

XCHANGE ERV

HEAT RECOVERY

XCM1000P3 TECHNICAL DATA



TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW		HEAT EXCHANGER	
Supply Air (l/sec)	1000	Enthalpy Media	Standard
Exhaust Air (l/sec)	1000	Sensible Media	Available
SUPPLY FAN		Corrosion Resistant Media	Available
Fan Type	EC Plug Fan	Velocity (m/sec)	1.74
Fan Motor	EC External Rotor	Pressure Drop (Pa)	148
Motor Power (Watts)	1700	Kw Recovered (Cooling)*	21.78
External Static (Pa)	250	Kw Recovered (Heating)*	17.32
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
ELECTRICAL		FILTERS	
Supply Fan FLA (A)	2.6 - 2.6 - 2.6	Type	50mm V Form Panel - G4
Exhaust Fan FLA (A)	2.6 - 2.6 - 2.6	Disposable / Washable	Disposable
Total Run Current (A)	5.2 - 5.2 - 5.2	Size L x W x D (mm)	695 x 395 x 50
Volt/Phase	415V/3ph	Number of Filters	4
Connection	Terminal Box	OPTIONS	
CONTROLS		Hot Water Coil	Available (Model XCC1000)
0-10V DC (Fan Control)	Included	Chilled Water Coil	Available (Model XCC1000)
24V AC Controls	Included	Drain Try	Available
Fan Fault	Included	Pressure Sensor	Available
		CO2 Sensor	Available
		Alarm Relay	Available

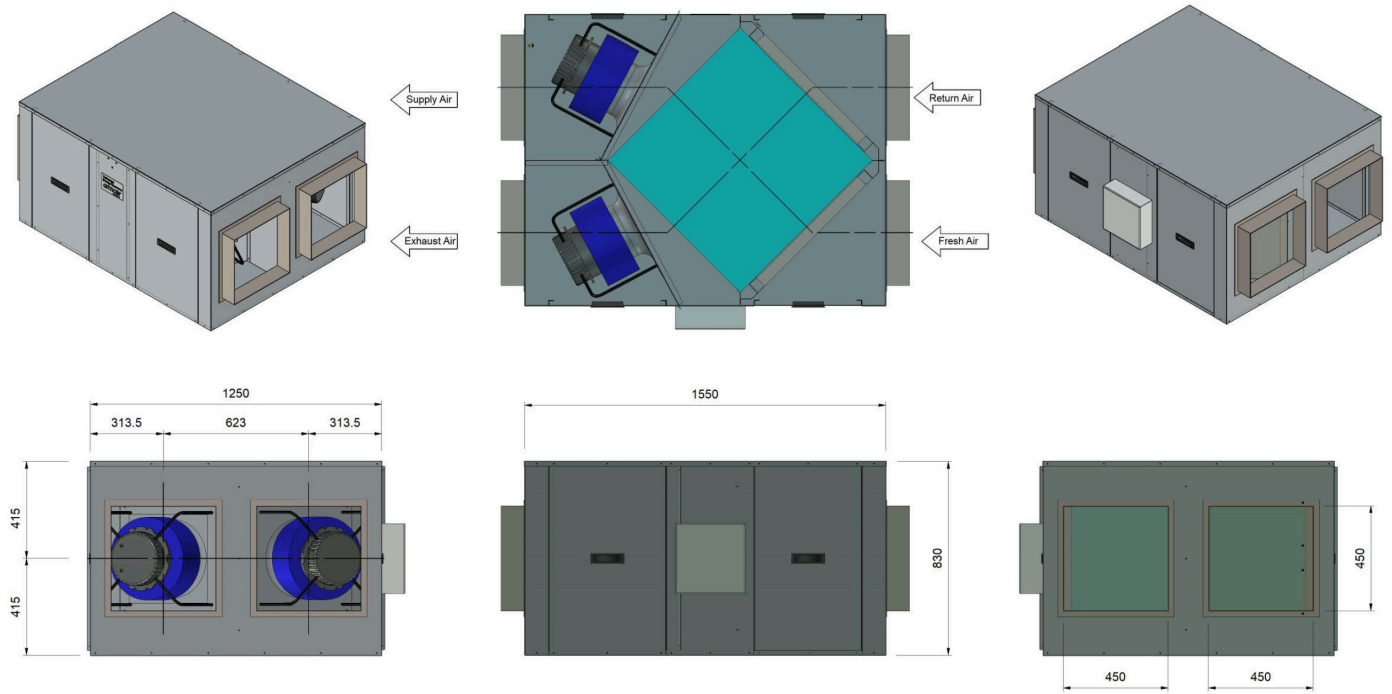
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TECHNICAL DRAWINGS



DIMENSIONS		DUCT SIZES	
Height (mm)	830	Exhaust Air (mm)	450 x 450
Width (mm)	1250	Return Air (mm)	450 x 450
Length (mm)	1550	Supply Air (mm)	450 x 450
Weight (Kg)	260	Fresh Air (mm)	450 x 450
Access Clearance (mm)	1000 (Controls & Filter Access)		
Access Clearance (mm)	750 (Filter Access)		

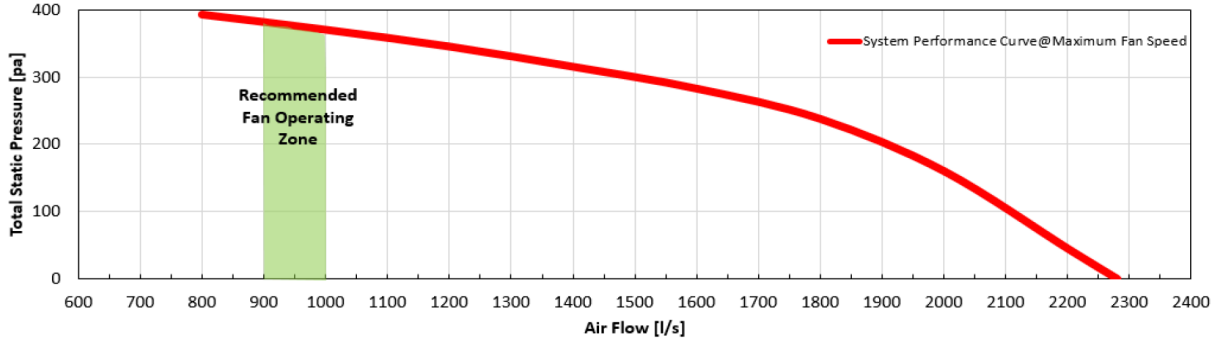
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FAN PERFORMANCE DATA

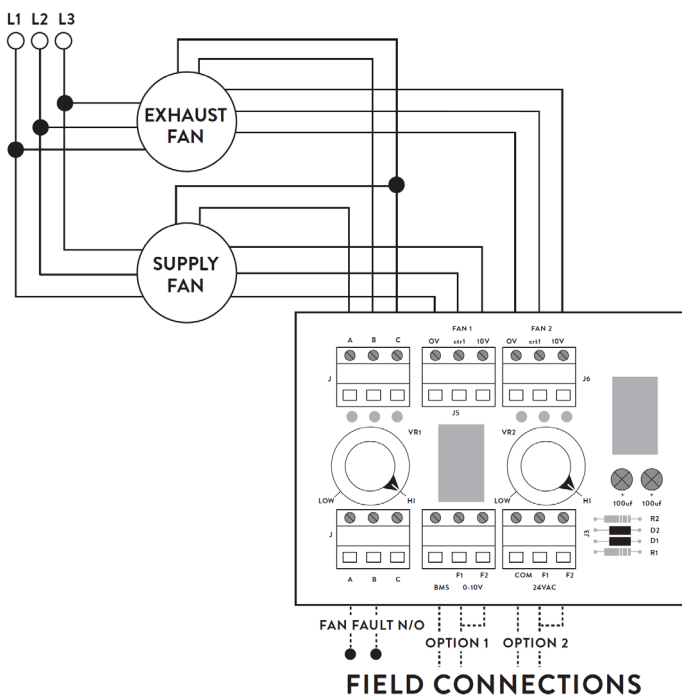


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	63.6	63 Hz	66.0
125 Hz	63.0	125 Hz	64.5
250 Hz	72.1	250 Hz	74.5
500 Hz	72.8	500 Hz	75.3
1 K Hz	67.4	1K Hz	77.2
2K Hz	68.3	2K Hz	74.1
4K Hz	65.5	4K Hz	70.1
8K Hz	62.3	8K Hz	66.1
LwA	75.0	LwA	80.9

* Sound Power Levels @500 Pa Total Static Pressure and 1000 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.

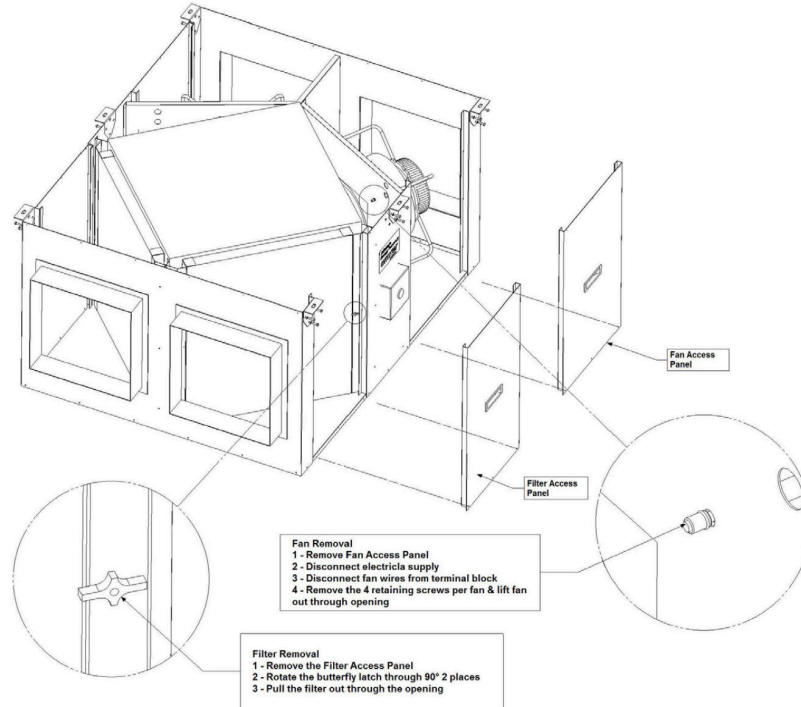
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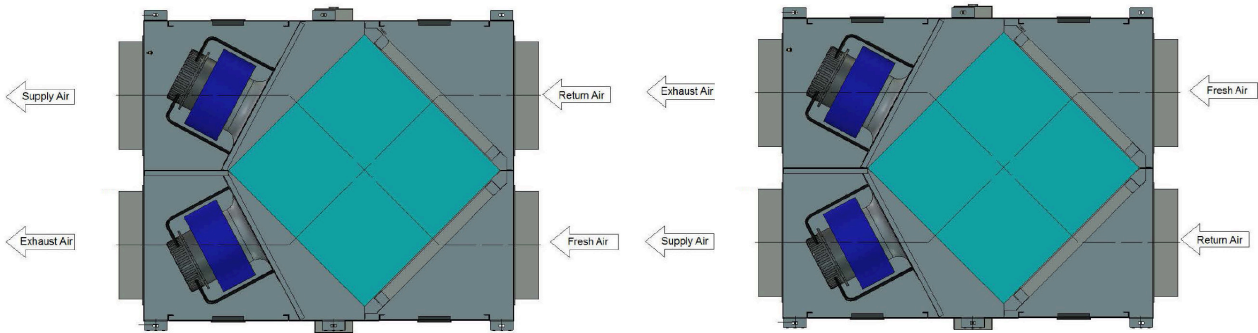
FILTER AND FAN ACCESS



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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