

XCHANGE ERV

HEAT RECOVERY

XCM1000C1 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	Forward Curve Centrifugal	Velocity (m/sec)	1.74
Fan Motor	Direct Drive	Pressure Drop (Pa)	148
Motor Power (Watts)	2 x 750	Kw Recovered (Cooling)*	21.78
External Static (Pa)	150	Kw Recovered (Heating)*	17.32
Speeds	3	CABINET CONSTRUCTION	
Max Fan Speed (rpm)	1440	Casing	Galvanised Metal
Motor Protection	Thermal Overload	Insulation Thickness / Density	25mm/48Kg/m ³
EXHAUST FAN		Hanging Brackets	Not Included
Fan Type	Forward Curve Centrifugal	FILTERS	
Fan Motor	Direct Drive	Type	50mm V Form Panel - G4
Motor Power (Watts)	2 x 750	Disposable / Washable	Disposable
External Static (Pa)	150	Size L x W x D (mm)	695 x 395 x 50
Speeds	3	Number of Filters	4
Max Fan Speed (rpm)	1440	OPTIONS	
Motor Protection	Thermal Overload	Hot Water Coil	Available (Model XCC1000)
ELECTRICAL		Chilled Water Coil	Available (Model XCC1000)
Supply Fan FLA (A)	9.8	Drain Try	Available
Exhaust Fan FLA (A)	9.8	Pressure Sensor	Available
Total Run Current (A)	19.6	CO2 Sensor	Available
Volt/Phase	240V/1ph	Alarm Relay	Available
Connection	Terminal Box		
CONTROLS			
240V Controls	Included		
0-10V DC (Fan Control)	Available		
24V AC Controls	Available		
Fan Fault	No		

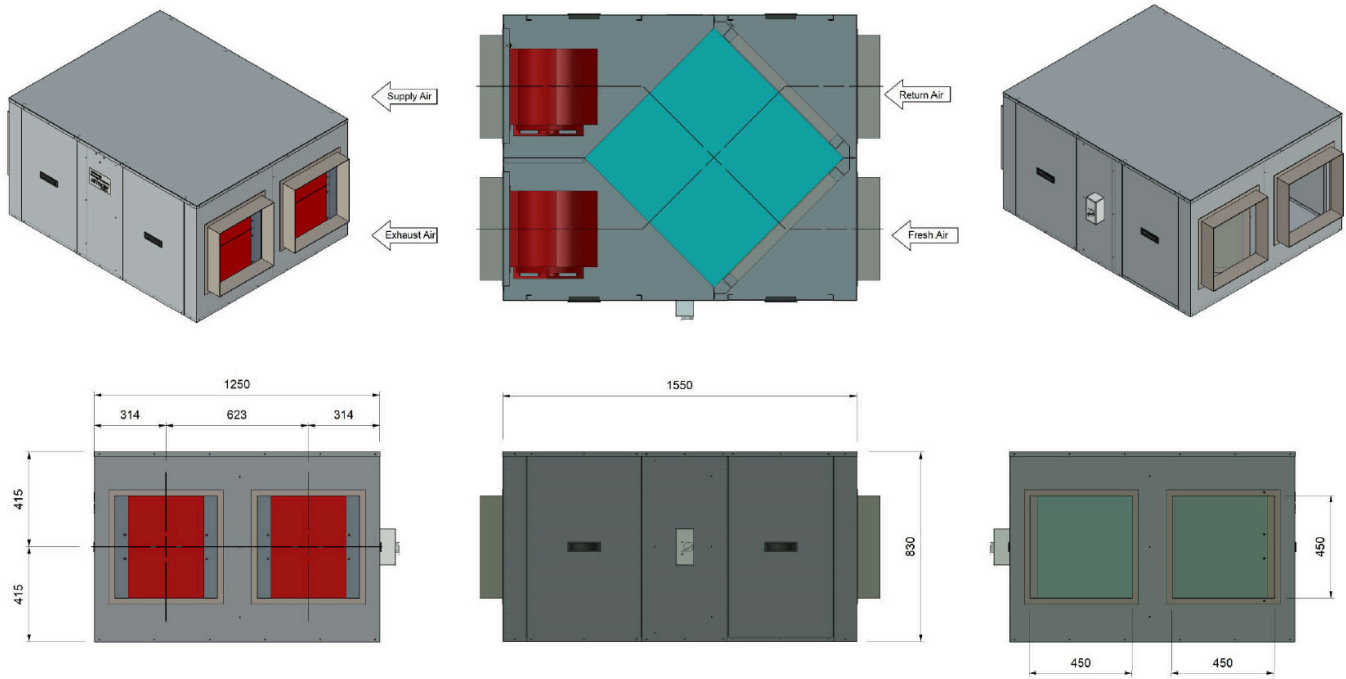
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TECHNICAL DRAWINGS



DIMENSIONS	
Height (mm)	830
Width (mm)	1250
Length (mm)	1550
Weight (Kg)	230
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

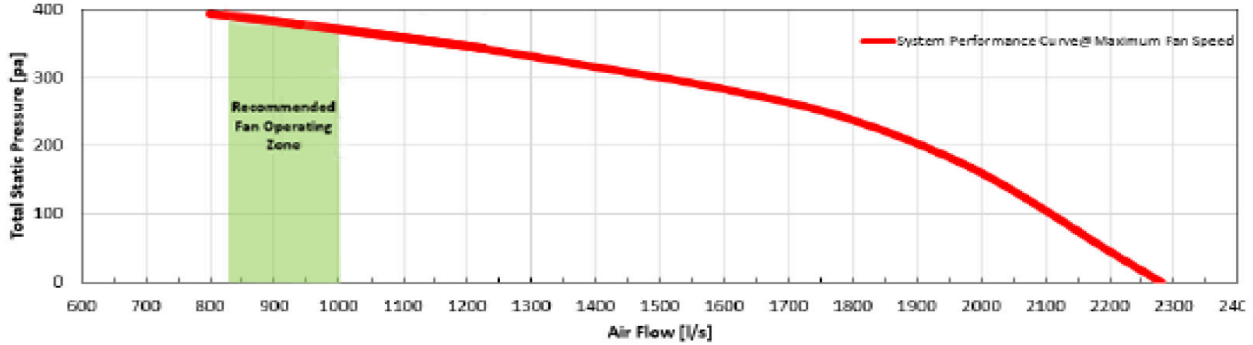
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FAN PERFORMANCE DATA

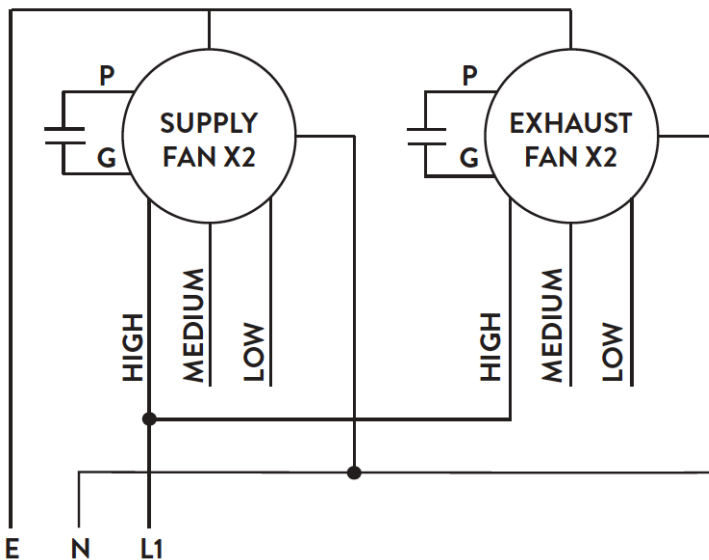


SOUND POWER LEVELS*

INLET RATING dB		INLET RATING dB	
63 Hz	70.0	1K Hz	77.0
125 Hz	81.0	2K Hz	73.0
250 Hz	85.0	4K Hz	71.0
500 Hz	75.0	8K Hz	66.0
LwA	82.0		

* Sound Power Levels @350 Pa Total Static Pressure and 1000 l/s Total Air Volume.

WIRING DIAGRAM



ELECTRICAL CONNECTIONS

E	EARTH	GREEN/YELLOW
N	NEUTRAL	BLUE
L	ACTIVE	BROWN
H	HIGH SPEED	BROWN
M	MEDIUM SPEED	GREY/ORANGE
L	LOW SPEED	WHITE

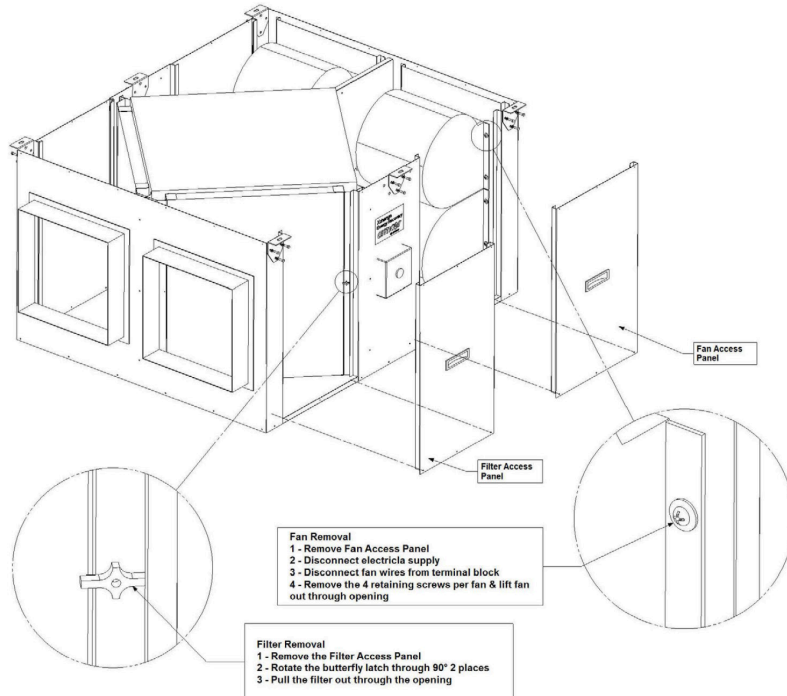
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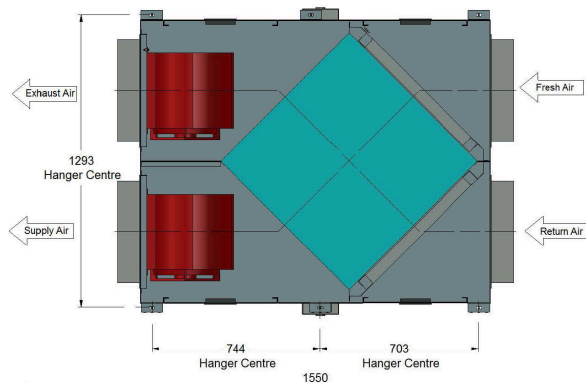
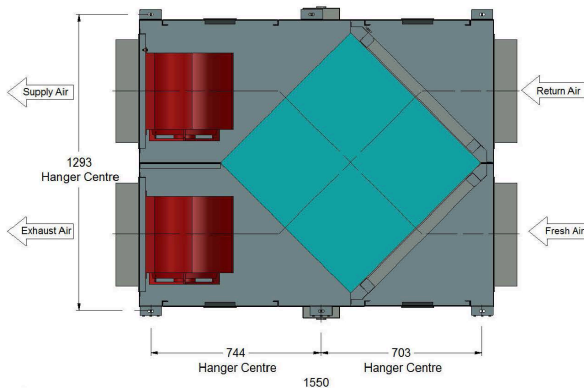
FILTER AND FAN ACCESS



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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