

ROTARY HEAT WHEEL ERV

EXTERNAL MOUNT



REM2000P3 TECHNICAL DATA

TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW	
Supply Air (l/sec)	1800 - 2000
Exhaust Air (l/sec)	1800 - 2000
Return Air (l/sec)	1800 - 2000
Fresh Air (l/sec)	1800 - 2000

SUPPLY FAN	
Fan Type	EC Plug
Fan Motor	EC Motor
Motor Power (Watts)	2825
External Static (Pa)	250
Fan Diameter	500
Number of Fans	1

EXHAUST FAN	
Fan Type	EC Plug
Fan Motor	EC Motor
Motor Power (Watts)	2825
External Static (Pa)	250
Fan Diameter	500
Number of Fans	1

ELECTRICAL	
Supply Fan FLA (A)	4.3 - 4.3 - 4.3
Exhaust Fan FLA (A)	4.3 - 4.3 - 4.3
Rotary Wheel (A)	0.7 - 0.7 - 0.7
Nominal Run Current	9.3 - 9.3 - 9.3
Volt/Phase	415V/3ph
Switchboard	Yes
Circuit Breakers	Yes

CONTROLS	
0-10V DC (Fan Control)	Included
24V AC Enable Heat Wheel	Included
Heat Wheel VSD	Available

ROTARY HEAT WHEEL	
*RATED AT STANDARD CONDITIONS OF SUMMER 35.5°db/40%RH WINTER 3°db/68%RH	
Enthalphy Heat Wheel	Standard
Sensible Heat Wheel	Available
Wheel Diameter (mm)	1630
Efficiency %	84.9
Size L x W x D (mm)	1750 x 1750 x 400
Media Face Velocity (m/sec)	1.65
Pressure Drop (Pa)	96
Kw Recovered (Cooling)*	26.06
Kw Recovered (Heating)*	43.84

CABINET CONSTRUCTION	
Casing	50mm Panel
Insulation Value	R2.0
Side Access Panels	Included

FILTERS	
Type	Deep Bed Filters F5
Size L x W x D (mm)	610 x 610 x 380
Number of Filters	4
Size L x W x D (mm)	610 x 305 x 380
Number of Filters	2

OPTIONS	
Chilled Water/Hot Water Coil	Available (Model REC2000)
Evaporative Cooling Pad	Available (Model REI2000)
Economy Cycle	Available
Return Air Bypass	Available
75mm Panel Casing	Available
Corrosion Resistant Lining	Available
Stainless Steel Drain Tray	Available

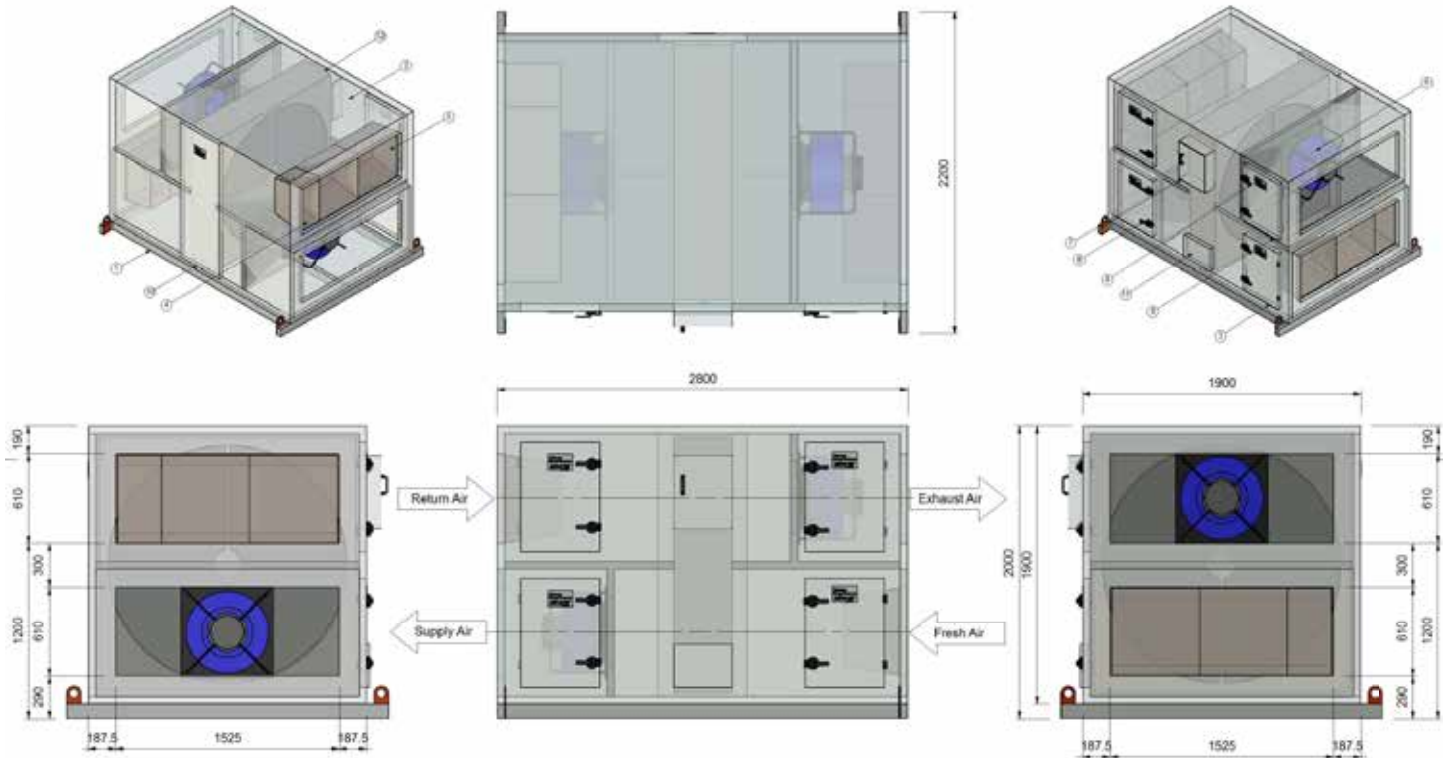
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TECHNICAL DRAWINGS



DIMENSIONS	
Height (mm)	2000
Width (mm)	1900
Length (mm)	2800
Weight (Kg)	990
Access Clearance (mm)	800 (Controls & Filter Access)
Access Clearance (mm)	300

DUCT SIZES	
Exhaust Air (mm)	1525 x 610
Return Air (mm)	1525 x 610
Supply Air (mm)	1525 x 610
Fresh Air (mm)	1525 x 610

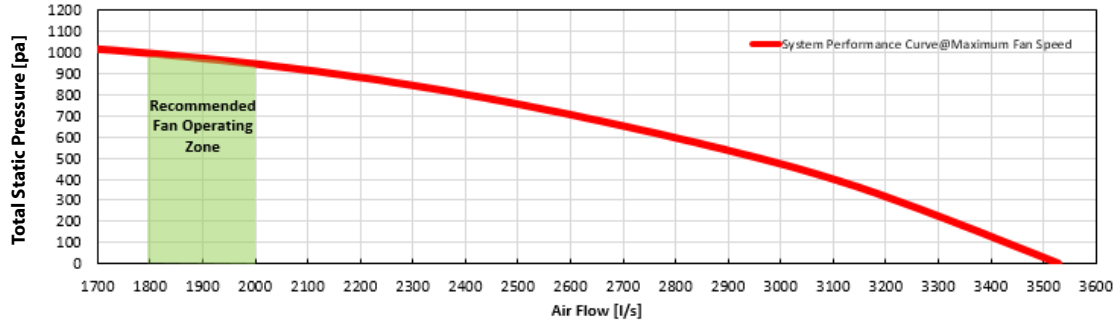
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FAN PERFORMANCE DATA

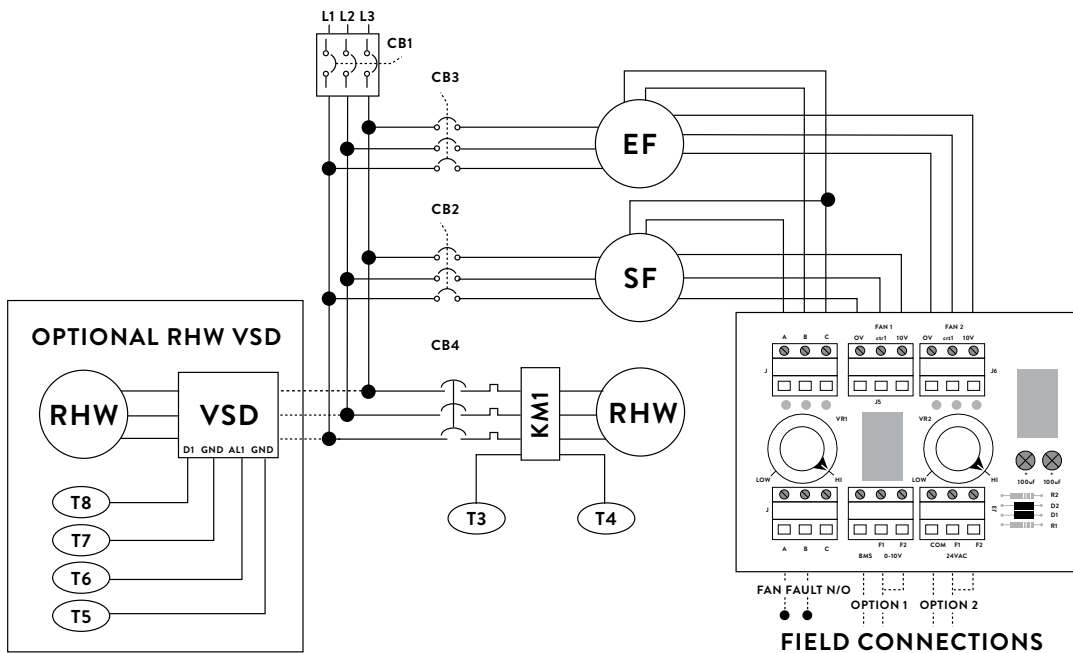


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	69.2	63 Hz	70.8
125 Hz	73.8	125 Hz	75.3
250 Hz	75.8	250 Hz	76.4
500 Hz	72.6	500 Hz	78
1K Hz	70.7	1K Hz	79.4
2K Hz	70.4	2K Hz	76.3
4K Hz	68.3	4K Hz	72.9
8K Hz	64	8K Hz	67.5
LwA	77.1	LwA	83.2

* Sound Power Levels @ 550 Pa Total Static Pressure and 2000 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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