

ROTARY HEAT WHEEL ERV



External Mount Unit

REM1200P3 Technical Data

Technical Specifications

Nominal Airflow

Supply Air (l/sec)	1000 - 1200
Exhaust Air (l/sec)	1000 - 1200
Return Air (l/sec)	1000 - 1200
Fresh Air (l/sec)	1000 - 1200

Supply Fan

Fan Type	EC Plug Fan
Motor Power (Watts)	1900
External Static (Pa)	200
Fan Diameter	355
Number of Fans	1

Exhaust Fan

Fan Type	EC Plug
Motor Power (Watts)	1900
External Static (Pa)	200
Fan Diameter	355
Number of Fans	1

Electrical

Supply Fan FLA (A)	3.0 - 3.0 - 3.0
Exhaust Fan FLA (A)	3.0 - 3.0 - 3.0
Rotary Wheel (A)	0.36 - 0.36 - 0.36
Nominal Run Current (A)	6.36 - 6.36 - 6.36
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)	1380
Efficiency %	85.1
Size L x W x D (mm)	1500 x 1500 x 400
Media Face Velocity (m/sec)	1.63
Pressure Drop (Pa)	94
Kw Recovered (Cooling)*	18.4
Kw Recovered (Heating)*	31.01

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	2
Size L x W x D (mm)	610 x 305 x 380
Number of Filters	2

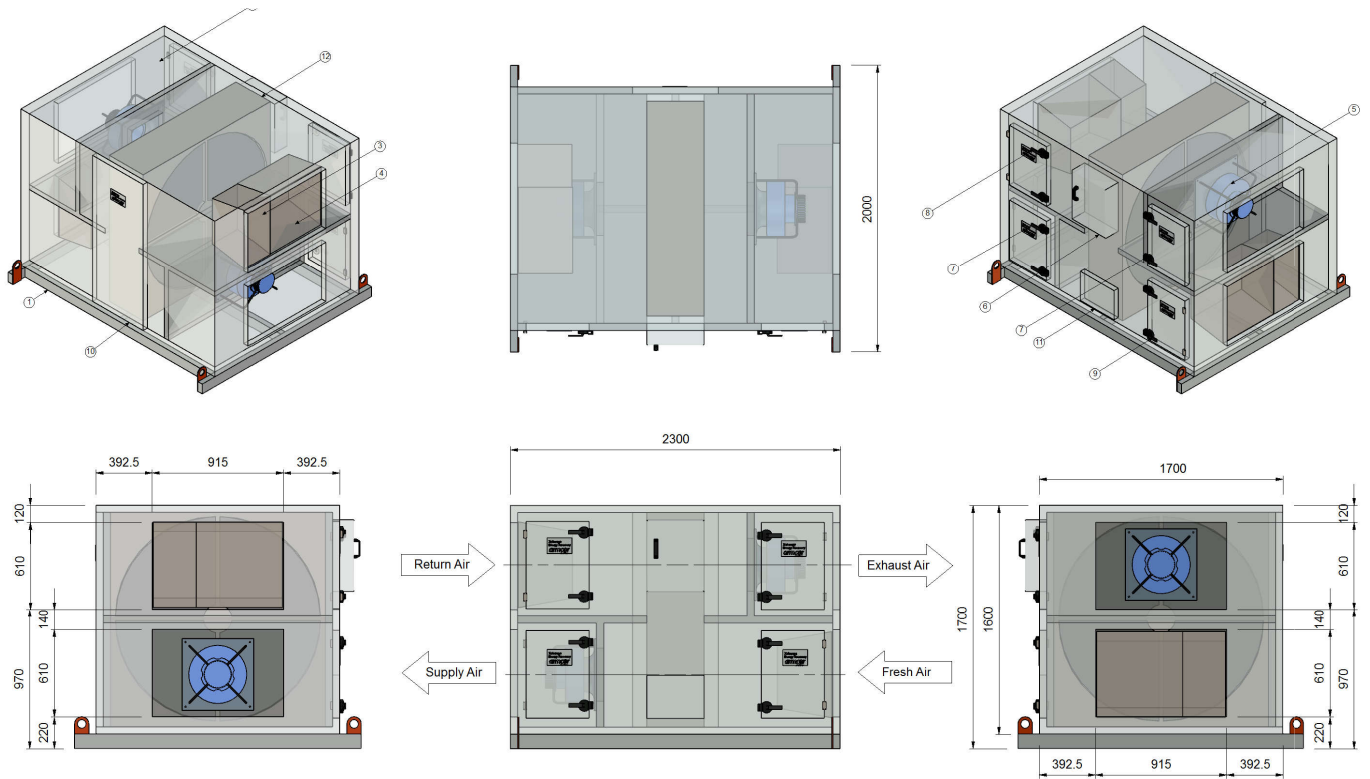
Options

Chilled Water/ Hot Water Coil	Available (Model REC1200)
Corrosion Resistant Lining	Available
Stainless Steel Drain Tray	Available

ROTARY HEAT WHEEL - ERV

External Mount Unit – REM1200P3 Technical Data

Technical Drawings – REM1200P3

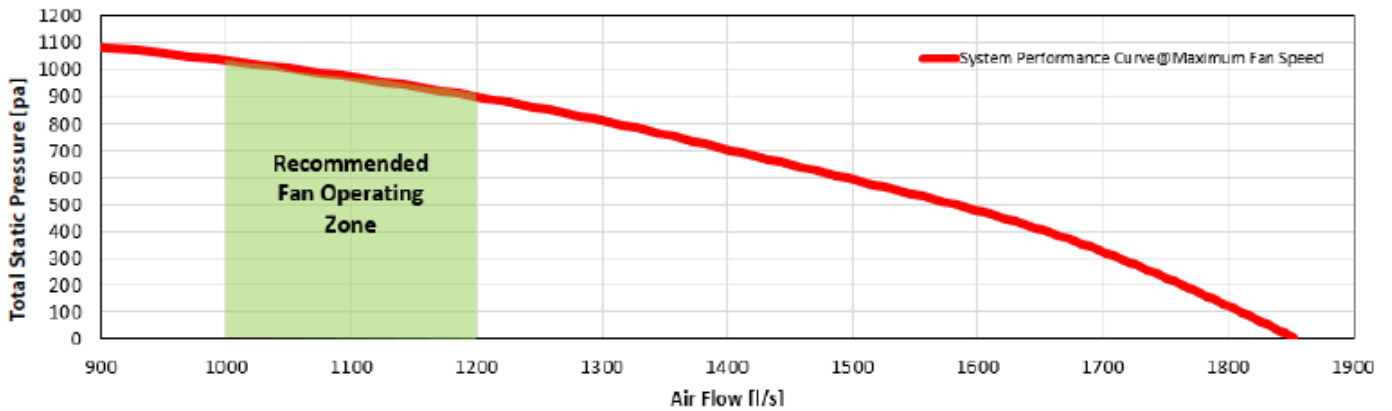


Dimension	
Height (mm)	1700
Width (mm)	1700
Length (mm)	2300
Weight (Kg)	760
Access Clearance (mm)	800 (Controls & Filter Access)
Access Clearance (mm)	300

Duct Sizes	
Exhaust Air (mm)	915 x 610
Return Air (mm)	915 x 610
Supply Air (mm)	915 x 610
Fresh Air (mm)	915 x 610

Fan Performance Data

*Duty point - 1200 L/s at 600 Pa Total Static Pressure (250Pa External Static Pressure)



Sound Power Levels

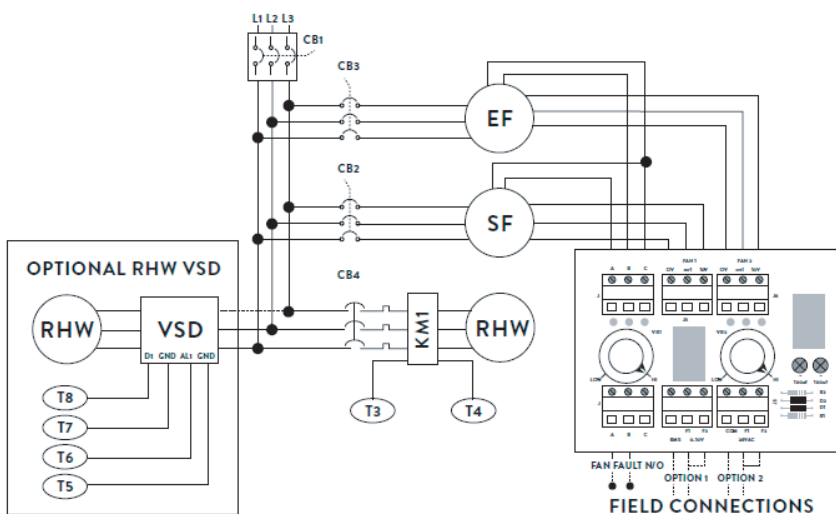
*Sound power levels at 500 Pa Total Static Pressure and 1200 L/s Total Air Volume

Inlet Rating dB (A)

Outlet Rating dB (A)

63 Hz	65.8	63 Hz	68.2
125 Hz	65.1	125 Hz	66.5
250 Hz	75.3	250 Hz	75.5
500 Hz	74.1	500 Hz	77.4
1 K Hz	69.5	1K Hz	79.5
2K Hz	70.3	2K Hz	76.7
4K Hz	67.3	4K Hz	72.3
8K Hz	67.1	8K Hz	70.1
LwA	77.1	LwA	83.3

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.

