

XCHANGE ERV

HEAT RECOVERY

XCM900C1 TECHNICAL DATA



TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW		HEAT EXCHANGER	
Supply Air (l/sec)	900	Enthalpy Media	Standard
Exhaust Air (l/sec)	900	Sensible Media	Available
SUPPLY FAN		Corrosion Resistant Media	Available
Fan Type	Forward Curve Centrifugal	Velocity (m/sec)	1.73
Fan Motor	Direct Drive	Pressure Drop (Pa)	147
Motor Power (Watts)	950	Kw Recovered (Cooling)*	19.62
External Static (Pa)	150	Kw Recovered (Heating)*	15.61
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	2 x 50mm V Form Panel
Motor Power (Watts)	950	Efficiency	F4
External Static (Pa)	150	Disposable / Washable	Disposable
Speeds	3	OPTIONS	
Max Fan Speed (rpm)	1440	Hot Water Coil	Available (Model XCC900)
Motor Protection	Thermal Overload	Chilled Water Coil	Available (Model XCC900)
ELECTRICAL		Square Spigots/Metu Frames	Available
Supply Fan FLA (A)	6.0	Drain Try	Available
Exhaust Fan FLA (A)	6.0	Pressure Sensor	Available
Total Run Current (A)	12.0	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		

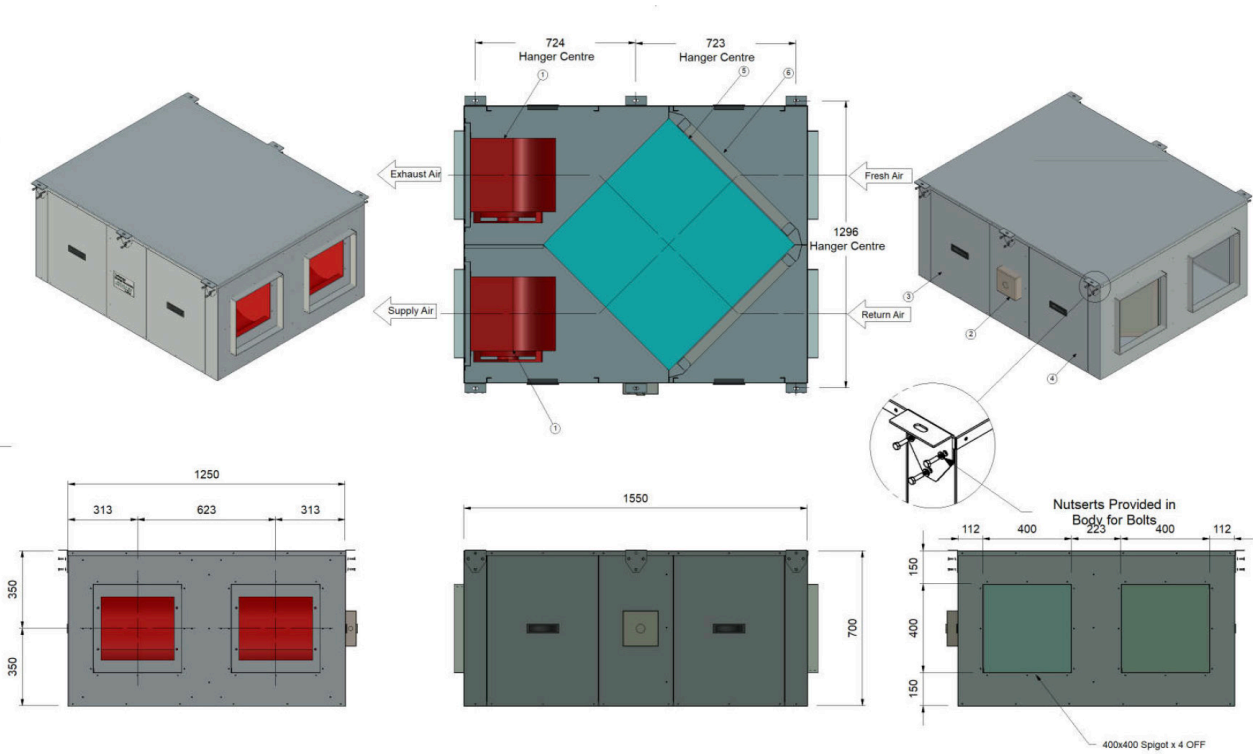
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TECHNICAL DRAWINGS



DIMENSIONS		DUCT SIZES	
Height (mm)	700	Exhaust Air (mm)	400 x 400
Width (mm)	1250	Return Air (mm)	400 x 400
Length (mm)	1550	Supply Air (mm)	400 x 400
Weight (Kg)	230	Fresh Air (mm)	400 x 400
Access Clearance (mm)	1200 (Controls & Filter Access)		
Access Clearance (mm)	750 (Filter Access)		

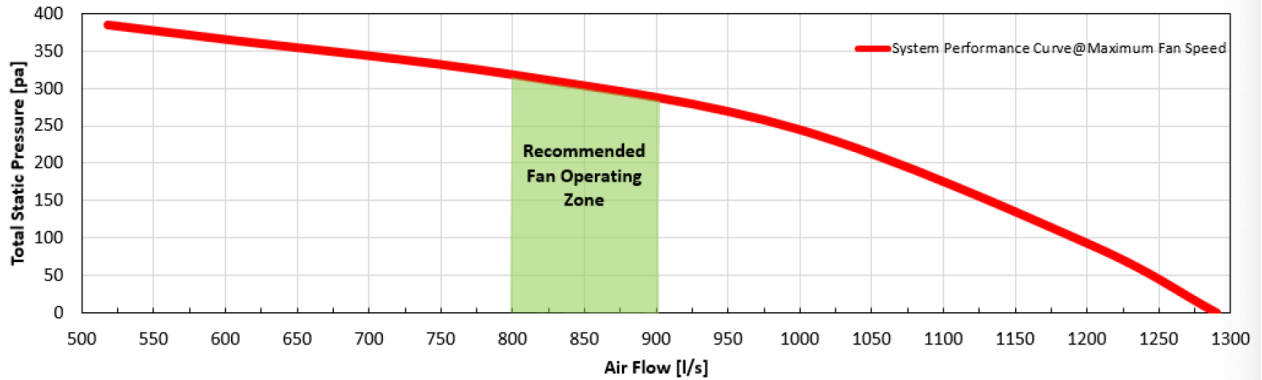
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FAN PERFORMANCE DATA

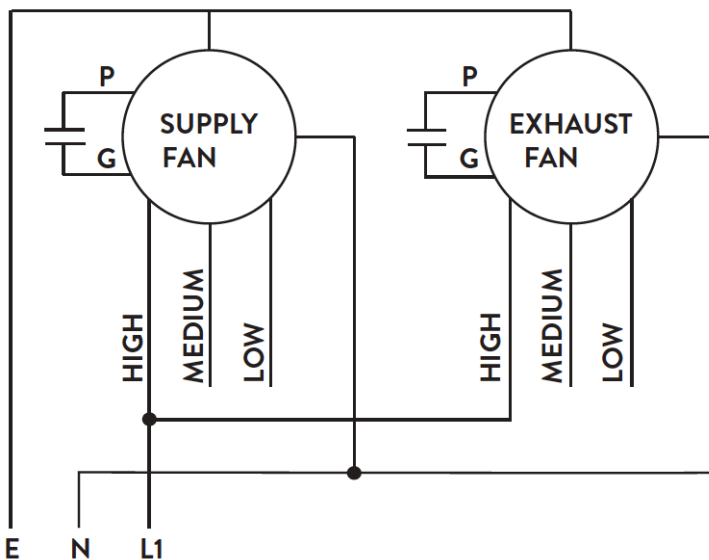


SOUND POWER LEVELS*

INLET RATING dB		INLET RATING dB	
63 Hz	32.0	1K Hz	48.0
125 Hz	40.0	2K Hz	44.0
250 Hz	45.0	4K Hz	31.0
500 Hz	47.0	8K Hz	27.0

* Sound Power Levels @600 Pa Total Static Pressure and 900 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

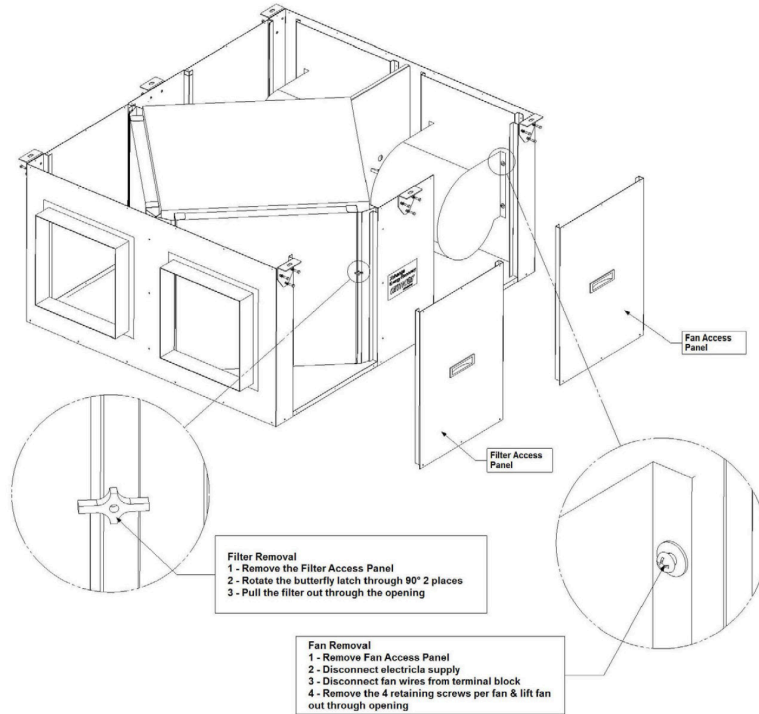
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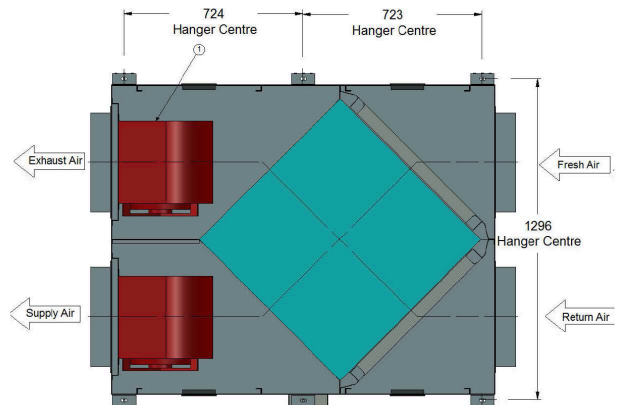
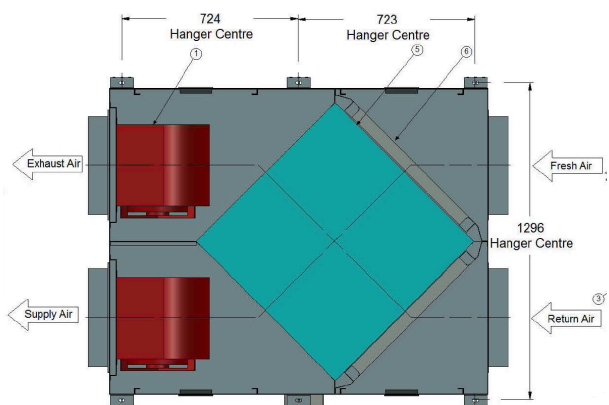
FILTER AND FAN ACCESS



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

A: 109-111 Northcorp Blvd
 Broadmeadows VIC 3047
www.armcor.com.au
 T: 03 8301 9200
 E: sales@armcor.com.au