

ROTARY HEAT WHEEL ERV

EXTERNAL MOUNT



REM2500P3 TECHNICAL DATA

TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW		ROTARY HEAT WHEEL	
Supply Air (l/sec)	2000 - 2500	Enthalpy Heat Wheel	Standard
Exhaust Air (l/sec)	2000 - 2500	Sensible Heat Wheel	Available
Return Air (l/sec)	2000 - 2500	Wheel Diameter (mm)	1880
Fresh Air (l/sec)	2000 - 2500	Efficiency %	86
SUPPLY FAN		Size L x W x D (mm)	2000 x 2000 x 400
Fan Type	Backward Curve	Media Face Velocity (m/sec)	1.83
Fan Motor	EC Motor	Pressure Drop (Pa)	134
Motor Power (Watts)	2825	Kw Recovered (Cooling)*	38.92
External Static (Pa)	250	Kw Recovered (Heating)*	65.5
Fan Diameter	500	CABINET CONSTRUCTION	
Number of Fans	1	Casing	50mm Panel
EXHAUST FAN		Insulation Value	R2.0
Fan Type	EC Plug	Side Access Panels	Included
Fan Motor	EC Motor	FILTERS	
Motor Power (Watts)	2825	Type	Deep Bed Filters F5
External Static (Pa)	250	Size L x W x D (mm)	610 x 610 x 380
Fan Diameter	500	Number of Filters	6
Number of Fans	1	OPTIONS	
ELECTRICAL		Chilled Water/Hot Water Coil	Available (Model REC2500)
Supply Fan FLA (A)	4.3 - 4.3 - 4.3	Evaporative Cooling Pad	Available (Model REC2500)
Exhaust Fan FLA (A)	4.3 - 4.3 - 4.3	Economy Cycle	Available
Rotary Wheel (A)	0.7 - 0.7 - 0.7	Return Air Bypass	Available
Nominal Run Current	9.3 - 9.3 - 9.3	75mm Panel Casing	Available
Volt/Phase	415V/3ph	Corrosion Resistant Lining	Available
Switchboard	Yes	Stainless Steel Drain Tray	Available
Circuit Breakers	Yes		
CONTROLS			
24V AC Enable Heat Wheel	Included		
0-10V DC (to suit BMS)	Included		
Heat Wheel VSD	Available		

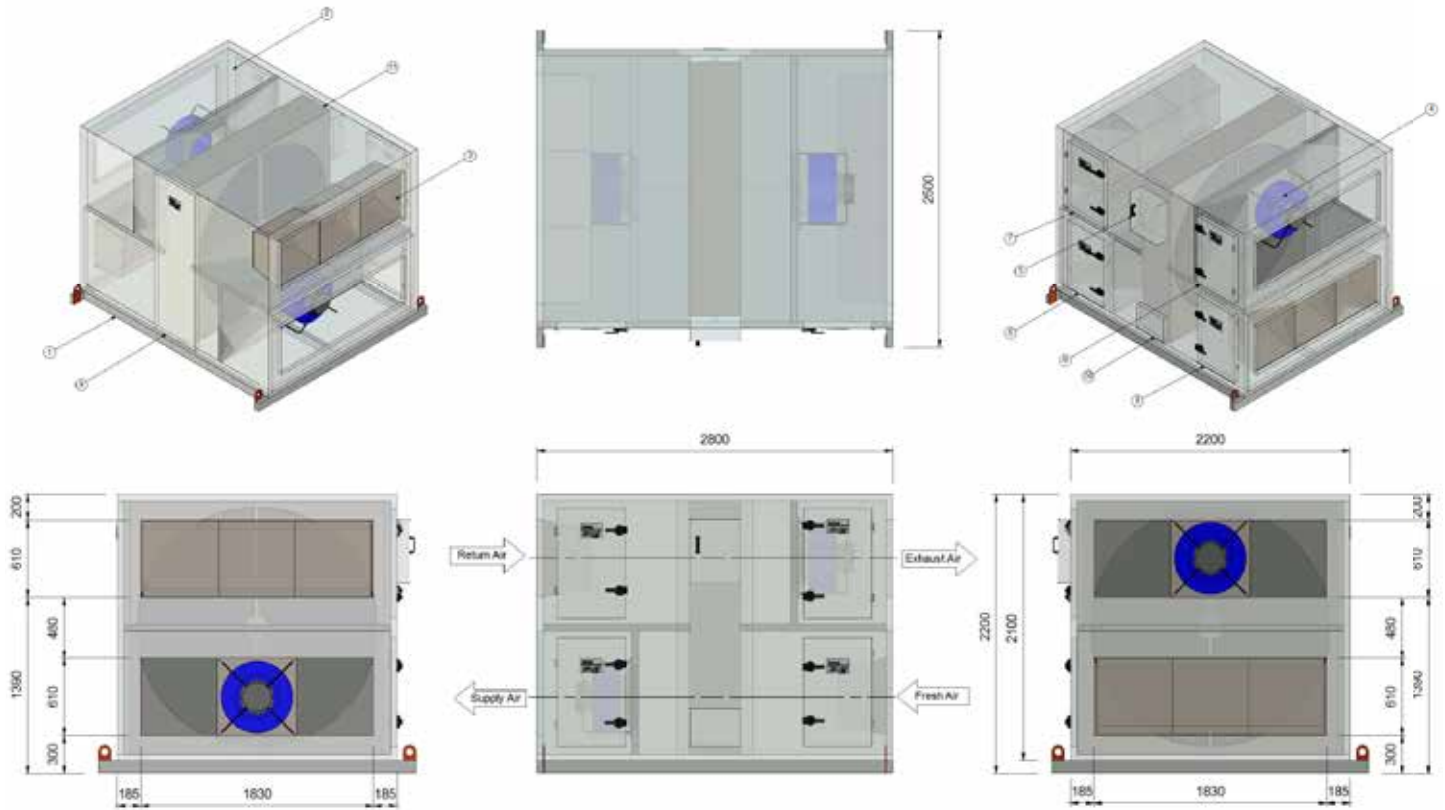
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TECHNICAL DRAWINGS



DIMENSIONS

Height (mm)	2200
Width (mm)	2200
Length (mm)	2800
Weight (Kg)	1160
Access Clearance (mm)	800 (Controls & Filter Access)
Access Clearance (mm)	300

DUCT SIZES

Exhaust Air (mm)	1830 x 610
Return Air (mm)	1830 x 610
Supply Air (mm)	1830 x 610
Fresh Air (mm)	1830 x 610

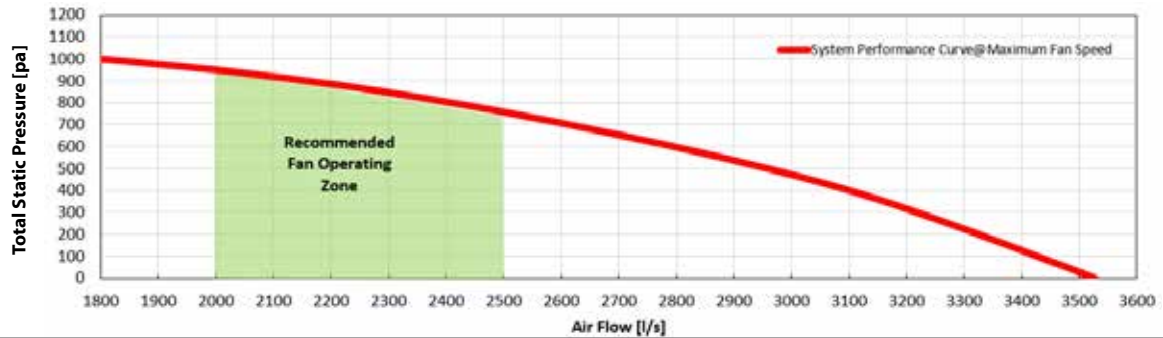
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FAN PERFORMANCE DATA

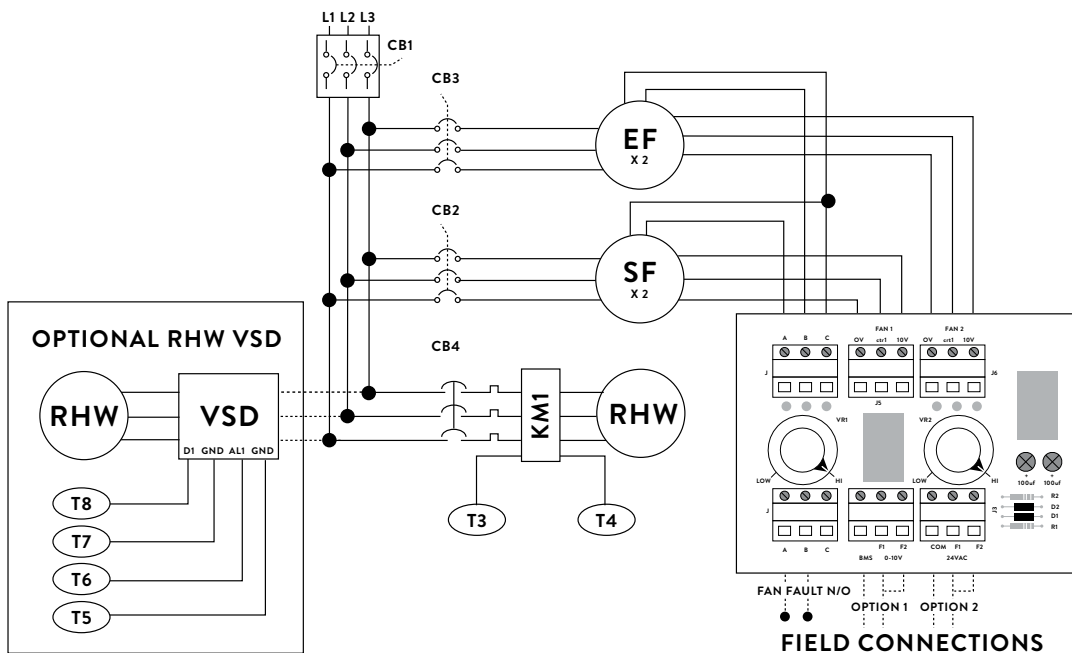


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	70.1	63 Hz	72.1
125 Hz	71	125 Hz	73.5
250 Hz	79.3	250 Hz	79.6
500 Hz	75.9	500 Hz	81.1
1K Hz	73.7	1K Hz	82.7
2K Hz	74.3	2K Hz	79.8
4K Hz	71.7	4K Hz	76
8K Hz	70.3	8K Hz	73
LwA	80.6	LwA	86.5

* Sound Power Levels @ 550 Pa Total Static Pressure and 2500 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

Designed and manufactured in Australia

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