

XCHANGE ERV

HEAT RECOVERY

XCM1200P3 TECHNICAL DATA



TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW		HEAT EXCHANGER	
Supply Air (l/sec)	1200	Enthalpy Media	Standard
Exhaust Air (l/sec)	1200	Sensible Media	Available
SUPPLY FAN		Corrosion Resistant Media	Available
Fan Type	EC Plug Fan	Velocity (m/sec)	2.09
Fan Motor	EC External Rotor	Pressure Drop (Pa)	177
Motor Power (Watts)	1700	Kw Recovered (Cooling)*	25.38
External Static (Pa)	250	Kw Recovered (Heating)*	20.19
Fan Diameter	355	CABINET CONSTRUCTION	
Motor Start	Soft Start	Casing	Galvanised Metal
Control Input	0-10V DC	Insulation Thickness / Density	25mm/48Kg/m ³
Motor Protection	Thermal Overload	Hanging Brackets	Not Included
EXHAUST FAN		FILTERS	
Fan Type	EC Plug Fan	Type	50mm V Form Panel - G4
Fan Motor	EC External Rotor	Disposable / Washable	Disposable
Motor Power (Watts)	1700	Size L x W x D (mm)	695 x 395 x 50
External Static (Pa)	250	Number of Filters	2
Fan Diameter	355	OPTIONS	
Motor Start	Soft Start	Hot Water Coil	Available (Model XCC1200)
Control Input	0-10V DC	Chilled Water Coil	Available (Model XCC1200)
Motor Protection	Thermal Overload	Square Spigots/Metu Frames	Available
ELECTRICAL		Drain Tray	Available
Supply Fan FLA (A)	2.6 - 2.6 - 2.6	Pressure Sensor	Available
Exhaust Fan FLA (A)	2.6 - 2.6 - 2.6	CO2 Sensor	Available
Total Run Current (A)	5.2 - 5.2 - 5.2	Alarm Relay	Available
Volt/Phase	415V/3ph		
Connection	Terminal Box		
CONTROLS			
0-10V DC (Fan Control)	Included		
24V AC Controls	Included		
Fan Fault	Included		

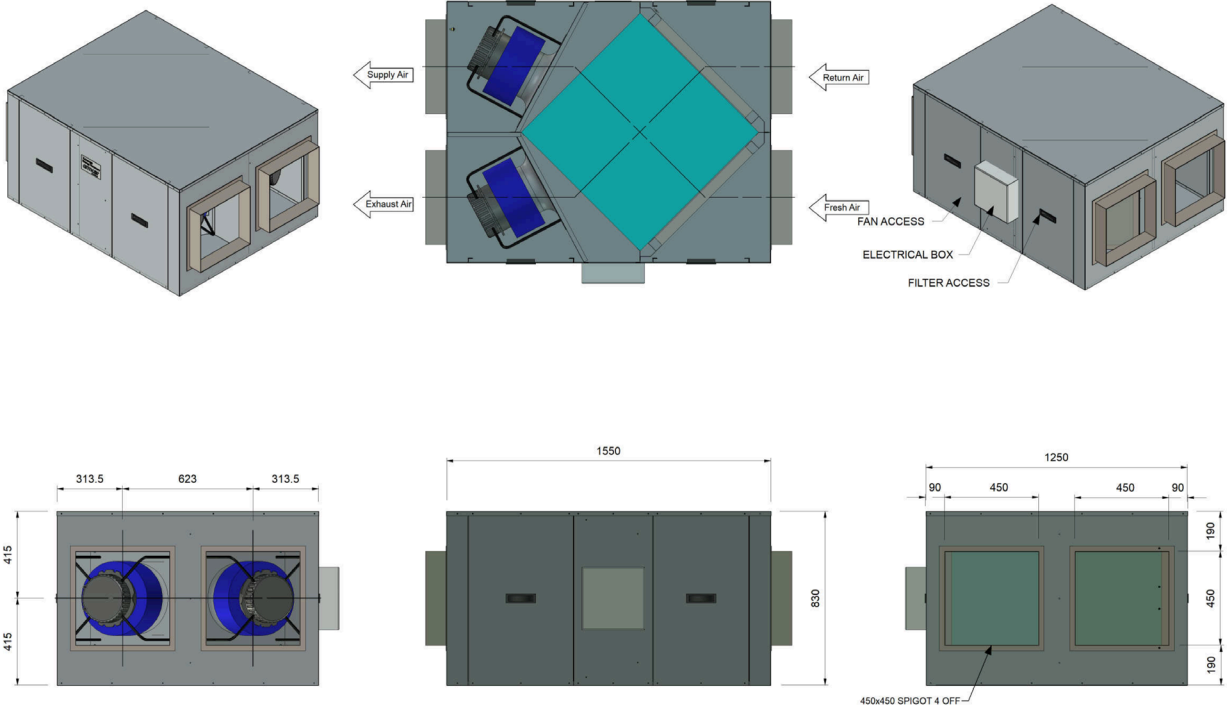
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TECHNICAL DRAWINGS



DIMENSIONS	
Height (mm)	835
Width (mm)	1250
Length (mm)	1550
Weight (Kg)	245
Access Clearance (mm)	1200 (Controls & Filter Access)
Access Clearance (mm)	750 (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

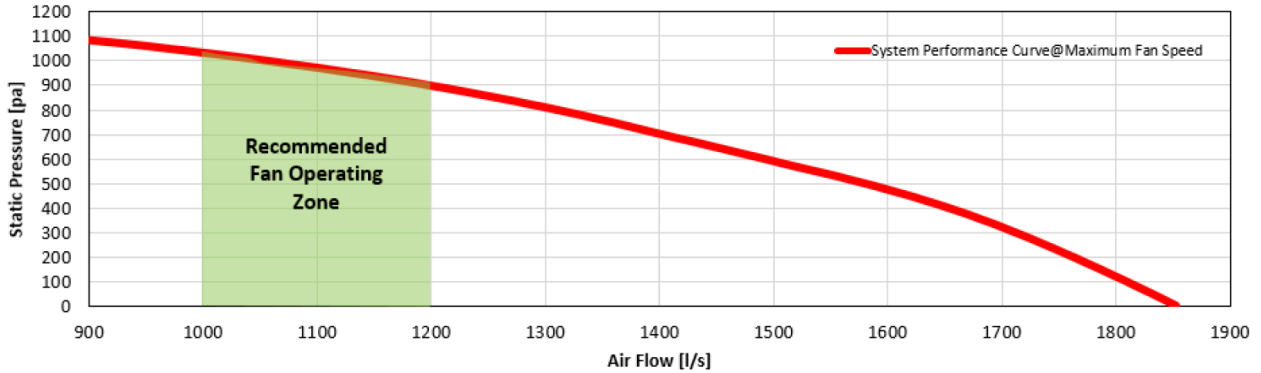
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FAN PERFORMANCE DATA

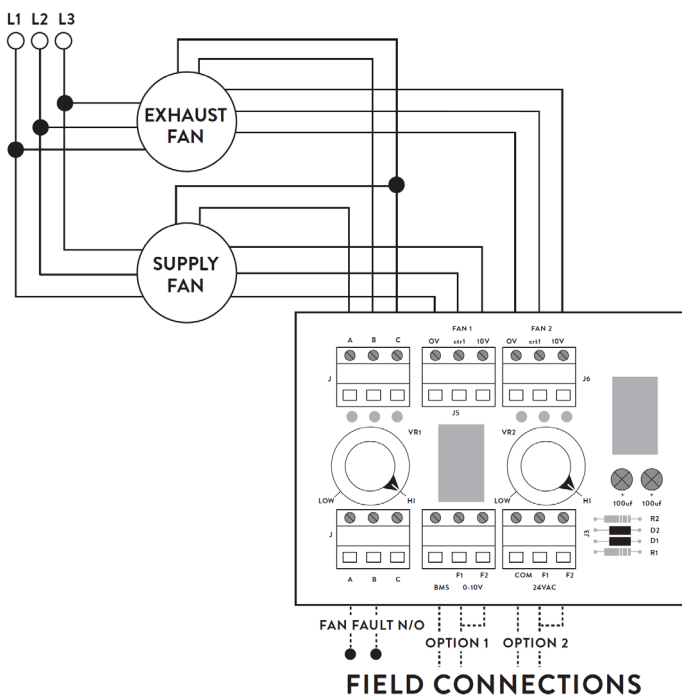


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	65.8	63 Hz	68.2
125 Hz	65.1	125 Hz	66.5
250 Hz	75.3	250 Hz	75.5
500 Hz	74.1	500 Hz	77.4
1 K Hz	69.5	1K Hz	79.5
2K Hz	70.3	2K Hz	76.7
4K Hz	67.3	4K Hz	72.3
8K Hz	67.1	8K Hz	70.1
LwA	77.1	LwA	83.3

* Sound Power Levels @500 Pa Total Static Pressure and 1200 l/s Total Air Volume.

WIRING DIAGRAM



OPTION 1

0-10V DC CONTROL VIA CONNECTION TO BMS

OPTION 2

24V AC ENABLE REGULATE FAN SPEED VIA POTS

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

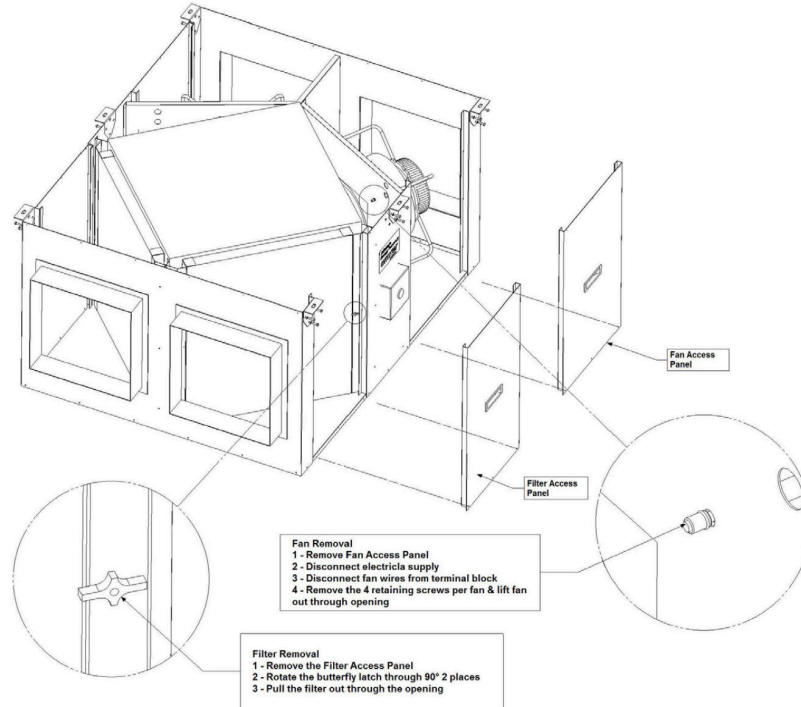
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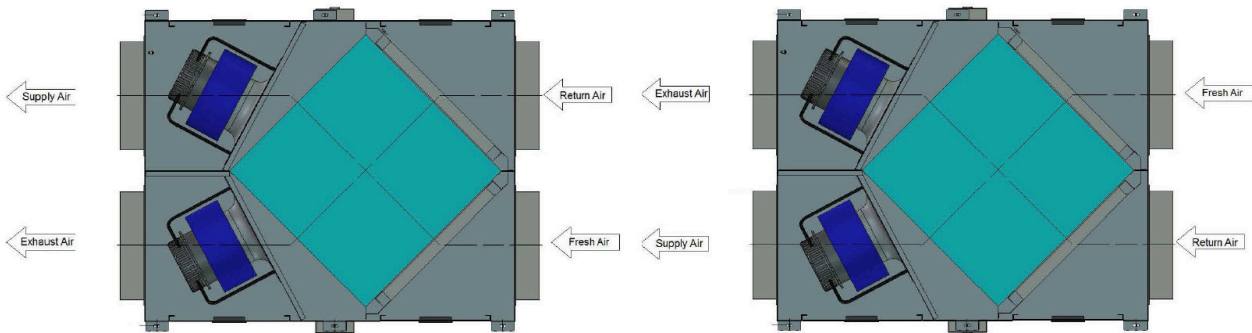
FILTER AND FAN ACCESS



DUCTWORK CONNECTIONS

OPTION 1 DOES NOT REQUIRE ANY CHANGES TO THE FAN POSITIONS INSIDE THE UNIT.

OPTION 2 DOES NOT REQUIRE ANY CHANGES TO THE FAN POSITIONS INSIDE THE UNIT.



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.

Designed and manufactured in Australia

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