

ROTARY HEAT WHEEL ERV

EXTERNAL MOUNT



REM900P3 TECHNICAL DATA

TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW

Supply Air (l/sec)	600 - 900
Exhaust Air (l/sec)	600 - 900
Return Air (l/sec)	600 - 900
Fresh Air (l/sec)	600 - 900

SUPPLY FAN

Fan Type	EC Plug
Fan Motor	EC Motor
Motor Power (Watts)	1700
External Static (Pa)	200
Fan Diameter	355
Number of Fans	1

EXHAUST FAN

Fan Type	EC Plug
Fan Motor	EC Motor
Motor Power (Watts)	1700
External Static (Pa)	200
Fan Diameter	355
Number of Fans	1

ELECTRICAL

Supply Fan FLA (A)	2.6 - 2.6 - 2.6
Exhaust Fan FLA (A)	2.6 - 2.6 - 2.6
Rotary Wheel (A)	0.36 - 0.36 - 0.36
Nominal Run Current	5.56 - 5.56 - 5.56
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

Enthalpy Heat Wheel	Standard
Sensible Heat Wheel	Available
Wheel Diameter (mm)	1155
Efficiency %	84.3
Size L x W x D (mm)	1250 x 1250 x 400
Media Face Velocity (m/sec)	1.74
Pressure Drop (Pa)	101
Kw Recovered (Cooling)*	13.68
Kw Recovered (Heating)*	23.04

CABINET CONSTRUCTION

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

FILTERS

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

OPTIONS

Chilled Water/ Hot Water Coil	Available (Model REC900)
Evaporative Cooling Pad	Available (Model REI900)
Economy Cycle	Available
Return Air Bypass	Available
75mm Panel Casing	Available
Corrosion Resistant Lining	Available
Stainless Steel Drain Tray	Available

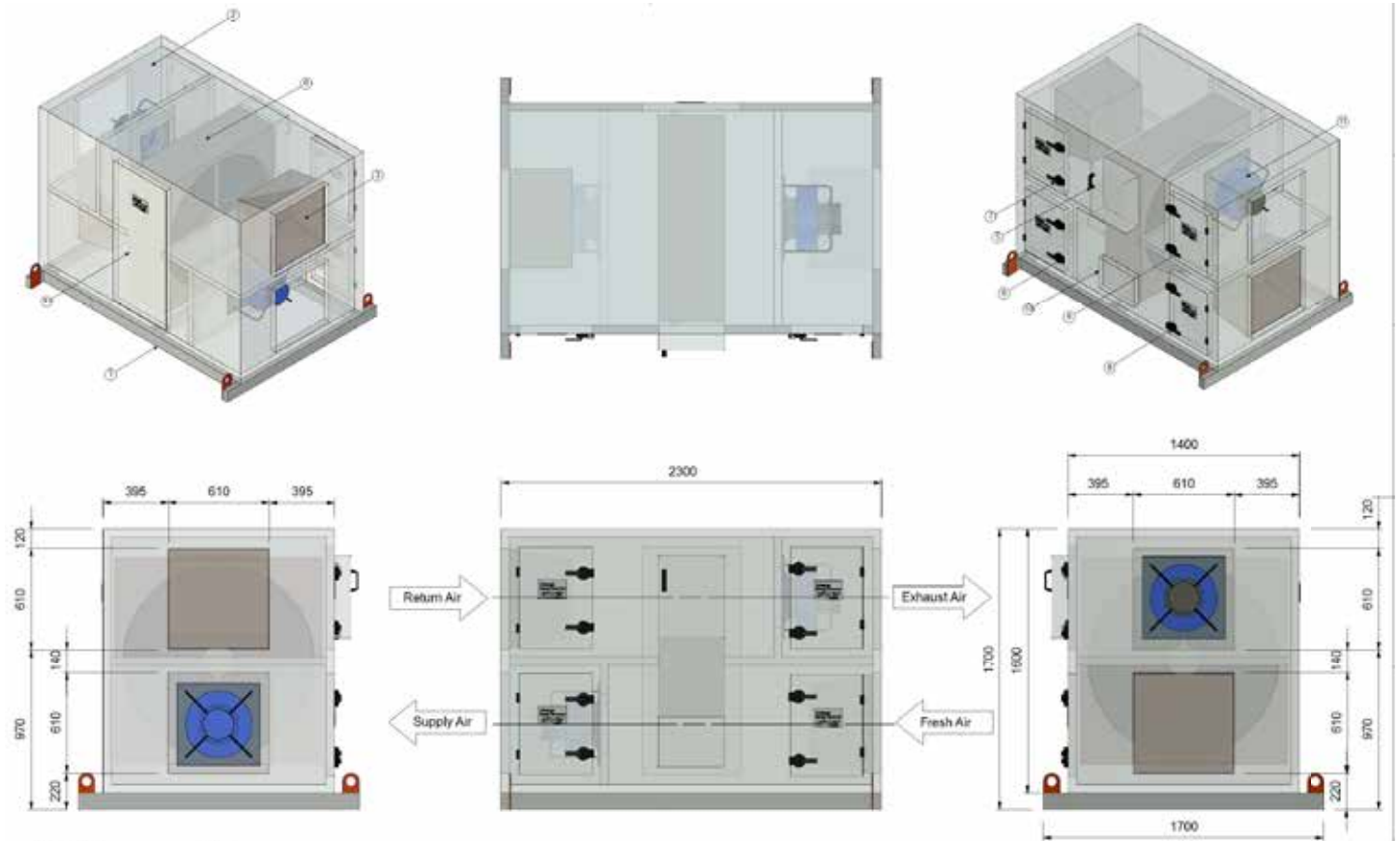
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TECHNICAL DRAWINGS



DIMENSIONS	
Height (mm)	1700
Width (mm)	1400
Length (mm)	2300
Weight (Kg)	650
Access Clearance (mm)	800 (Controls & Filter Access)
Access Clearance (mm)	300

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

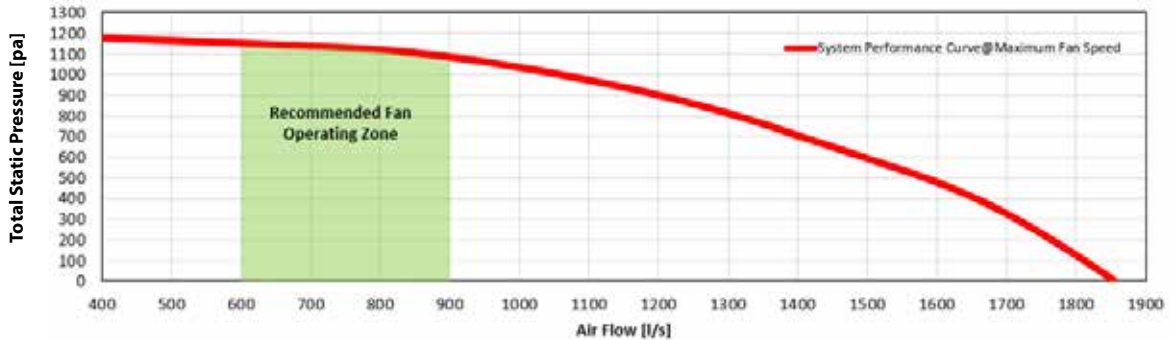
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FAN PERFORMANCE DATA

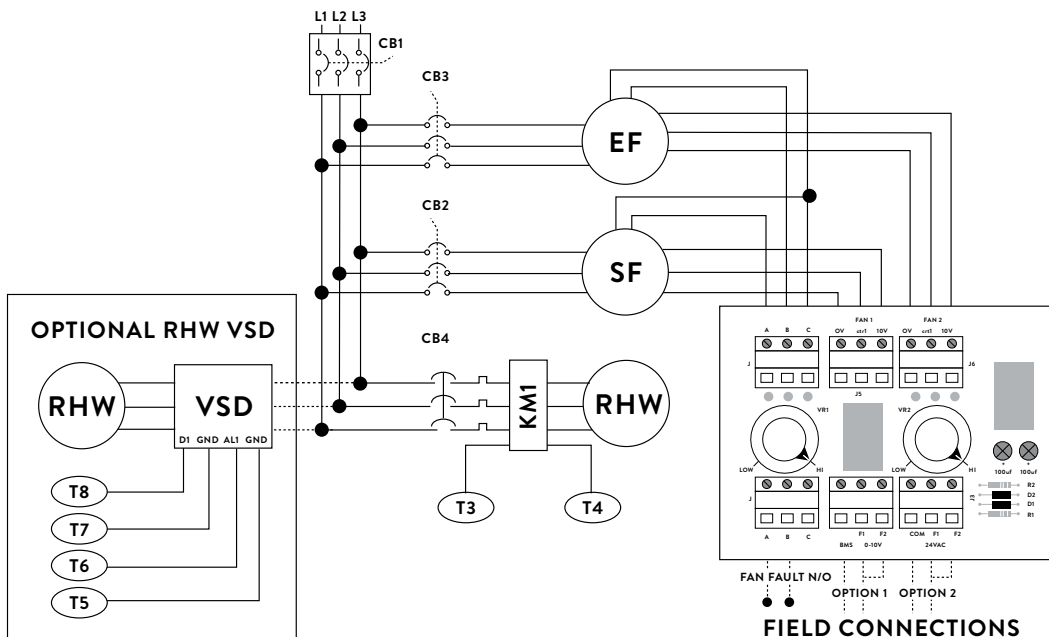


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	63.7	63 Hz	66
125 Hz	63.5	125 Hz	65.1
250 Hz	71.9	250 Hz	74.2
500 Hz	71.8	500 Hz	74.5
1K Hz	66.4	1K Hz	76.3
2K Hz	67.3	2K Hz	73
4K Hz	64.7	4K Hz	69.2
8K Hz	60.5	8K Hz	64.3
LwA	74.1	LwA	79.9

*Sound Power Levels @ 500 Pa Total Static Pressure and 900 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

Armcor Air Solutions

109-111 Northcorp Blvd, Broadmeadows 3047

P 1800 244 556 E sales@armcor.com.au

www.armcor.com.au

