

# 100% Outside Air Packaged Air Conditioning



## OAP Outside Air Package Units

### OAP5400-78P3 Technical Data

#### Technical Specifications

##### Nominal Airflow

Fresh Air (l/sec)	5400
Supply Air (l/sec)	5400
Condenser Air (l/sec)	7000

##### Supply Fan

Fan Type	EC Plug
Motor Power (Watts)	4450
External Static (Pa)	250
Fan Diameter	450
Number of Fans	2

##### Condenser Fan

Fan Type	EC Plug
Motor Power (Watts)	3700
Fan Diameter	630
Number of Fans	2

##### Electrical

\*Cable to be sized to Maximum FLA

Supply Fan (A)	13.6 - 13.6 - 13.6
Condenser Fan (A)	11.2 - 11.2 - 11.2
Compressor (A)	46.0 - 46.0 - 46.0
Nominal Run Current (A)	70.8 - 70.8 - 70.8
Maximum Full Load (A)	78.0 - 78.0 - 78.0
Volt/Phase	415V/3ph

##### Controls

0-10V DC (Fan Control)	Included
24V AC Control Relay	Included
Fan Fault Signal	Included
Fan Run Status	Available
Switchboard	Yes
Circuit Breakers	Yes

##### Cabinet Construction

Casing	50mm Insulated Panel
Finish	Surf Mist Colourbond
Insulation Value	R2.0
Side Access Panels	Included

##### Coil Selection

Evaporator Coil FL x FH (mm)	2000 x 1219.2
Face Velocity (m/sec)	2.21
Condenser Coil FL x FH (mm)	(2X) 750 x 1625.6
Face Velocity (m/sec)	2.46
Anti-Corrosion Coil Coating	Included
Drain Tray	Stainless Steel

##### Refrigeration

Cooling Capacity (kW)	76.2
Inverter Compressor	Standard (x2)
Expansion Device	Electronic Valve
Head Pressure Control	Included

##### Design Conditions

Based on Melbourne

Ambient (DB/WB) Summer	34.6/20.6
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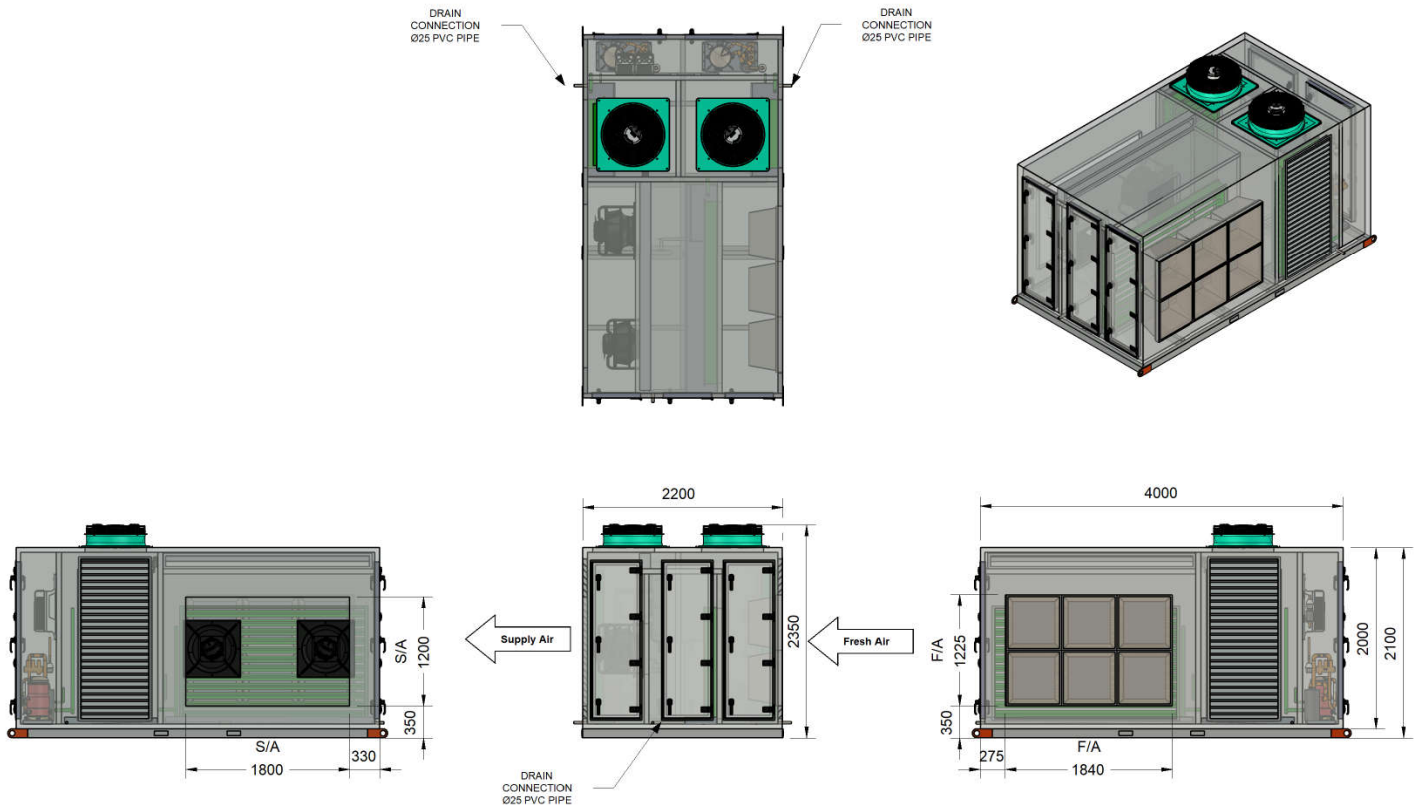
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## Technical Drawings – OAP5400-78P3



Dimension	
Height (mm)	2100
Width (mm)	4000
Length (mm)	2200
Weight (Kg)	2500

Duct Sizes	
Fresh Air (mm)	1840 x 1225
Supply Air (mm)	1800 x 1200

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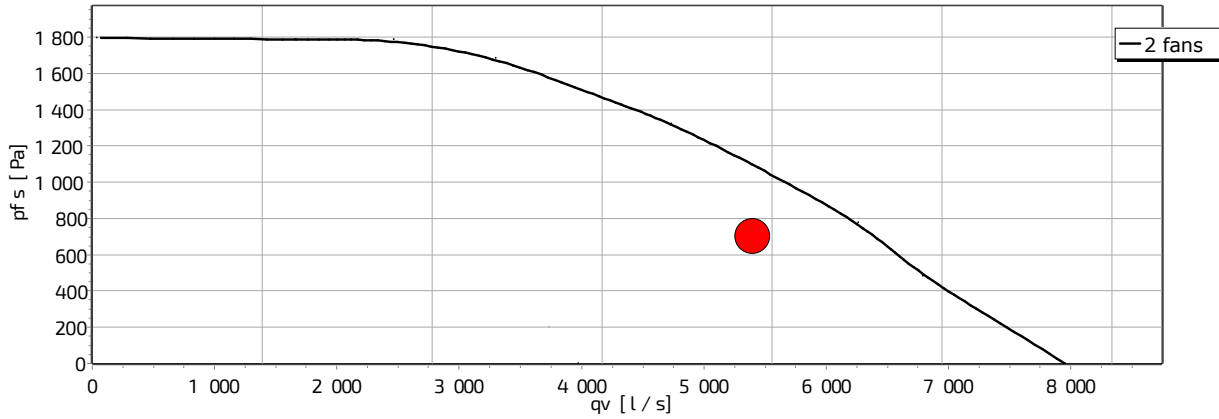
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## Supply Fan Performance Data

\*Duty point - 5400 L/s at 700 Pa Total Static Pressure (400Pa External Static Pressure)



## Sound Power Levels

\*Sound power levels at 700 Pa Total Static Pressure and 5400 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	
63 Hz	46.3	63 Hz	49.8
125 Hz	63.8	125 Hz	64.7
250 Hz	73.9	250 Hz	73.5
500 Hz	77.0	500 Hz	80.0
1K Hz	76.2	1K Hz	84.6
2K Hz	78.0	2K Hz	86.2
4K Hz	79.1	4K Hz	82.2
8K Hz	80.2	8K Hz	80.6
LwA	85.7	LwA	90.4

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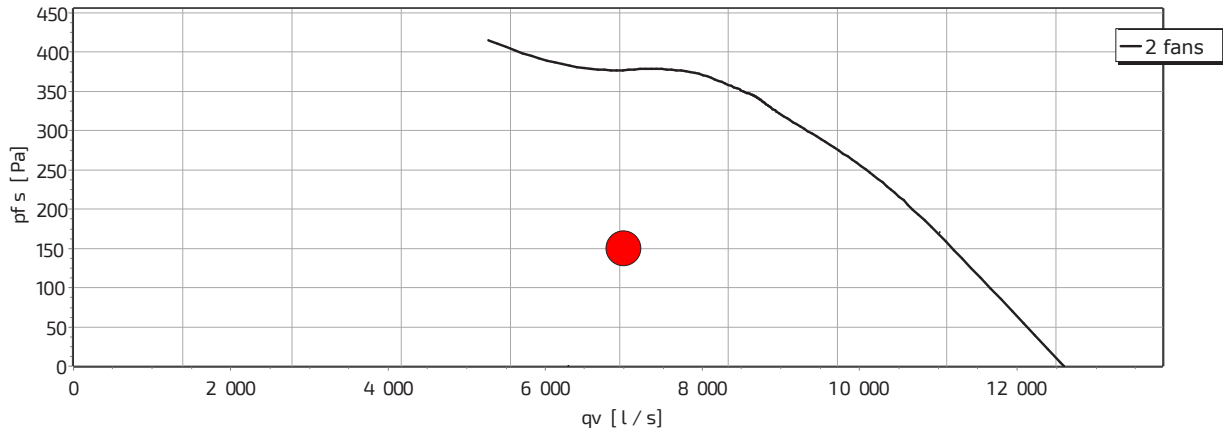
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## Condenser Fan Performance Data

\*Duty point - 7000 L/s at 150 Pa Total Static Pressure



## Sound Power Levels

\*Sound power levels at 7000 L/s Total Air Volume and 150 pa Total Static Pressure

Inlet Rating dB		Outlet Rating dB	
63 Hz	46.3	63 Hz	49.6
125 Hz	60.7	125 Hz	62.5
250 Hz	64.3	250 Hz	64.8
500 Hz	69.4	500 Hz	69.6
1K Hz	70.2	1K Hz	70.9
2K Hz	68.4	2K Hz	68.1
4K Hz	64.2	4K Hz	63.1
8K Hz	56.4	8K Hz	54.5
LwA	75.2	LwA	75.4



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