

# ERV-PAC Packaged Airconditioning



## XEP Packaged Airconditioning Unit

### XEP1700P3 Technical Data

#### Technical Specifications

##### Nominal Airflow

Supply Air (l/sec)	1600 - 1700
Return Air (l/sec)	1600 - 1700
Fresh Air (l/sec)	1600 - 1700
Condensor Air (l/sec)	1260
Exhaust Air (l/sec)	2960

##### Supply Fan

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

\*Max FLA to be used to size supply cables and relevant safety devices

Compressor Type	Fixed Speed	Inverter
Total Run Current (A)	27.9 - 27.9 - 27.9	26.9 - 26.9 - 26.9
Maximum Full Load (A)	46.0 - 46.0 - 46.0	53.0 - 53.0 - 53.0
Power Supply (V/Ph/Hz)	415/3/50	415/3/50

##### Controls

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

##### Heat Exchanger

\*Rated at standard conditions of 35.5° db/24.0° wb

	Enthalpy	Sensible
Corrosion Resistant Media	Not Available	Available
Face Velocity (m/sec)	2	1.8
Pressure Drop (Pa)	211	70.5
Kw Recovered (Cooling)*	28	14.41
Kw Recovered (Heating)*	33.4	17.3

##### 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)	2.2
Outdoor Coil FL x FH (mm)	1220 x 865
Face Velocity (m/sec)	2.8
Anti-Corrosion Coil Coating	Included
Drain Tray	Stainless Steel

##### Refrigeration

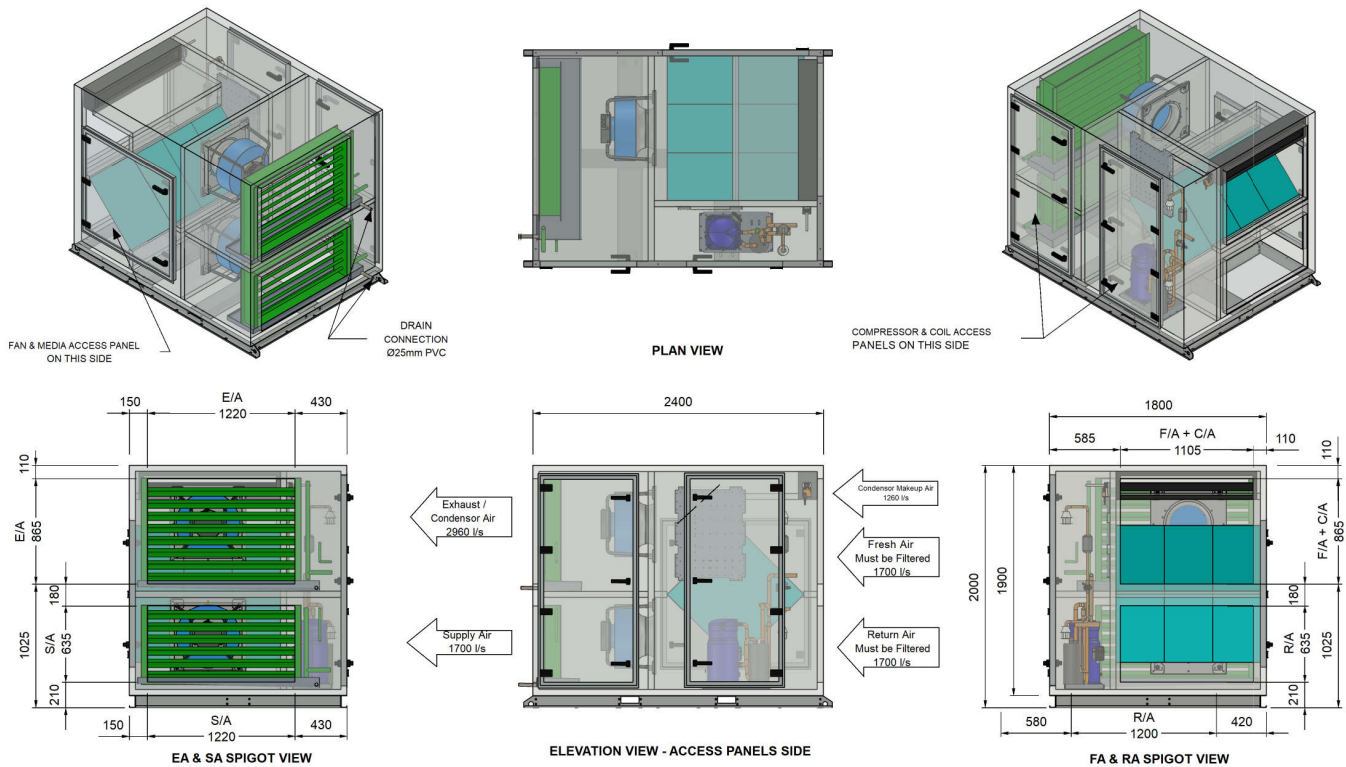
\*At standard design temperatures

Heating Capacity (kW)*	37
Cooling Capacity (kW)*	37
Fixed Speed Compressor	Standard - x1 - R407C
Inverter Compressor	Available - x1 - R410A
Expansion Device	TX Biflow Valves
Head Pressure Control	Included

##### Options

Economy Cycle	Available (XEP1700P3-E)
Return Air Bypass Damper	Available

### Technical Drawings – XEP1700P3



Dimension	
Height (mm)	2000
Width (mm)	1800
Length (mm)	2400
Weight (kg)	1060
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											
	23		27		31		35		39		43	
24°C/17°C db/wb	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.
	40.0	31.9	39.2	31.9	38.5	31.6	37.0	30.7	34.4	29.2	31.8	22.4

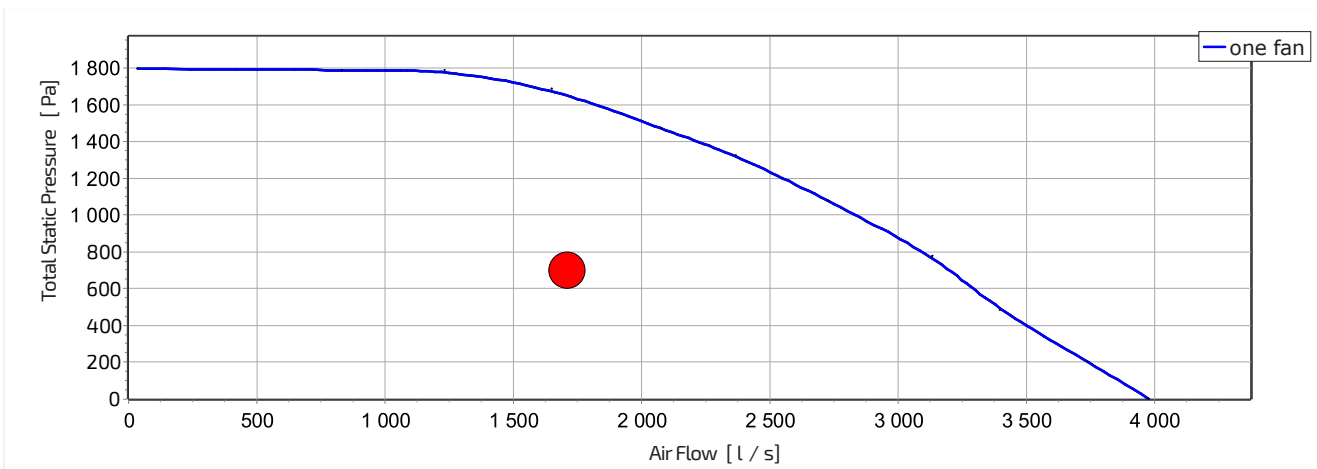
#### Compressor Capacity (KW) – Heating

Return Air Temperatures	Outdoor Coil Entering Air Temperature (E.A.T) °C db					
	-1	1	3	5	7	9
22°C	28.5	30.3	32.2	34.8	37.0	38.5

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.

### Fan Performance Data

\*Duty point - 1700 L/s at 700 Pa Total Static Pressure (250Pa External Static Pressure)

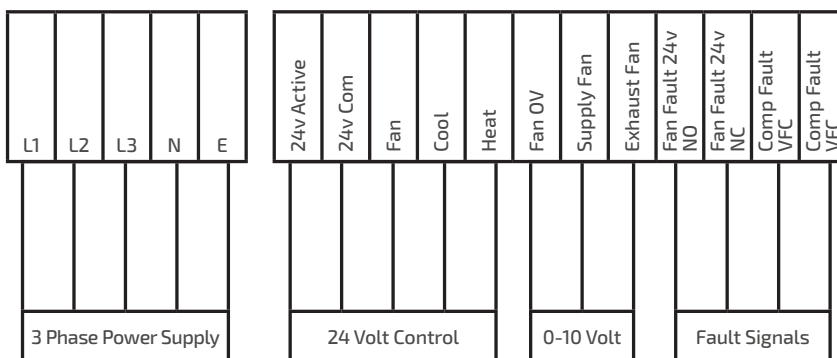


### Sound Power Levels

\*Sound power levels at 700 Pa Total Static Pressure and 1700 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	
63 Hz	48.2	63 Hz	49.5
125 Hz	59.2	125 Hz	59.9
250 Hz	65.6	250 Hz	66.0
500 Hz	68.4	500 Hz	73.8
1K Hz	70.3	1K Hz	77.9
2K Hz	70.1	2K Hz	77.3
4K Hz	70.8	4K Hz	75.1
8K Hz	60.6	8K Hz	66.2
LwA	76.6	LwA	82.6

### 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 Cutout
- Compressor Overload

#### OPTIONS

- Compressor Sump Heater
- Current Sensing Relay

