ERV-PAC Packaged Airconditioning

XEP Packaged Airconditioning Unit

XEP2000P3 Technical Data

Technical Specifications

Nominal Airflow	
Supply Air (l/sec)	1800 - 2000
Return Air (l/sec)	1800 - 2000
Fresh Air (l/sec)	1800 - 2000
Condensor Air (l/sec)	1680
Exhaust Air (l/sec)	3680

Fan Type	EC Plug Fan
Motor Power (Watts)	4450
External Static (Pa)	250
Fan Diameter	450
Number of Fans	1

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

Electrical	*Cable sized to maximum FLA. Data presented for airflow at 2000 L/s	
Compressor Type	**Fixed Speed**	**Inverter**
Supply Fan Run Current (A)	3.5 - 3.5 - 3.5	3.5 - 3.5 - 3.5
Exhaust Fan Run Current (A)	6.8 – 6.8 – 6.8	6.8 – 6.8 – 6.8
Compressor Run Current (A)	27.8 - 27.8 - 27.8	18.6 - 18.6 - 18.6
Total Run Current (A)	38.1 - 38.1 - 38.1	28.9 - 28.9 - 28.9
Maximum Full Load (A)	67.4 - 67.4 - 67.4	56.6 - 56.6 - 56.6
Power Supply (V/Ph/Hz)	415/3/50	415/3/50

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

	*Rated at standard conditions of 35.5° db/24.0° wb
Enthalpy Media	Standard
Sensible Media	Available
Corrosion Resistant Media	Available
Face Velocity (m/sec)	1.3
Pressure Drop (Pa)	102.0
Kw Recovered (Cooling)*	30.2
Kw Recovered (Heating)*	34.8

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

Ambient (DB/WB) Summer	35°C/24°C
Return Air (DB/WB) Summer	24°C/17°C
Ambient Winter	7°C
Return Air Winter	21°C

Indoor Coil FL x FH (mm)	1830 x 635
Face Velocity (m/sec)	1.7
Outdoor Coil FL x FH (mm)	1830 x 865
Face Velocity (m/sec)	2.3
Anti-Corrosion Coil Coating	Included
Drain Tray	Stainless Steel

*At standard design temperatures	
Heating Capacity (kW)*	46
Cooling Capacity (kW)*	46
Fixed Speed Compressor	Standard - x2 - R407C
Inverter Compressor	Available - x1 - R410A
Expansion Device	TX Biflow Valves
Head Pressure Control	Included

Options	
Economy Cycle	Available (XEP2000P3-E)
Return Air Bypass Damper	Available

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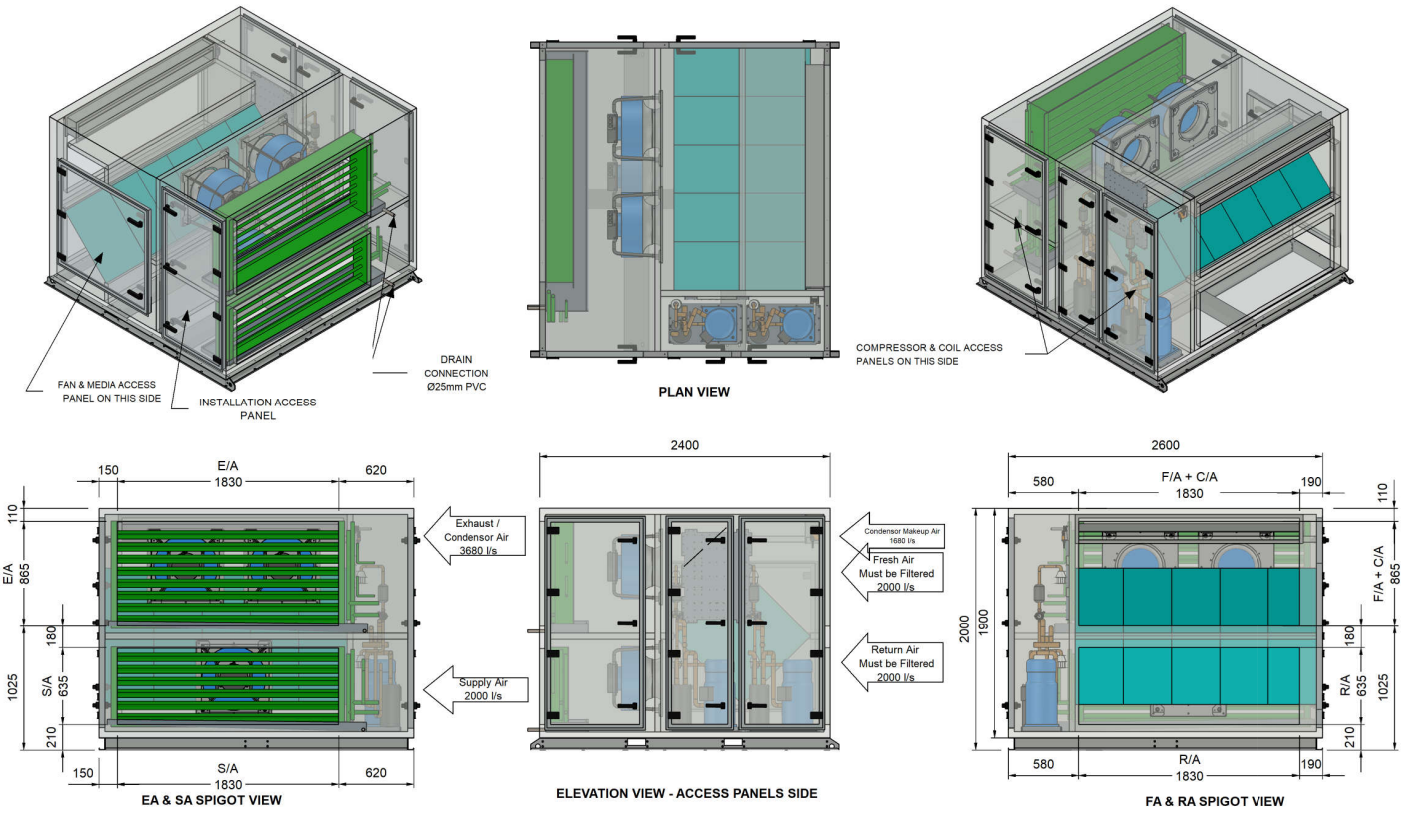
Technical Drawings – XEP2000P3



Height (mm)	2000
Width (mm)	2600
Length (mm)	2400
Weight (kg)	1220
Access Clearance (mm)	1200 (Fan & Media Access)
Access Clearance (mm)	1200 (Electrical Controls)

Supply Air (mm)	1830 x 635
Return Air (mm)	1830 x 635
Fresh Air/Condensor Air Inlet	1830 x 865
Exhaust/Condensor Air	1830 x 865
Recommended min F/A Filter Size	1830 x 610

Compressor Performance Data

Return Air Temperatures	Outdoor Coil Entering Air Temperature (E.A.T) °C db											
24°C/17°C db/wb	23		27		31		35		39		43	
	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.
	49.7	34.3	48.8	34.3	47.8	34.0	46.0	33.0	42.8	31.4	39.6	24.1

Return Air Temperatures	Outdoor Coil Entering Air Temperature (E.A.T) °C db					
22°C	-1	1	3	5	7	9
	35.4	37.7	40.0	43.2	46.0	47.8

For winter operation the air on to the DX coil must be a minimum of 15°C. If this cannot be achieved, we recommend using a EDH or hot water coil to maintain the correct temperature onto the DX coil.

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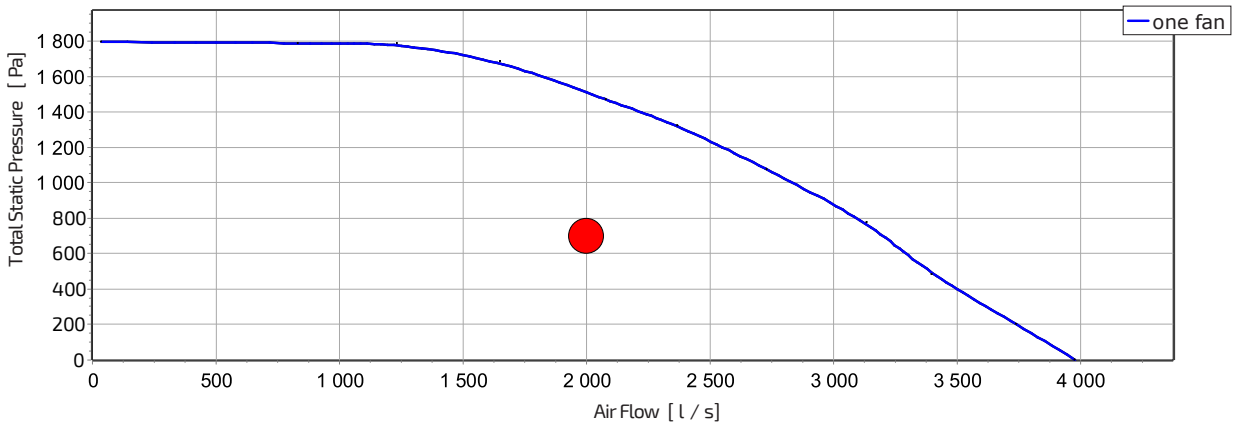
Fan Performance Data

*Duty point - 2000 L/s at 700 Pa Total Static Pressure (250Pa External Static Pressure)

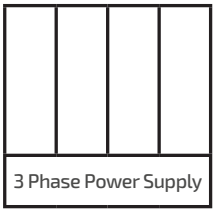


Sound Power Levels

*Sound power levels at 700 Pa Total Static Pressure and 2000 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	
63 Hz	47.2	63 Hz	48.8
125 Hz	60.8	125 Hz	62.1
250 Hz	67.6	250 Hz	67.9
500 Hz	69.9	500 Hz	74.7
1 K Hz	71.4	1K Hz	79.2
2K Hz	72.1	2K Hz	79.7
4K Hz	74.0	4K Hz	77.4
8K Hz	65.3	8K Hz	70.2
LwA	78.8	LwA	84.5

Wiring Diagram



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Date: 03/08/2023 | Document: XEP2000P3_techspec | Version4