

ROTARY HEAT WHEEL ERV

EXTERNAL MOUNT



REM7000P3 TECHNICAL DATA

TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW

Supply Air (l/sec)	7000
Exhaust Air (l/sec)	7000
Return Air (l/sec)	7000
Fresh Air (l/sec)	7000

SUPPLY FAN

Fan Type	EC Plug
Fan Motor	EC Motor
Motor Power (Watts)	2825
External Static (Pa)	250
Fan Diameter	500
Number of Fans	3

EXHAUST FAN

Fan Type	EC Plug
Fan Motor	EC Motor
Motor Power (Watts)	2825
External Static (Pa)	250
Fan Diameter	500
Number of Fans	3

ELECTRICAL

Supply Fan FLA (A)	12.9-12.9-12.9
Exhaust Fan FLA (A)	12.9-12.9-12.9
Rotary Wheel (A)	1.4-1.4-1.4
Nominal Run Current	27.2-27.2-27.2
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)	2 x 2090
Efficiency %	84.4
Size L x W x D (mm)	2250 x 2250 x 440
Media Face Velocity (m/sec)	2.07
Pressure Drop (Pa)	152
Kw Recovered (Cooling)*	107.3
Kw Recovered (Heating)*	180.04

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	12
Size L x W x D (mm)	610 x 305 x 380
Number of Filters	12

OPTIONS

Chilled Water/Hot Water Coil	Available (Model REC7000)
Evaporative Cooling Pad	Available (Model REI7000)
Economy Cycle	Available
Return Air Bypass	Available
75mm Panel Casing	Available
Corrosion Resistant Lining	Available
Stainless Steel Drain Tray	Available

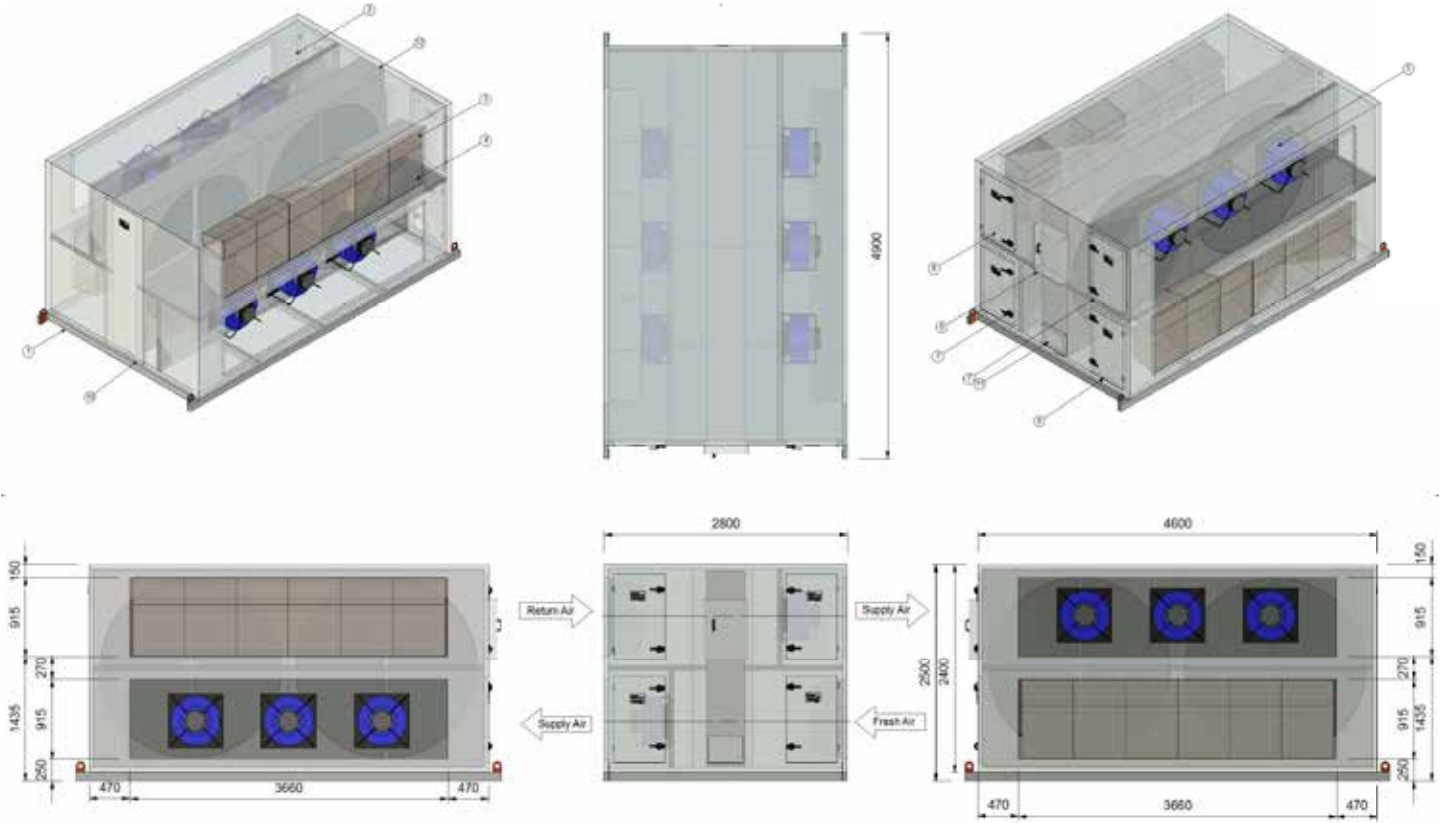
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TECHNICAL DRAWINGS



DIMENSIONS

Height (mm)	2500
Width (mm)	4600
Length (mm)	2800
Weight (Kg)	3350
Access Clearance (mm)	1200 (Controls & Filter Access)
Access Clearance (mm)	300

DUCT SIZES

Exhaust Air (mm)	3660 x 915
Return Air (mm)	3660 x 915
Supply Air (mm)	3660 x 915
Fresh Air (mm)	3660 x 915

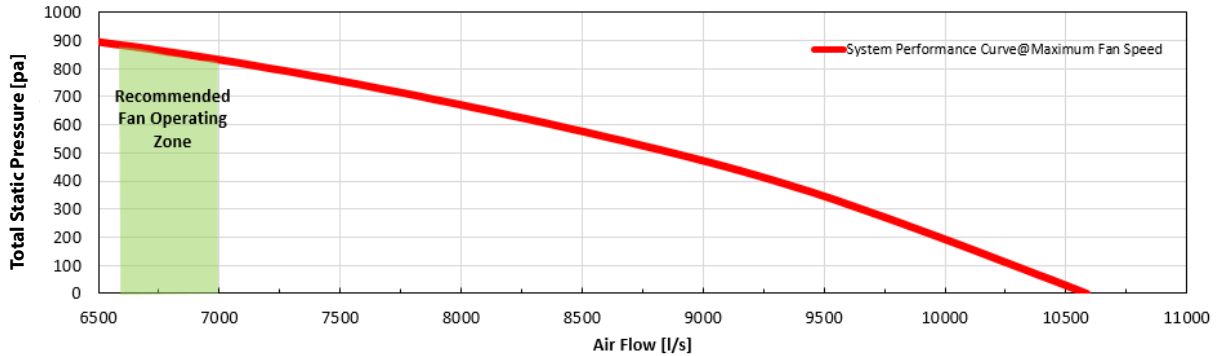
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FAN PERFORMANCE DATA

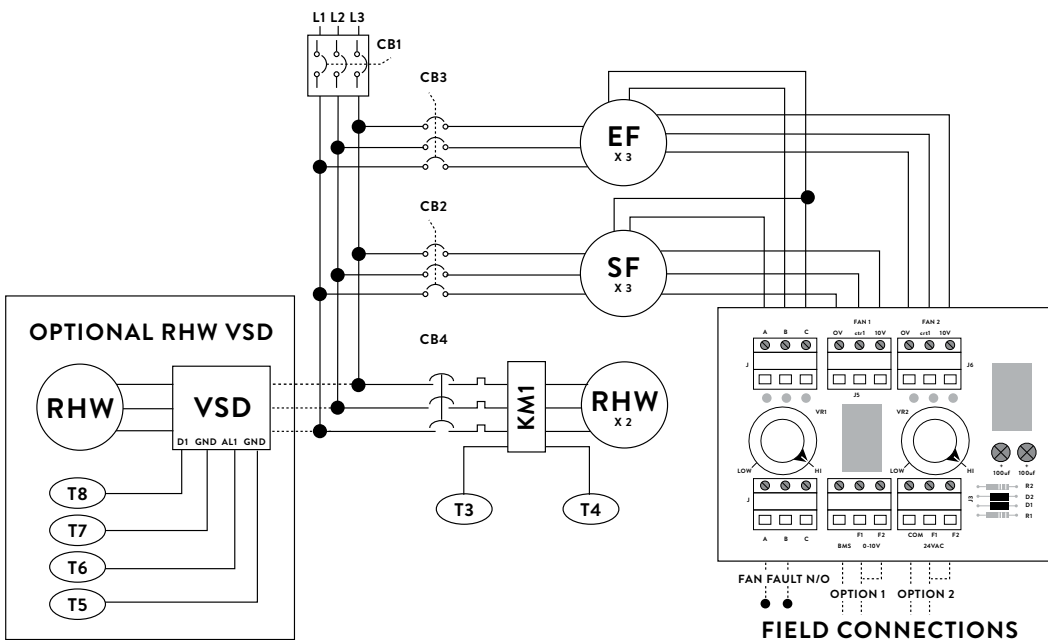


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	69	63 Hz	71.1
125 Hz	71.1	125 Hz	73.4
250 Hz	77.8	250 Hz	78.3
500 Hz	74.6	500 Hz	79.8
1K Hz	72.4	1K Hz	81.2
2K Hz	72.4	2K Hz	78.1
4K Hz	70.5	4K Hz	74.9
8K Hz	67	8K Hz	70.1
LwA	79.1	LwA	85.1

* Sound Power Levels @ 550 Pa Total Static Pressure and 7000 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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