

100% Outside Air Packaged Air Conditioning



OAP Outside Air Package Units

OAP900-13P3 Technical Data

Technical Specifications

Nominal Airflow

Fresh Air (l/sec)	900
Supply Air (l/sec)	900
Condenser Air (l/sec)	1400

Supply Fan

Fan Type	EC Plug
Motor Power (Watts)	1900
External Static (Pa)	250
Fan Diameter	355
Number of Fans	1

Condenser Fan

Fan Type	EC Plug
Motor Power (Watts)	3700
Fan Diameter	630
Number of Fans	1

Electrical

*Cable to be sized to Maximum FLA

Supply Fan (A)	3.0 - 3.0 - 3.0
Condenser Fan (A)	1.6 - 1.6 - 1.6
Compressor (A)	8.4 - 8.4 - 8.4
Nominal Run Current (A)	13.0 - 13.0 - 13.0
Maximum Full Load (A)	14.3 - 14.3 - 14.3
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)	400 x 1016
Face Velocity (m/sec)	2.21
Condenser Coil FL x FH (mm)	500 x 1016
Face Velocity (m/sec)	2.85
Anti-Corrosion Coil Coating	Included
Drain Tray	Stainless Steel

Refrigeration

Cooling Capacity (kW)	12.7
Inverter Compressor	Standard (x1)
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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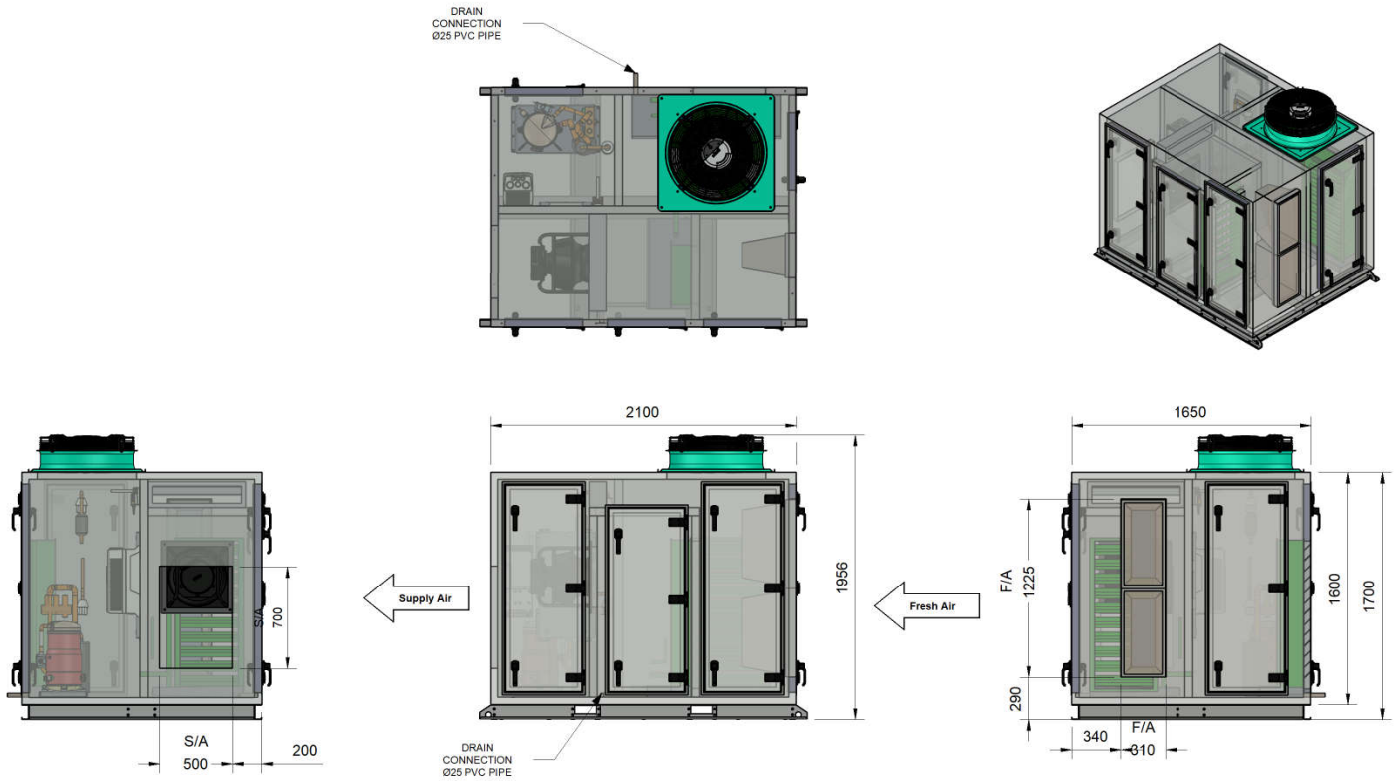
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Technical Drawings – OAP900-13P3



Dimension	
Height (mm)	1700
Width (mm)	1650
Length (mm)	2100
Weight (Kg)	970

Duct Sizes	
Fresh Air (mm)	310 x 1225
Supply Air (mm)	500 x 700

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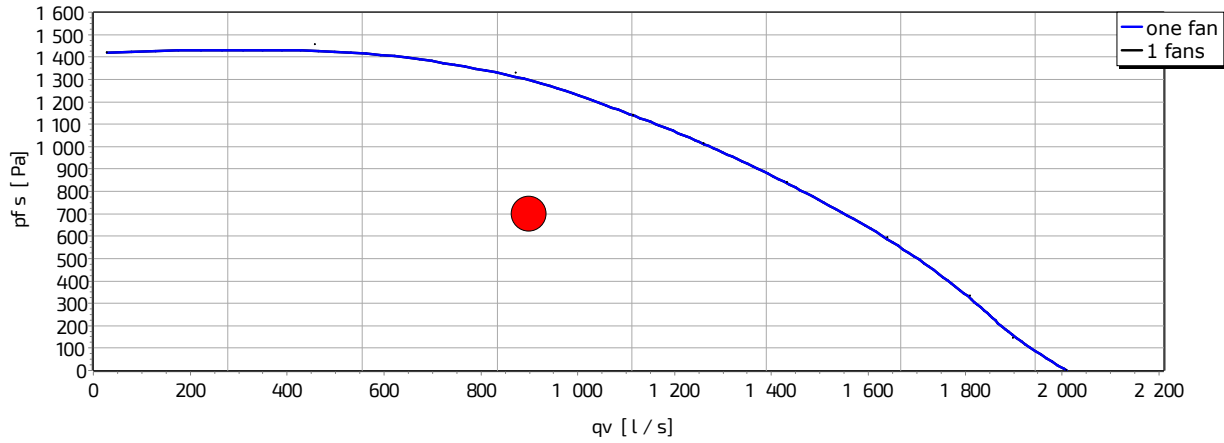
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Supply Fan Performance Data

*Duty point - 900 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 900 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	
63 Hz	39.5	63 Hz	41.5
125 Hz	56.9	125 Hz	56.6
250 Hz	65.0	250 Hz	64.7
500 Hz	68.8	500 Hz	71.9
1K Hz	68.8	1K Hz	76.6
2K Hz	70.5	2K Hz	75.5
4K Hz	68.6	4K Hz	74.1
8K Hz	60.9	8K Hz	65.7
LwA	75.9	LwA	81.1

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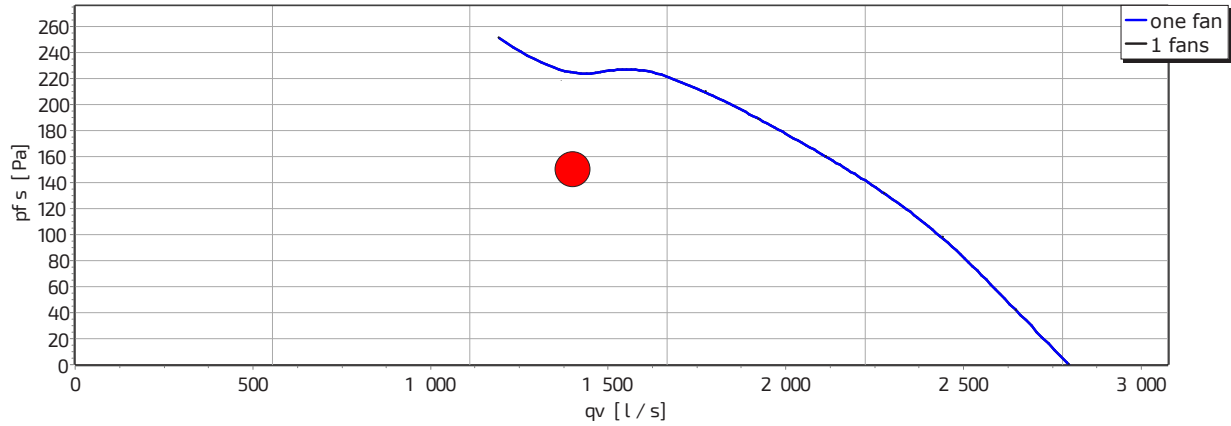
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Condenser Fan Performance Data

*Duty point - 1400 L/s at 150 Pa Total Static Pressure



Sound Power Levels

*Sound power levels at 1400 L/s Total Air Volume and 150 pa Total Static Pressure

Inlet Rating dB		Outlet Rating dB	
63 Hz	54.6	63 Hz	53.8
125 Hz	60.0	125 Hz	60.2
250 Hz	61.9	250 Hz	59.8
500 Hz	67.0	500 Hz	67.1
1K Hz	71.8	1K Hz	74.6
2K Hz	69.7	2K Hz	72.6
4K Hz	65.7	4K Hz	67.5
8K Hz	55.7	8K Hz	57.0
LwA	75.6	LwA	77.8



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