

XCHANGE ERV

HEAT RECOVERY

XCM800P3 TECHNICAL DATA



TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW		HEAT EXCHANGER	
Supply Air (l/sec)	800	Enthalpy Media	Standard
Exhaust Air (l/sec)	800	Sensible Media	Available
SUPPLY FAN		Corrosion Resistant Media	Available
Fan Type	EC Plug Fan	Velocity (m/sec)	2.11
Fan Motor	EC External Rotor	Pressure Drop (Pa)	178
Motor Power (Watts)	1700	Kw Recovered (Cooling)*	16.9
External Static (Pa)	300	Kw Recovered (Heating)*	13.45
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	FILTERS	
EXHAUST FAN		Type	50mm V Form Panel - G4
Fan Type	EC Plug Fan	Disposable / Washable	Disposable
Fan Motor	EC External Rotor	Size L x W x D (mm)	695 x 520 x 50
Motor Power (Watts)	1700	Number of Filters	2
External Static (Pa)	300	OPTIONS	
Fan Diameter	355	Hot Water Coil	Available (Model XCC800)
Motor Start	Soft Start	Chilled Water Coil	Available (Model XCC800)
Control Input	0-10V DC	Square Spigots/Metu Frames	Available
Motor Protection	Thermal Overload	Drain Try	Available
ELECTRICAL		Pressure Sensor	Available
Supply Fan FLA (A)	2.6 - 2.6 - 2.6	CO2 Sensor	Available
Exhaust Fan FLA (A)	2.6 - 2.6 - 2.6	Alarm Relay	Available
Total Run Current (A)	5.2 - 5.2 - 5.2	CONTROLS	
Volt/Phase	415V/3ph	0-10V DC (Fan Control)	Included
Connection	Terminal Box	24V AC Controls	Included
CONTROLS		Fan Fault	Included

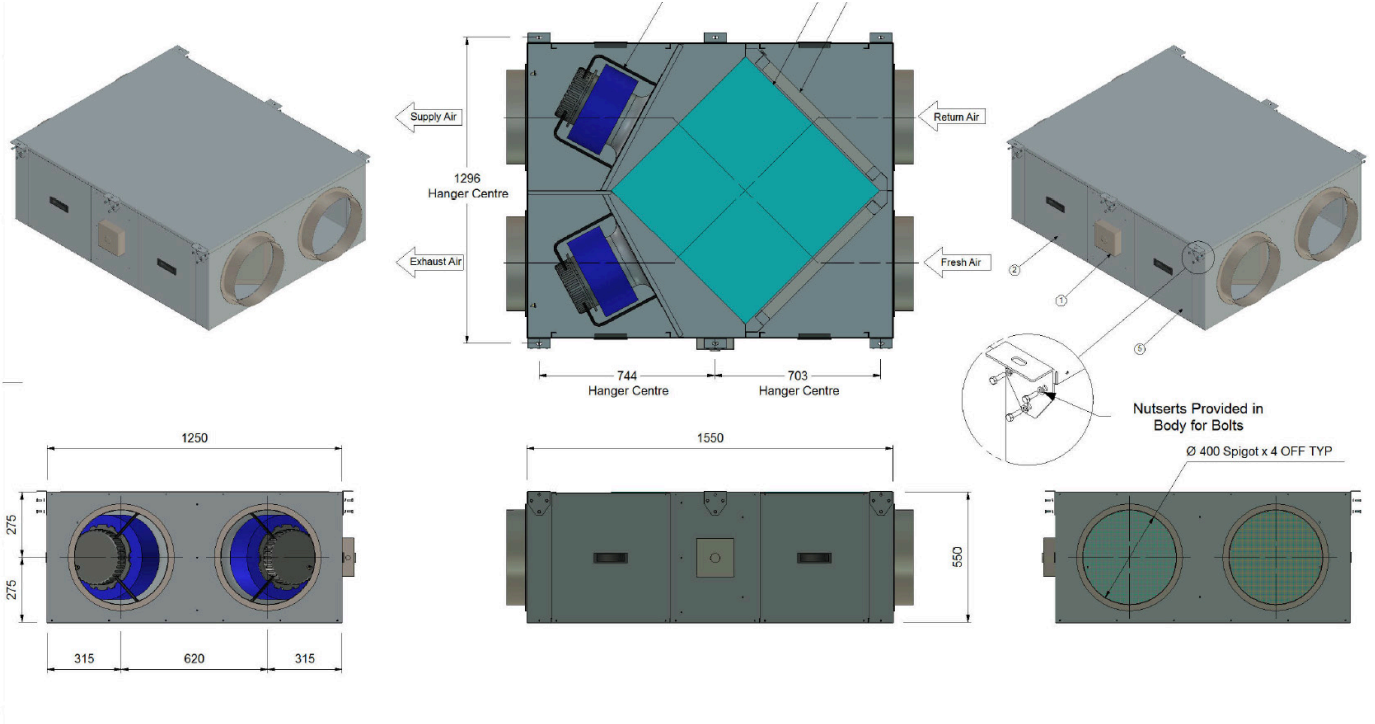
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TECHNICAL DRAWINGS



DIMENSIONS		DUCT SIZES	
Height (mm)	550	Exhaust Air (mm)	400 Ø
Width (mm)	1250	Return Air (mm)	400 Ø
Length (mm)	1550	Supply Air (mm)	400 Ø
Weight (Kg)	240	Fresh Air (mm)	400 Ø
Access Clearance (mm)	1000 (Controls & Filter Access)		
Access Clearance (mm)	750 (Filter Access)		

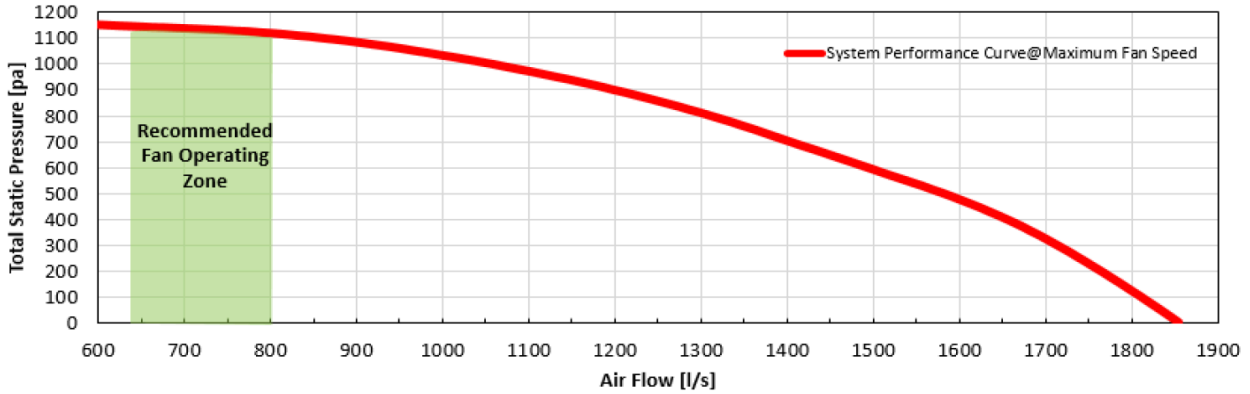
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FAN PERFORMANCE DATA

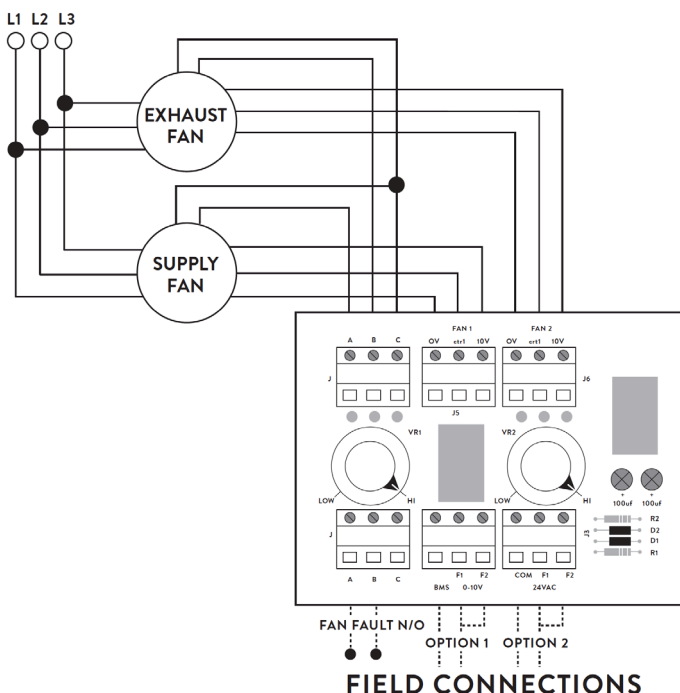


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	64.0	63 Hz	66.3
125 Hz	65.3	125 Hz	67.0
250 Hz	71.8	250 Hz	74.1
500 Hz	71.3	500 Hz	74.1
1 K Hz	65.7	1K Hz	75.6
2K Hz	66.5	2K Hz	72.2
4K Hz	63.9	4K Hz	68.3
8K Hz	58.8	8K Hz	62.8
LwA	73.4	LwA	79.2

* Sound Power Levels @500 Pa Total Static Pressure and 800 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.

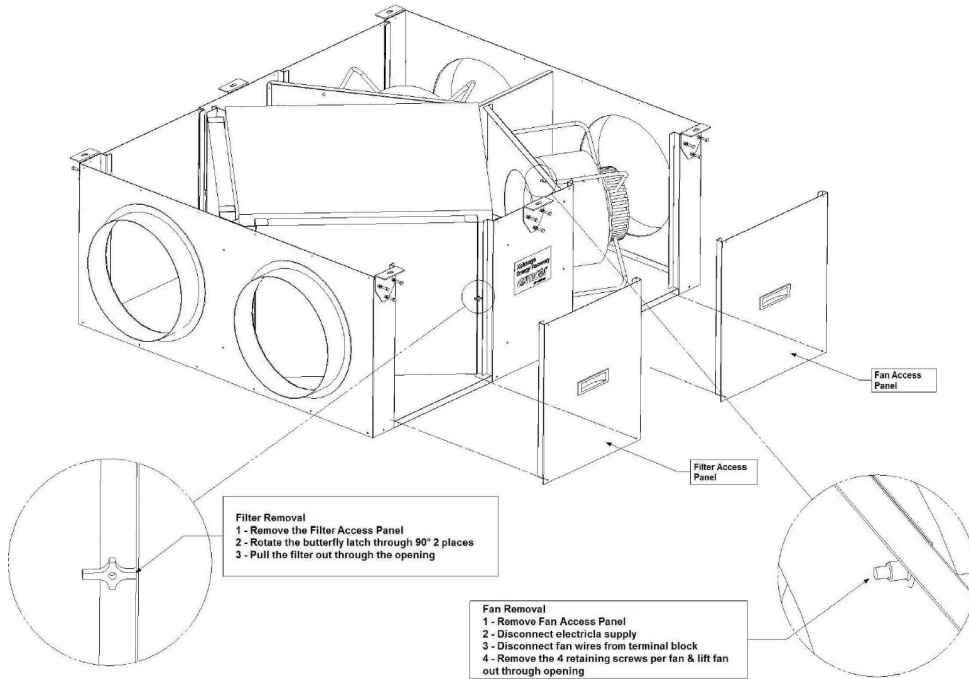
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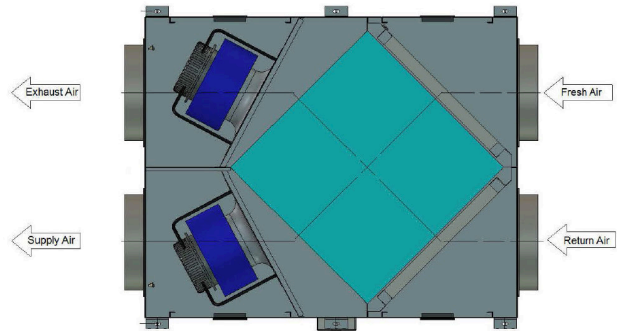
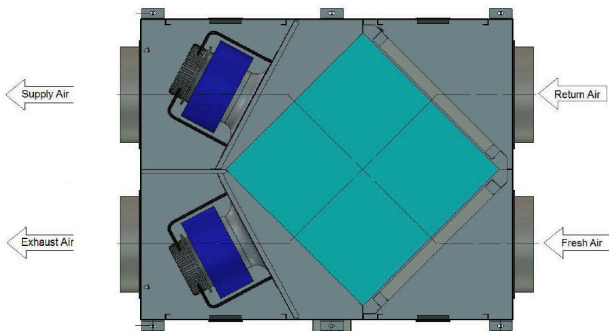
FILTER AND FAN ACCESS



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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