XCHANGE ERV CEILING MOUNT

WITH CHILLED/HOT WATER COILS

XCC600P1 TECHNICAL DATA

armcor air solutions

TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW	
Supply Air (l/sec)	600
Exhaust Air (l/sec)	600

SUPPLY FAN	
Fan Type	EC Plug Fan
Fan Motor	EC External Rotor
Motor Power (Watts)	700
External Static (Pa)	250
Fan Diameter	250
Motor Start	Soft Start
Control Input	0-10V DC
Motor Protection	Thermal Overload

EXHAUST FAN	
Fan Type	EC Plug Fan
Fan Motor	EC External Rotor
Motor Power (Watts)	700
External Static (Pa)	250
Fan Diameter	250
Motor Start	Soft Start
Control Input	0-10V DC
Motor Protection	Thermal Overload

ELECTRICAL	
Supply Fan FLA (A)	3
Exhaust Fan FLA (A)	3
Total Run Current (A)	6
Volt/Phase	240V/1ph
Connection	Terminal Box

CONTROLS	
0-10V DC (Fan Control)	Included
24V AC Controls	Included
Fan Fault	Included

HEAT EXCHANGER	*RATED AT STANDARD CONDITIONS OF 35.5° db/24.0° wb
Enthalpy Media	Standard
Sensible Media	Available
Corrosion Resistant Media	Available
Velocity (m/sec)	2.06
Pressure Drop (Pa)	177
Kw Recovered (Cooling)*	12.69
Kw Recovered (Heating)*	10.1

CABINET CONSTRUCTION	
Casing	Galvanised Metal
Insulation Thickness / Density	25mm/48Kg/m^3
Hanging Brackets	Included

FILTERS	
Type	50mm V Form Panel - G4
Disposable / Washable	Disposable
Size L x W x D (mm)	495 x 395 x 50
Number of Filters	2

CHILLED WATER COIL - if required (Nom. rating)	
Total Capacity (Kw)	13.0
Size FL x FH (mm)	650 x 450
Water In (°C)/Water Out (°C)	7°/14°
Coil Coating	Epoxy
Face Velocity (m/sec)	2.0

HOT WATER COIL - if required (Nom. rating)	
Total Capacity (Kw)	13.0
Size FL x FH (mm)	650 x 450
Water In (°C)/Water Out (°C)	80°/60°
Coil Coating	Epoxy
Face Velocity (m/sec)	2.0

DX COIL - if required (Nom. rating)	
Total Capacity (Kw)	13.0
Size FL x FH (mm)	650 x 450
Refrigerant	R407C/R410A
Coil Coating	Epoxy
Face Velocity (m/sec)	2.0

OPTIONS	
Pressure Sensor	Available
CO2 Sensor	Available
Alarm Relay	Available

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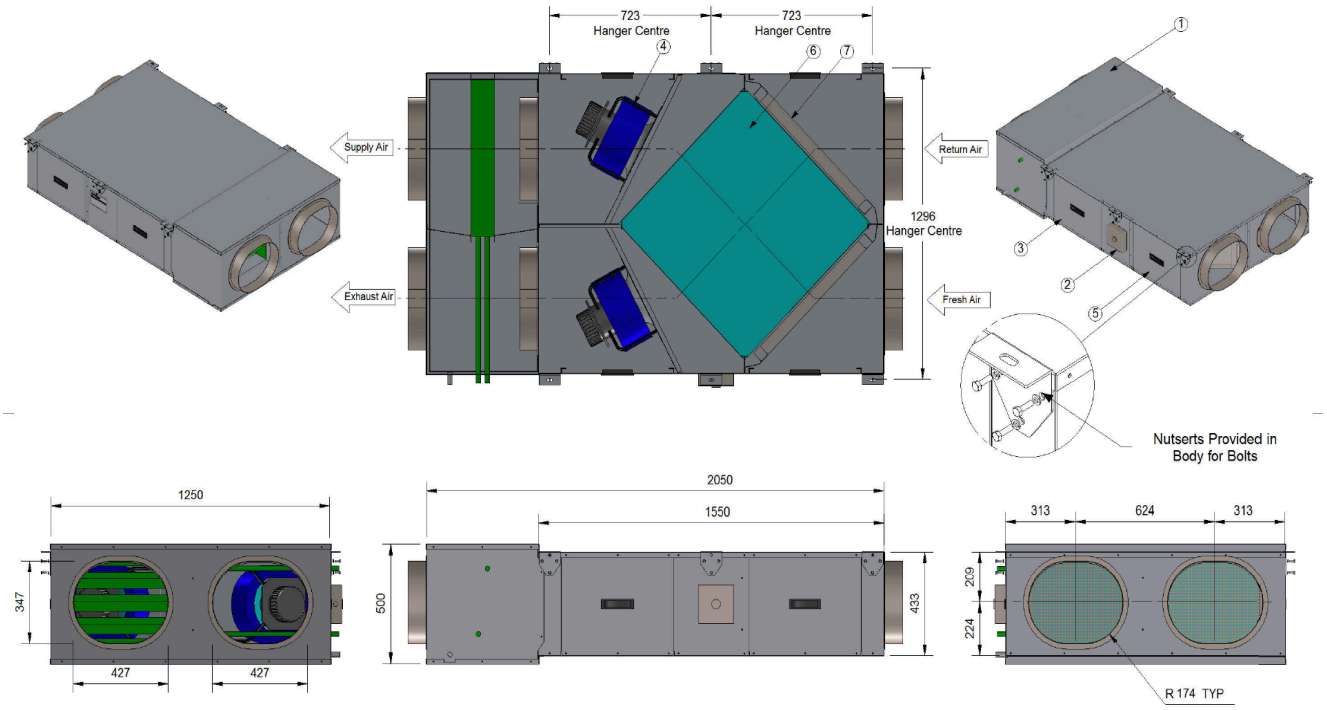
TECHNICAL DRAWINGS



DIMENSIONS	
Height (mm)	500
Width (mm)	1250
Length (mm)	2050
Weight (Kg)	265
Access Clearance (mm)	1000 (Controls & Filter Access)
Access Clearance (mm)	750 (Filter Access)

DUCT SIZES	
Exhaust Air (mm)	400 Ø
Return Air (mm)	400 Ø
Supply Air (mm)	400 Ø
Fresh Air (mm)	400 Ø

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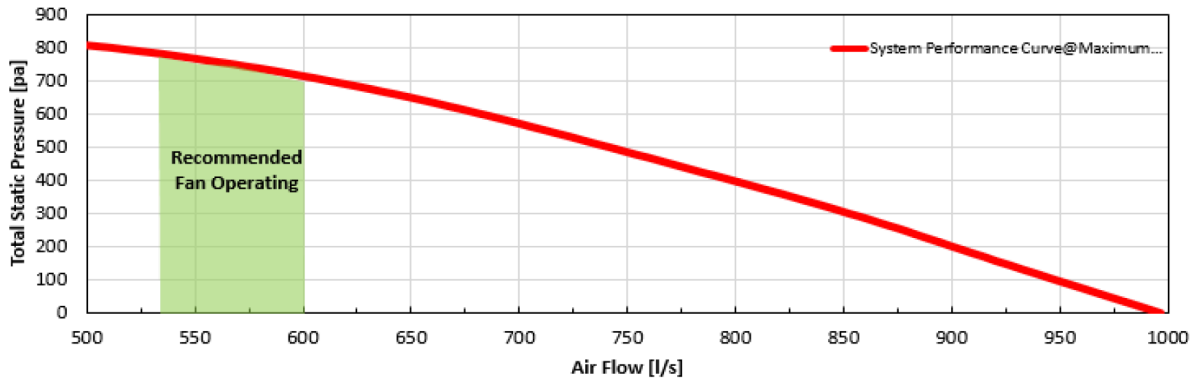
FAN PERFORMANCE DATA

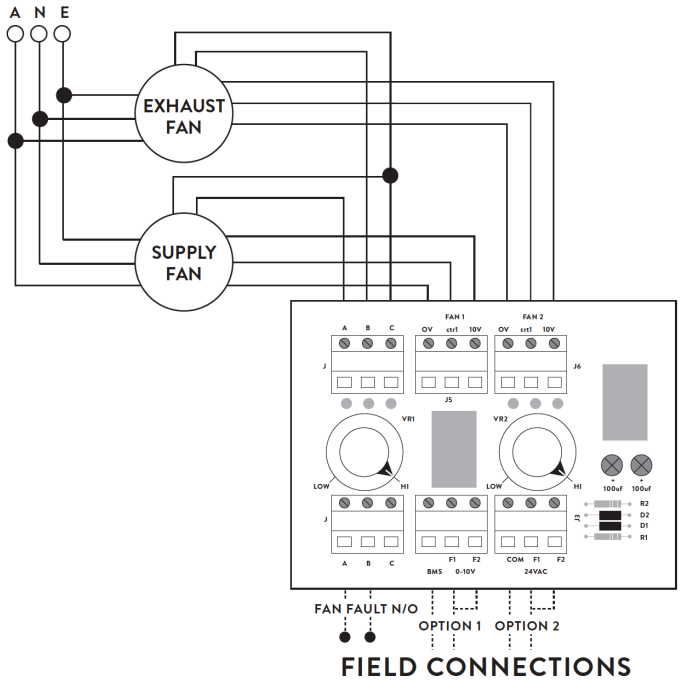


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	65.4	63 Hz	67.5
125 Hz	61.2	125 Hz	63.4
250 Hz	72	250 Hz	75.5
500 Hz	71	500 Hz	73.3
1 K Hz	68.9	1K Hz	77.6
2K Hz	73.1	2K Hz	79.6
4K Hz	73.3	4K Hz	77.7
8K Hz	66.9	8K Hz	71.3
LwA	78.7	LwA	84.4

* Sound Power Levels @600 Pa Total Static Pressure and 600 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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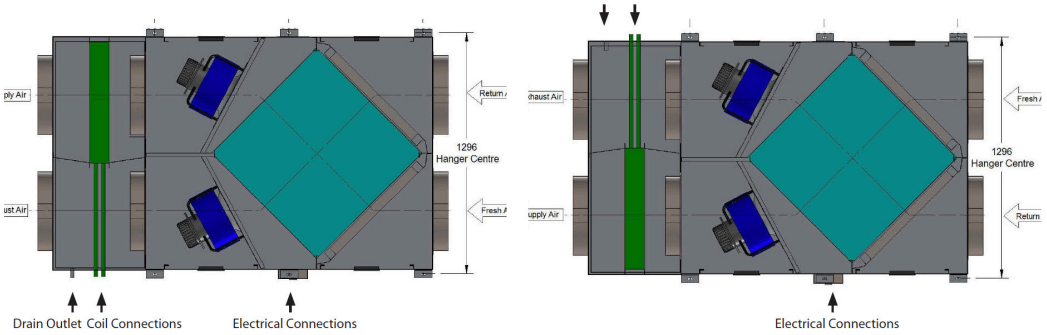
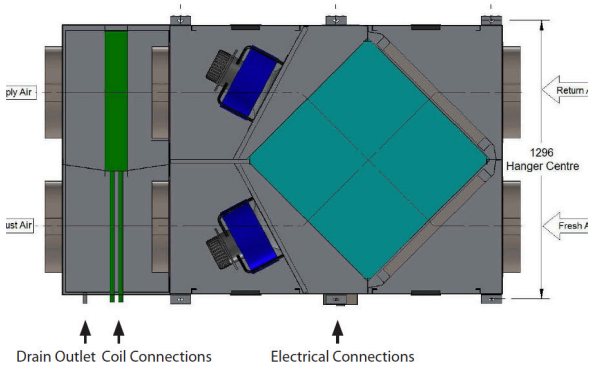
FILTER AND FAN ACCESS



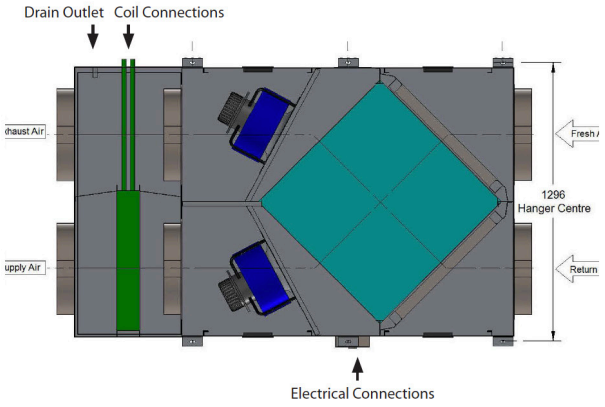
DUCTWORK CONNECTIONS

OPTION 1 IS THE STANDARD CONFIGURATION.



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.

OPTION 2 PROVIDES FOR OPPOSITE SIDE COIL CONNECTIONS AND ALTERNATIVE AIRFLOW ARRANGEMENTS. THIS MUST BE SPECIFIED WHEN ORDERING.



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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