

# ROTARY HEAT WHEEL ERV



## External Mount Unit

### REM8000P3 Technical Data

#### Technical Specifications

##### Nominal Airflow

Supply Air (l/sec)	8000
Exhaust Air (l/sec)	8000
Return Air (l/sec)	8000
Fresh Air (l/sec)	8000

##### Supply Fan

Fan Type	EC Plug Fan
Motor Power (Watts)	4500
External Static (Pa)	250
Fan Diameter	450
Number of Fans	3

##### Exhaust Fan

Fan Type	EC Plug
Motor Power (Watts)	4500
External Static (Pa)	250
Fan Diameter	450
Number of Fans	3

##### Electrical

Supply Fan FLA (A)	20.4 - 20.4 - 20.4
Exhaust Fan FLA (A)	20.4 - 20.4 - 20.4
Rotary Wheel (A)	1.4 - 1.4 - 1.4
Nominal Run Current (A)	42.2 - 42.2 - 42.2
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	Included

##### Rotary Heat Wheel

\*Rated at standard conditions of Summer 35.5° db/40% RH Winter 3° db/68%RH

Sensible Heat Wheel	Standard
Enthalpy Heat Wheel	Available
Wheel Diameter (mm)	2 X 2340
Efficiency %	84.1
Size L x W x D (mm)	2500 x 2500 x 440
Media Face Velocity (m/sec)	2.12
Pressure Drop (Pa)	156
Kw Recovered (Cooling)*	137.5
Kw Recovered (Heating)*	230.70

##### Cabinet Construction

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

##### Filters

Type	Deep Bed Filters F6
Size L x W x D (mm)	610 x 610 x 380
Number of Filters	14
Size L x W x D (mm)	610 x 305 x 380
Number of Filters	14

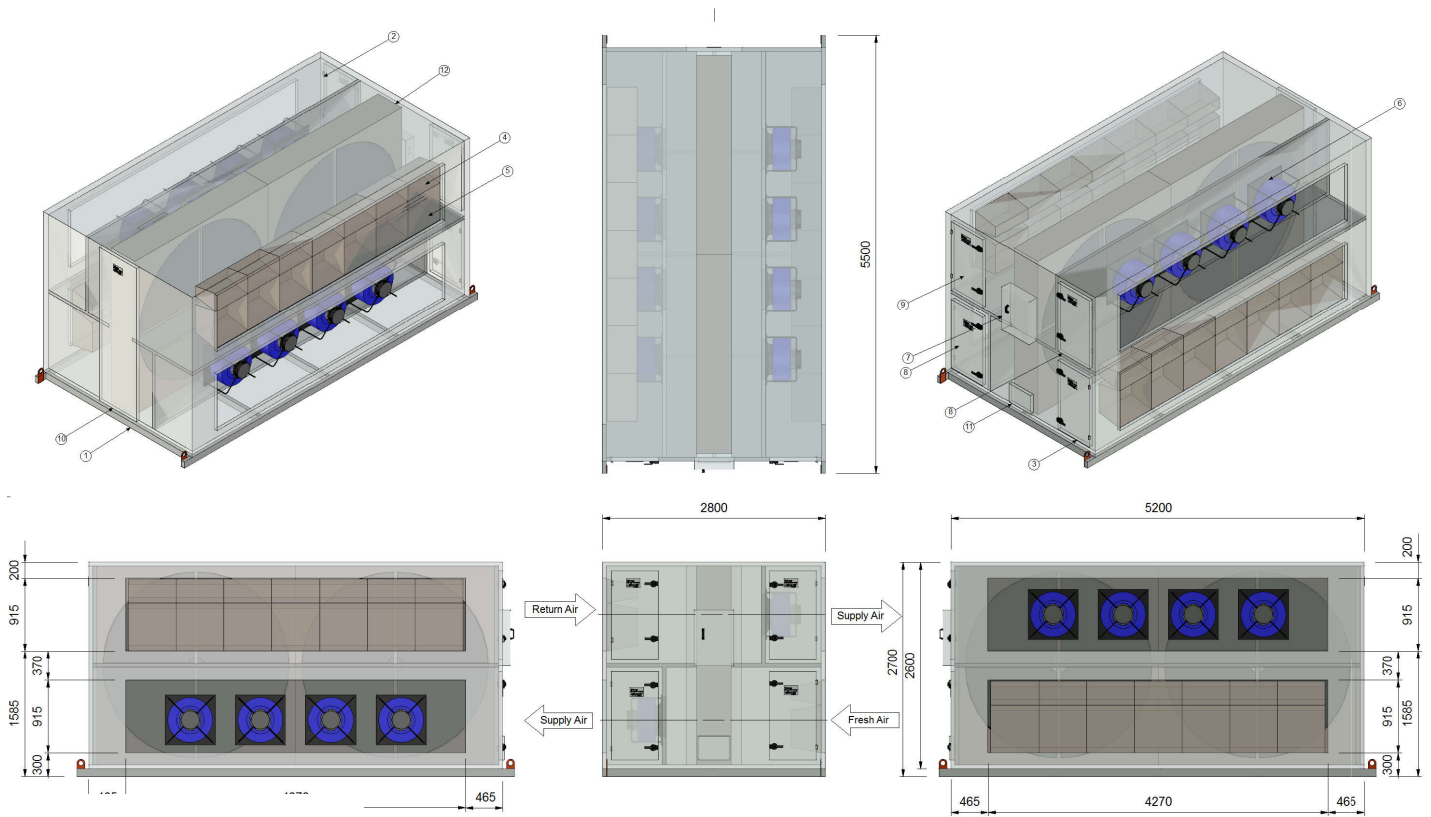
##### Options

Chilled Water/ Hot Water Coil	Available (Model REC8000)
Corrosion Resistant Lining	Available
Stainless Steel Drain Tray	Available

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### Technical Drawings – REM8000P3



Dimension	
Height (mm)	2700
Width (mm)	5200
Length (mm)	2800
Weight (Kg)	3950
Access Clearance (mm)	1200 (Controls & Filter Access)
Access Clearance (mm)	300

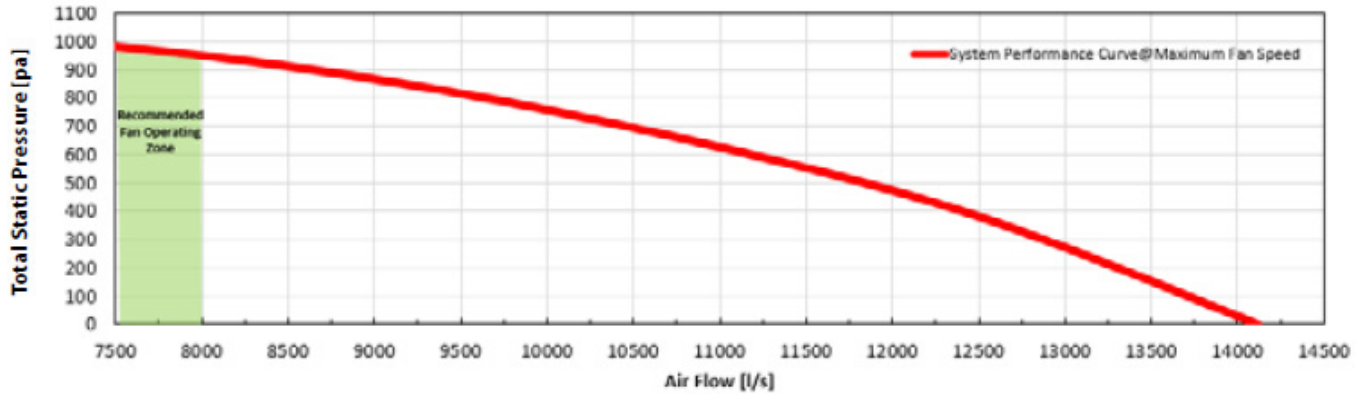
Duct Sizes	
Exhaust Air (mm)	4270 x 915
Return Air (mm)	4270 x 915
Supply Air (mm)	4270 x 915
Fresh Air (mm)	4270 x 915

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### Fan Performance Data

\*Duty point - 8000 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)

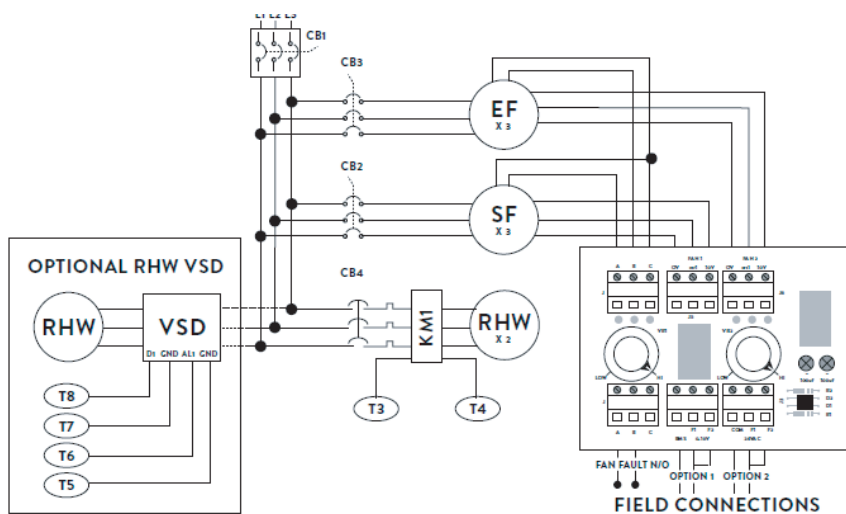


### Sound Power Levels

\*Sound power levels at 650 Pa Total Static Pressure and 8000 L/s Total Air Volume

Inlet Rating dB (A)		Outlet Rating dB (A)	
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
1 K 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

### 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.

