

# XCHANGE Energy Recovery

## XCM-COMPACT MULTIFLOW ERV

### XCM925P3 Technical Data



#### Technical Specifications

##### Nominal Airflow

Supply Air (l/sec)	925
Return Air (l/sec)	925

##### Supply 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

##### 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 XCM925P3E)
Sensible Media	Available (Model XCM925P3S)
Corrosion Resistant Media	Available
Velocity (m/sec)	1.92
Pressure Drop (Pa)	160.2
Kw Recovered (Cooling)*	13.41
Kw Recovered (Heating)*	17.32

##### Cabinet Construction

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

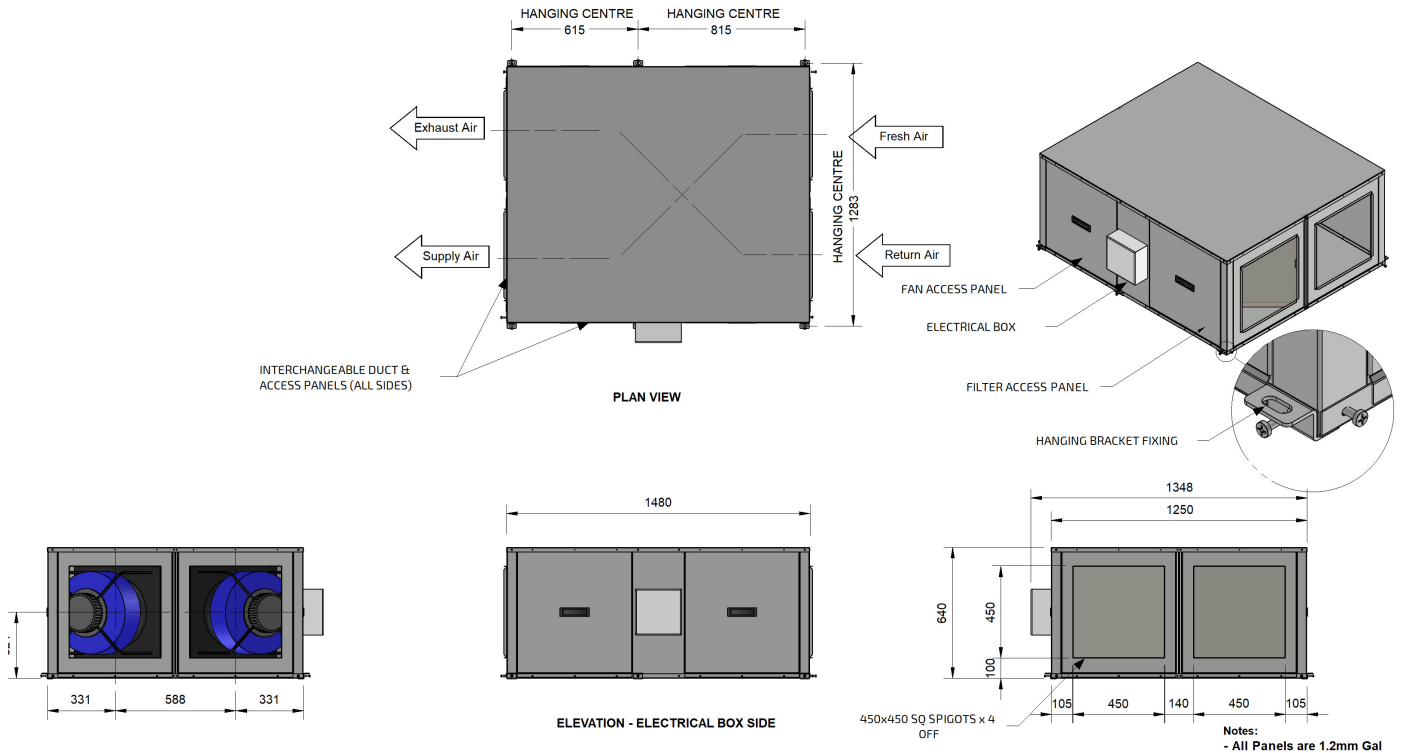
##### Filters

Type	45mm V Form Panel - G4
Disposable / Washable	Disposable
Size L x W x D (mm)	595 x 395 x 50
Number of Filters	4

##### Options

Hot Water Coil	Available (Model XCC925)
Chilled Water Coil	Available (Model XCC925)
Internal Drain Tray	Available (Model XCM925P3-T)

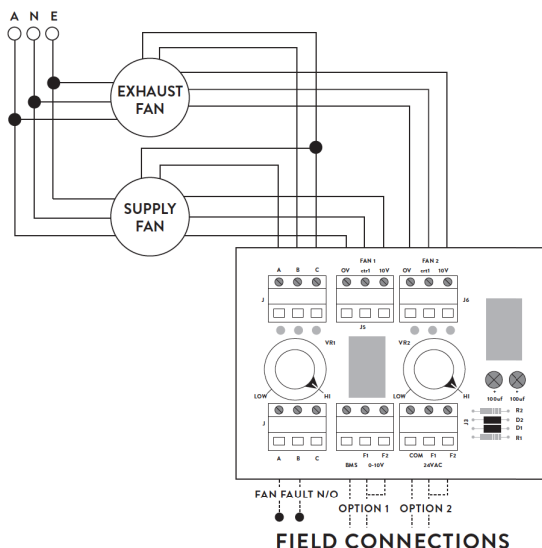
### Technical Drawings – XCM925P3



Dimensions	
Height (mm)	640
Width (mm)	1250
Length (mm)	1480
Weight (Kg)	165
Access Clearance (mm)	600 (Controls & Filter Access)
Access Clearance (mm)	600 (Filter Access)

Duct Sizes	
Exhaust Air (mm)	450 x 450
Return Air (mm)	450 x 450
Supply Air (mm)	450 x 450
Fresh Air (mm)	450 x 450

### Wiring Diagram

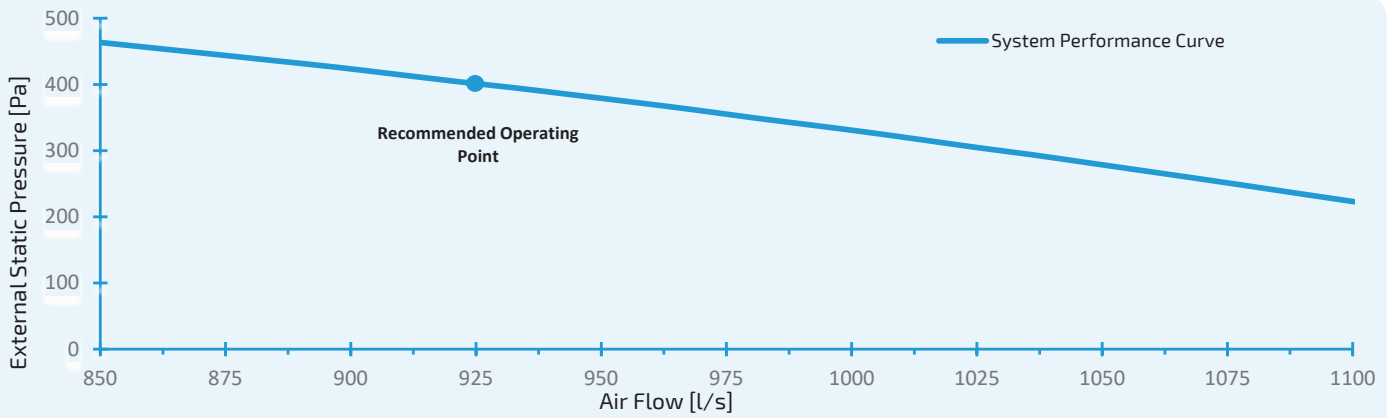


**OPTION 1**  
0-10V DC CONTROL VIA CONNECTION TO BMS  
0V = STOP / 1.5V = START / 10V = FULL SPEED

**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

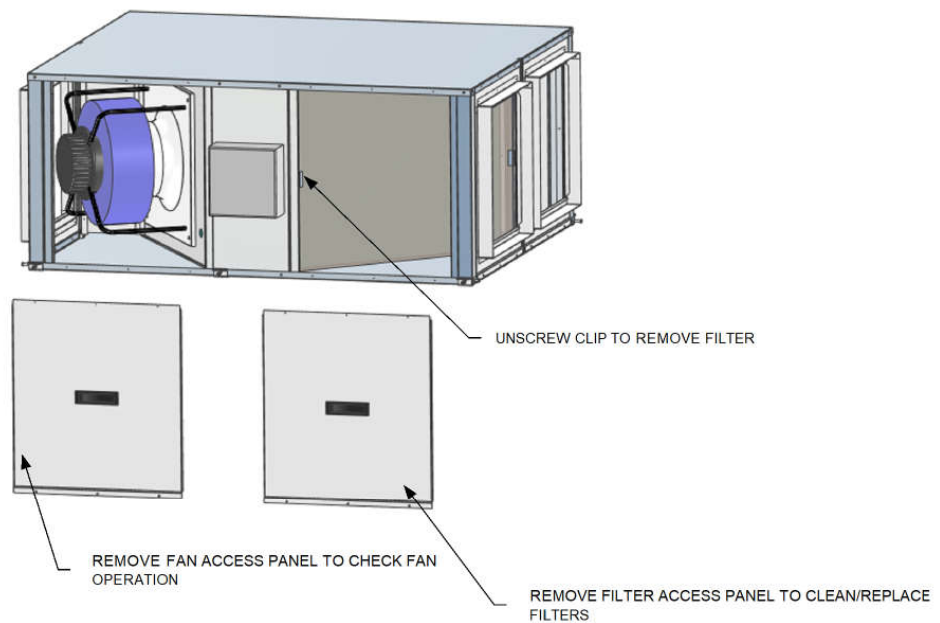


### Sound Power Levels\*

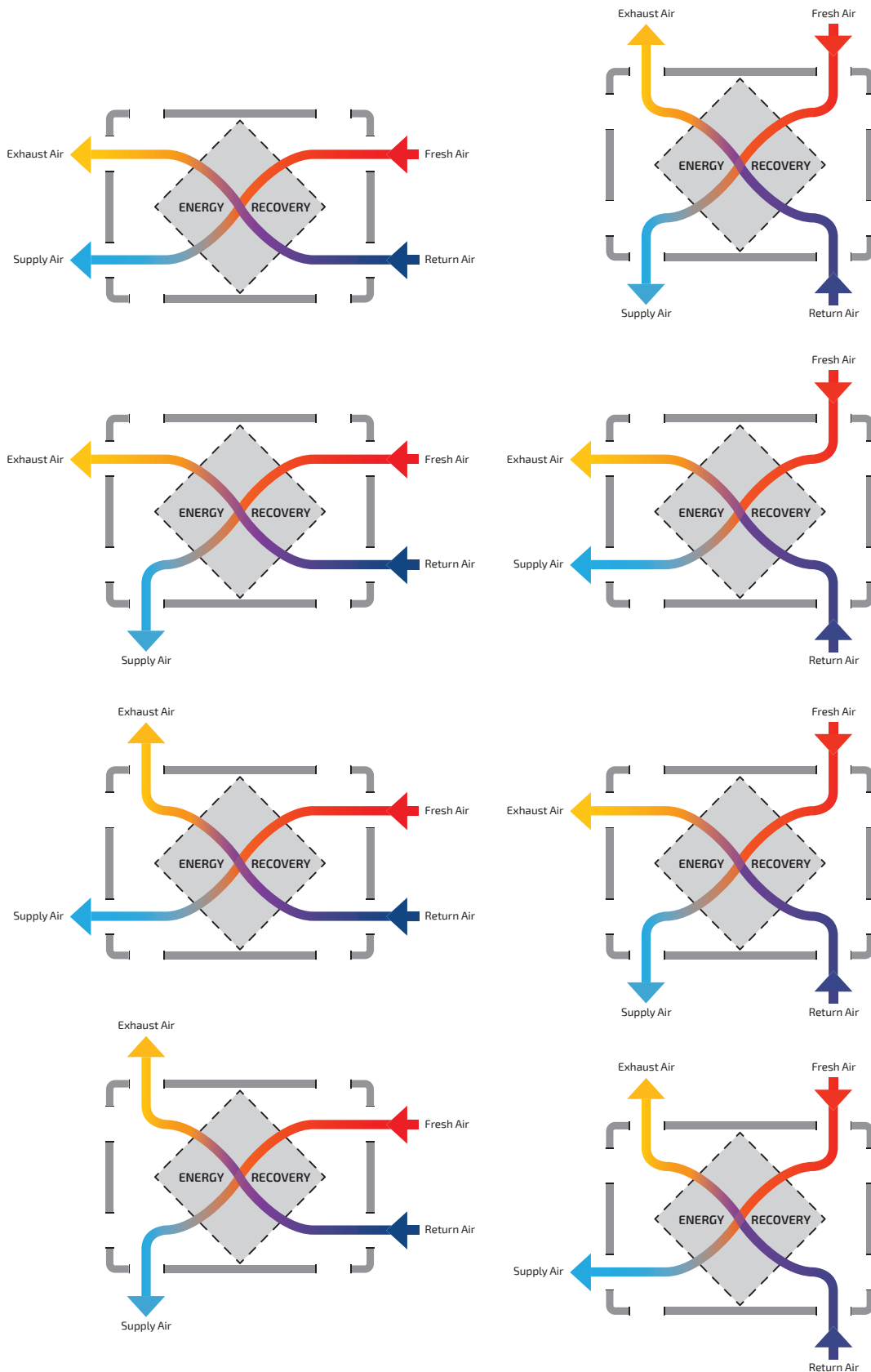
Inlet Rating dB		Outlet Rating dB	
63 Hz	64	63 Hz	66
125 Hz	70	125 Hz	70
250 Hz	71	250 Hz	70
500 Hz	70	500 Hz	74
1k Hz	68	1k Hz	75
2k Hz	68	2k Hz	73
4k Hz	67	4k Hz	72
8k Hz	60	8k Hz	65
LwA	74	LwA	80

\* Sound Power Levels Recommended Operating Point.

### Filter and Fan Access



### Ductwork Connections



**RETURN AIR:** Air that is drawn from conditioned areas.

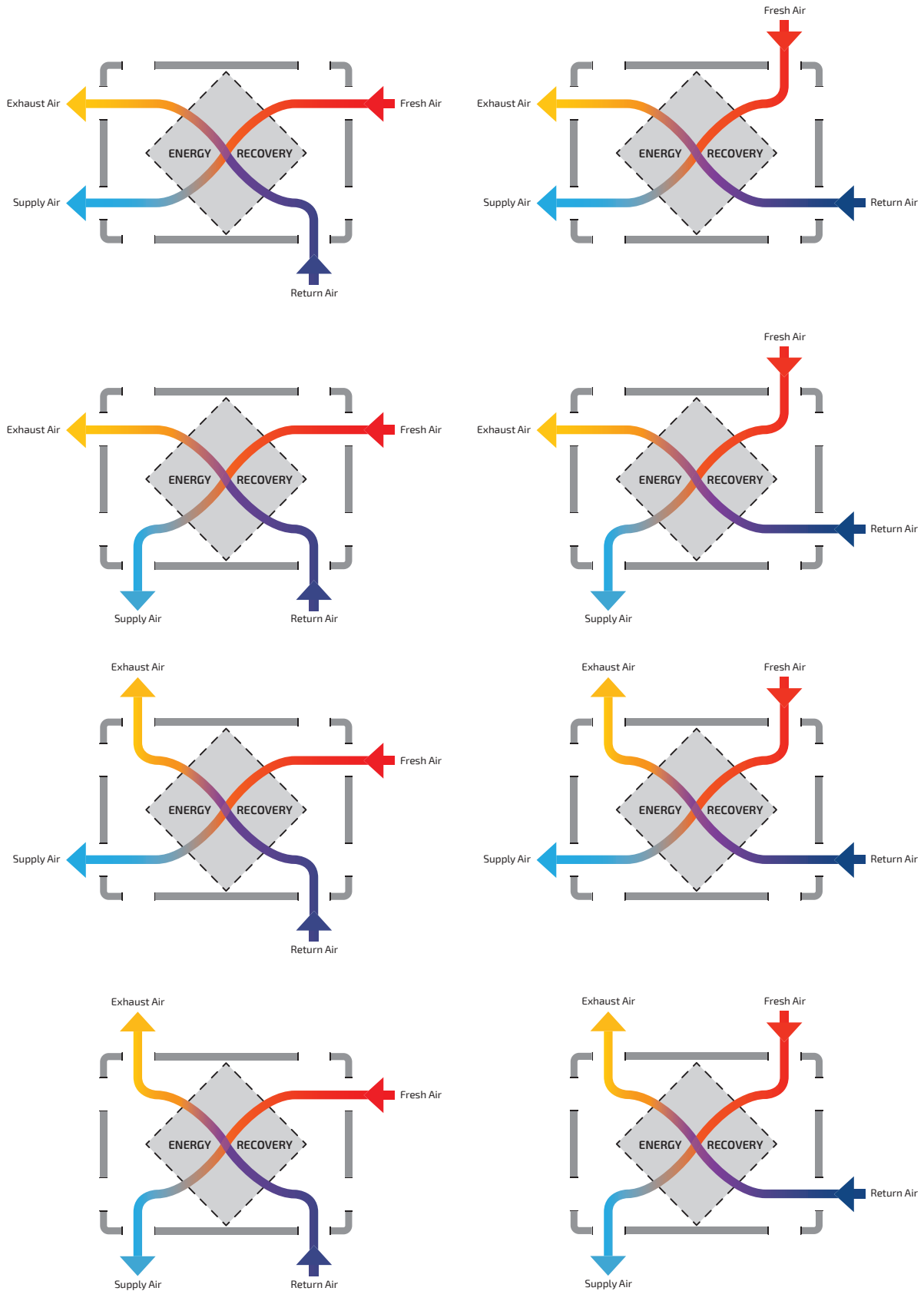
**EXHAUST AIR:** Ducted to outside the building or into the roof space if adequate ventilation to the outside air is available.

**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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