ERV-PAC Packaged Airconditioning

XEP Packaged Airconditioning Unit

XEP1500P3 Technical Data

Technical Specifications

Nominal Airflow	
Supply Air (l/sec)	1300 - 1500
Return Air (l/sec)	1300 - 1500
Fresh Air (l/sec)	1300 - 1500
Condensor Air (l/sec)	1060
Exhaust Air (l/sec)	2560

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

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

Electrical	*Cable sized to maximum FLA. Data presented for airflow at 1500 L/s	
Compressor Type	Fixed Speed	Inverter
Supply Fan Run Current (A)	2.8 - 2.8 - 2.8	2.8 - 2.8 - 2.8
Exhaust Fan Run Current (A)	5.2 – 5.2 – 5.2	5.2 – 5.2 – 5.2
Compressor Run Current (A)	18.8 - 18.8 - 18.8	15.4 - 15.4 - 15.4
Total Run Current (A)	26.8 - 26.8 - 26.8	23.4 - 23.4 - 23.4
Maximum Full Load (A)	42.6 - 42.6 - 42.6	40.7 - 40.7 - 40.7
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

Heat Exchanger	*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)	1.6
Pressure Drop (Pa)	128.0
Kw Recovered (Cooling)*	22.7
Kw Recovered (Heating)*	26.3

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

Design Temperatures	
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

Coil Selection	
Indoor Coil FL x FH (mm)	1220 x 635
Face Velocity (m/sec)	1.9
Outdoor Coil FL x FH (mm)	1220 x 865
Face Velocity (m/sec)	2.4
Anti-Corrosion Coil Coating	Included
Drain Tray	Stainless Steel

Refrigeration	*At standard design temperatures
Heating Capacity (kW)*	32
Cooling Capacity (kW)*	32
Fixed Speed Compressor	Standard - x1 - R407C
Inverter Compressor	Available - x1 - R410A
Expansion Device	TX Biflow Valves
Head Pressure Control	Included

Options	
Economy Cycle	Available (XEP1500P3-E)
Return Air Bypass Damper	Available

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Technical Drawings – XEP1500P3

Dimension	
Height (mm)	2000
Width (mm)	1800
Length (mm)	2400
Weight (kg)	910
Access Clearance (mm)	1200 (Fan & Media Access)
Access Clearance (mm)	1200 (Electrical Controls)

Duct Sizes	
Supply Air (mm)	1220 x 635
Return Air (mm)	1105 x 635
Fresh Air/Condensor Air Inlet	1105 x 865
Exhaust/Condensor Air	1220 x 865
Recommended min F/A Filter Size	1220 x 610

Compressor Performance Data

Compressor Capacity (KW) – Cooling

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.
	34.6	27.0	33.9	27.0	33.3	26.8	32.0	26.0	29.8	24.7	27.5	19.0

Compressor Capacity (KW) – Heating

Return Air Temperatures	Outdoor Coil Entering Air Temperature (E.A.T) °C db					
22°C	-1	1	3	5	7	9
	24.6	26.2	27.8	30.1	32.0	33.3

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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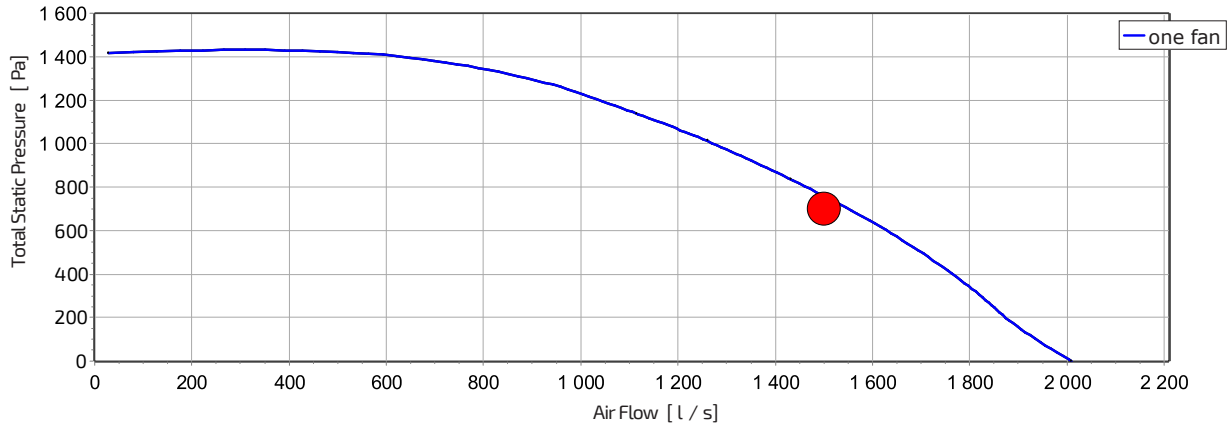
Fan Performance Data

*Duty point - 1500 L/s at 700 Pa Total Static Pressure (250Pa External Static Pressure)

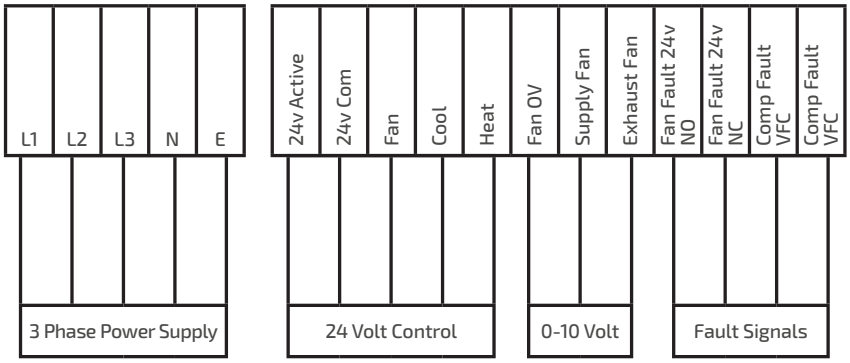


Sound Power Levels

*Sound power levels at 700 Pa Total Static Pressure and 1500 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	
63 Hz	34.8	63 Hz	38.1
125 Hz	50.8	125 Hz	53.2
250 Hz	67.3	250 Hz	68.9
500 Hz	71.7	500 Hz	73.7
1K Hz	71.5	1K Hz	79.5
2K Hz	75.1	2K Hz	80.7
4K Hz	77.2	4K Hz	81.8
8K Hz	73.4	8K Hz	76.8
LwA	81.5	LwA	86.4

Wiring Diagram



STANDARD INCLUSIONS

- Fan Speed Controller
  0-10v DC - BMS Connection, **OR**
  24v AC - Fan Speed Control via Pots
- Circuit Breakers
- Time Delay Relay
- Phase Fail Relay
- Reversing Valve
- High Pressure Cutout
- Low Pressure Cutour
- Compressor Overload

OPTIONS

- Compressor Sump Heater
- Current Sensing Relay

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