCM425P1S)
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

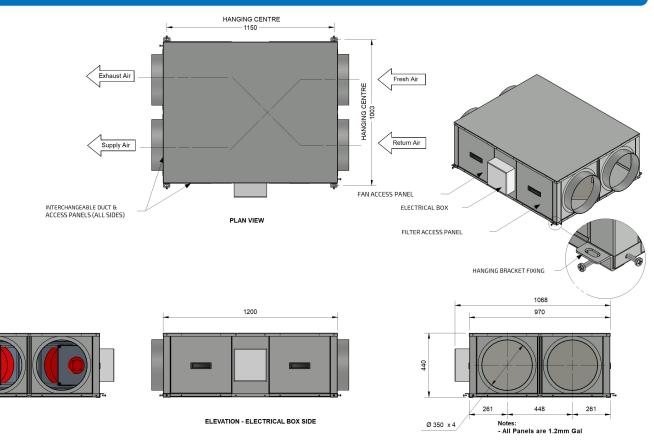
Filters	
Туре	45mm V Form Panel - G4
Disposable / Washable	Disposable
Size L x W x D (mm)	595 x 395 x 45
Number of Filters	2

Options

Hot Water Coil	Available (Model XCC425)
Chilled Water Coil	Available (Model XCC425)
Internal Drain Tray	Available (Model XCM425P1-T)



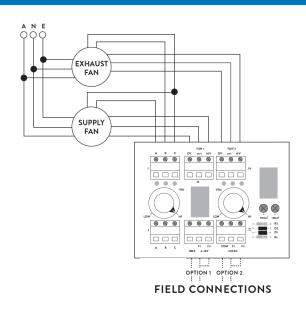
Technical Drawings - XCM425P1



440
970
1200
110
600 (Controls & Filter Access)
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



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

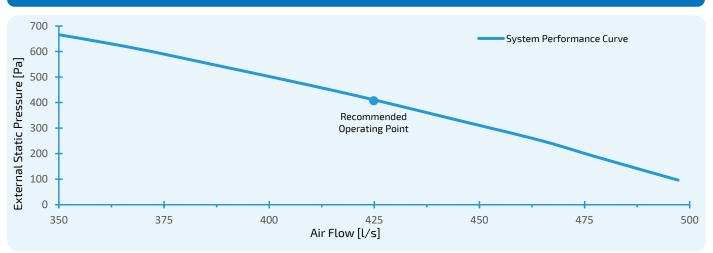
Do not turn main power on/off to enable/disable the unit operation. This must be done through the control circuit.

FAN FAULT NOT AVAILABLE.

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Fan Performance Data

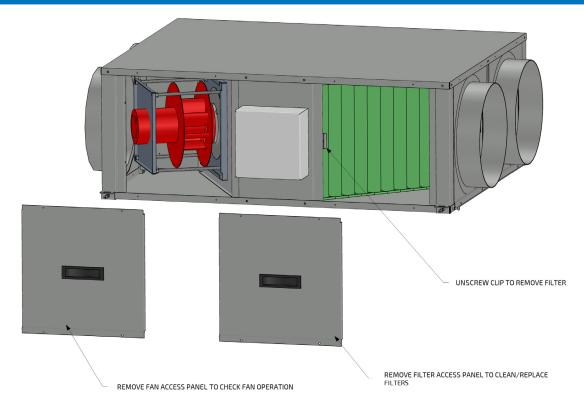


Sound Power Levels*

Inlet Rating dB		Outlet Rating dB	
63 Hz	69	63 Hz	71
125 Hz	62	125 Hz	64
250 Hz	69	250 Hz	71
500 Hz	78	500 Hz	80
1k Hz	70	1k Hz	72
2k Hz	63	2k Hz	65
4k Hz	53	4k Hz	55
8k Hz	62	8k Hz	64
LwA	80	LwA	82
* Cound Downey Lovale	December and ad One water	~ Deint	

* Sound Power Levels Recommended Operating Point.

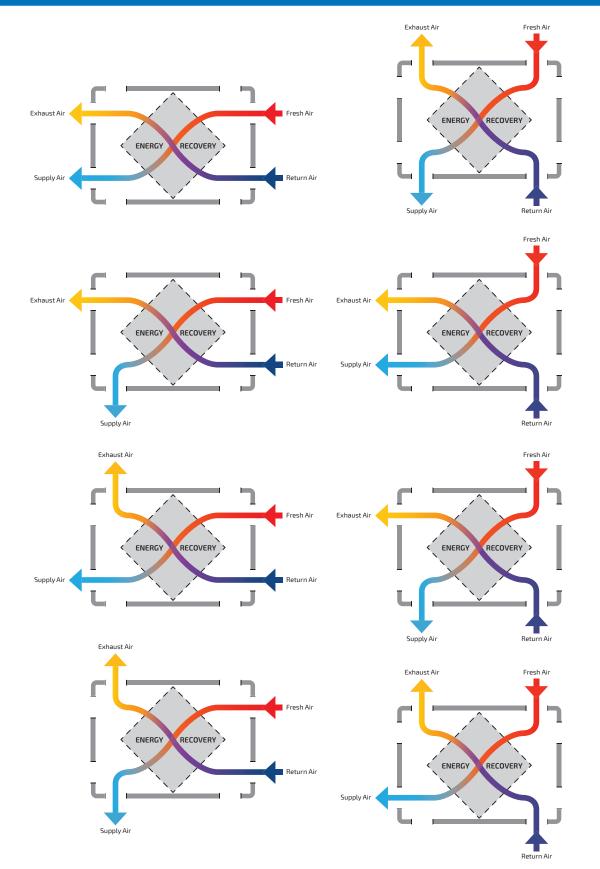
Filter and Fan Access



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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.

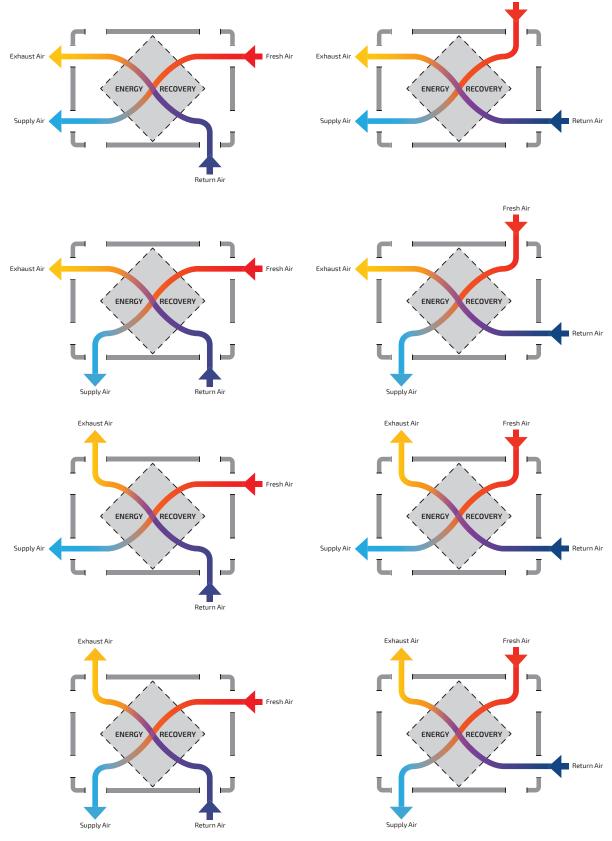
FRESH AIR: Use a fresh air cowl or grill to introduce fresh air.

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

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Fresh Air



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.



A: 109-111 Northcorp Blvd, Broadmeadows VIC 3047 T: 03 8301 9200 E: sales@armcor.com.au www.armcor.com.au FRESH AIR: Use a fresh air cowl or grill to introduce fresh air.

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