

# ERV-PAC Packaged Airconditioning



## XEP Packaged Airconditioning Unit

### XEP4000P3 Technical Data

#### Technical Specifications

##### Nominal Airflow

|                       |             |
|-----------------------|-------------|
| Supply Air (l/sec)    | 3600 - 4000 |
| Return Air (l/sec)    | 3600 - 4000 |
| Fresh Air (l/sec)     | 3600 - 4000 |
| Condensor Air (l/sec) | 2400        |
| Exhaust Air (l/sec)   | 6400        |

##### Supply Fan

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

##### Exhaust Fan

|                      |             |
|----------------------|-------------|
| Fan Type             | EC Plug Fan |
| Motor Power (Watts)  | 4450        |
| External Static (Pa) | 250         |
| Fan Diameter         | 450         |
| Number of Fans       | 3           |

##### Electrical

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

##### Compressor Type

##### Fixed Speed

##### Inverter

|                        |                    |                       |
|------------------------|--------------------|-----------------------|
| Total Run Current (A)  | 56.1 - 56.1 - 56.1 | 58.1 - 58.1 - 58.1    |
| Maximum Full Load (A)  | 98.8 - 98.8 - 98.8 | 113.0 - 113.0 - 113.0 |
| 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

##### Sensible

|                           |               |           |
|---------------------------|---------------|-----------|
| Corrosion Resistant Media | Not Available | Available |
| Face Velocity (m/sec)     | 1.75          | 1.6       |
| Pressure Drop (Pa)        | 183.3         | 58        |
| Kw Recovered (Cooling)*   | 67            | 34        |
| Kw Recovered (Heating)*   | 80.2          | 41.3      |

##### 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)    | 3050 x 635      |
| Face Velocity (m/sec)       | 2.1             |
| Outdoor Coil FL x FH (mm)   | 3050 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)* | 80.0                   |
| Cooling Capacity (kW)* | 80.0                   |
| Fixed Speed Compressor | Standard - x2 - R407C  |
| Inverter Compressor    | Available - x2 - R410A |
| Expansion Device       | TX Biflow Valves       |
| Head Pressure Control  | Included               |

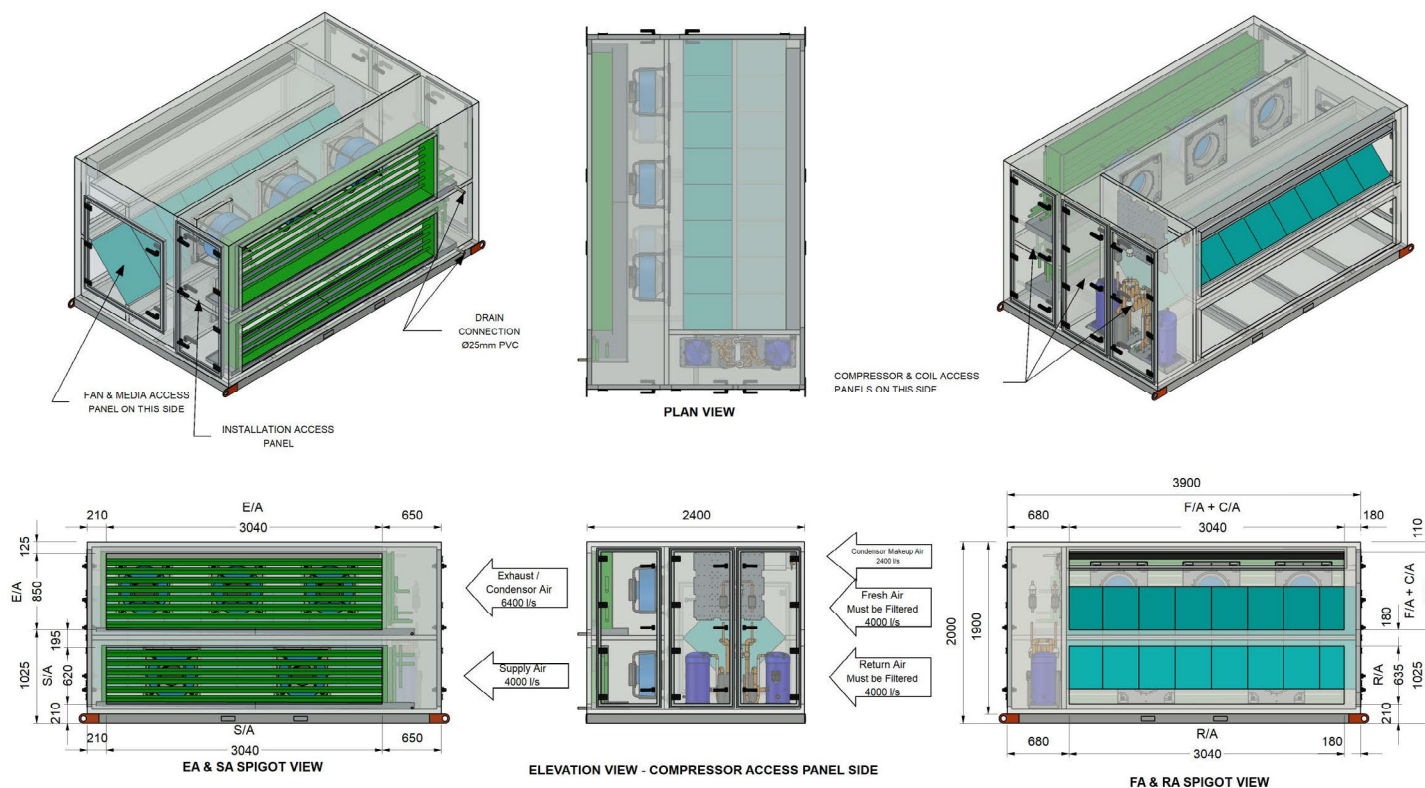
##### Options

|                          |                         |
|--------------------------|-------------------------|
| Economy Cycle            | Available (XEP4000P3-E) |
| Return Air Bypass Damper | Available               |

# ERV-PAC Packaged Airconditioning

## XEP Packaged Airconditioning Unit – XEP4000P3 Technical Data

### Technical Drawings - XEP4000P3



#### Dimension

|                       |                            |
|-----------------------|----------------------------|
| Height (mm)           | 2000                       |
| Width (mm)            | 3900                       |
| Length (mm)           | 2400                       |
| Weight (kg)           | 1745                       |
| Access Clearance (mm) | 1200 (Fan & Media Access)  |
| Access Clearance (mm) | 1200 (Electrical Controls) |

#### Duct Sizes

|                                 |            |
|---------------------------------|------------|
| Supply Air (mm)                 | 3040 x 635 |
| Return Air (mm)                 | 3040 x 635 |
| Fresh Air/Condensor Air Inlet   | 3040 x 865 |
| Exhaust/Condensor Air           | 3040 x 860 |
| Recommended min F/A Filter Size | 3050 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. |
|                 | 86.4  | 67.6  | 84.8  | 67.6  | 83.2  | 67.0  | 80.0  | 65.0  | 74.4  | 61.8  | 68.8  | 47.5  |

#### 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    |
|------|------|------|------|------|------|------|
|      | 61.6 | 65.6 | 69.6 | 75.2 | 80.0 | 83.2 |

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.

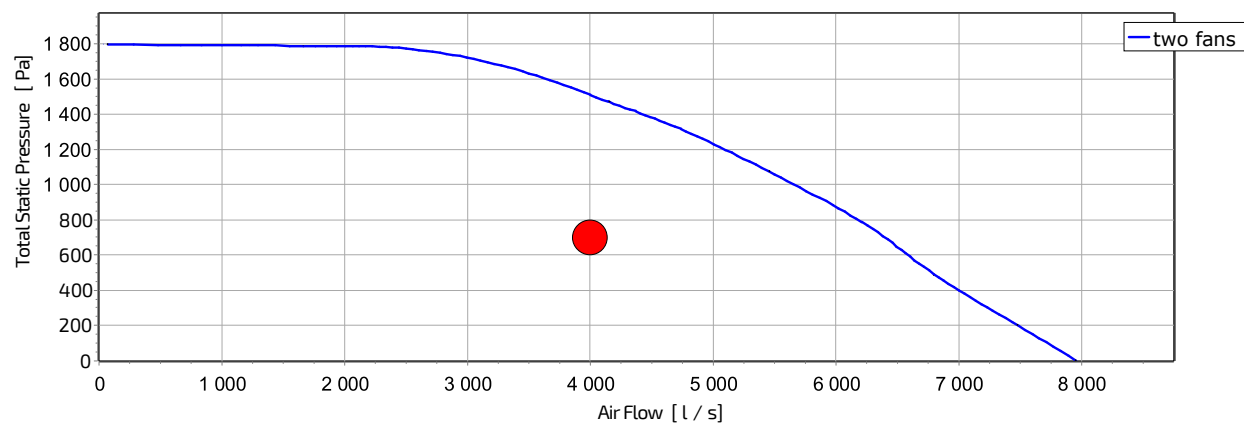
# ERV-PAC Packaged Airconditioning

## XEP Packaged Airconditioning Unit – XEP4000P3 Technical Data



Fan Performance Data

\*Duty point - 4000 L/s at 700 Pa Total Static Pressure (250Pa External Static Pressure)

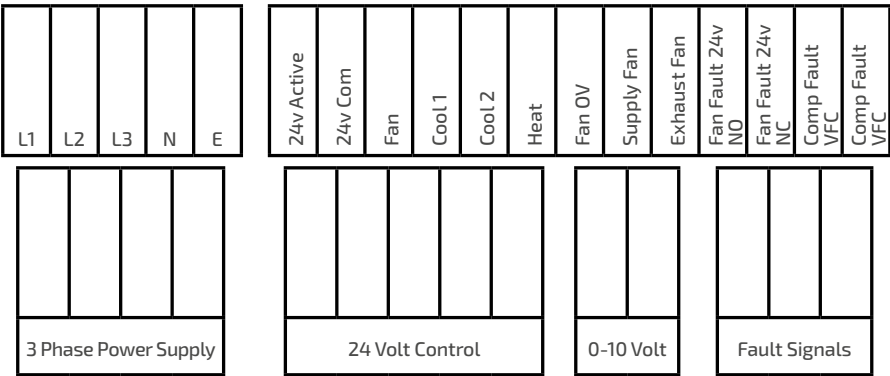


Sound Power Levels

\*Sound power levels at 700 Pa Total Static Pressure and 4000 L/s Total Air Volume

| Inlet Rating dB |      | Outlet Rating dB |      |
|-----------------|------|------------------|------|
| 63 Hz           | 50.2 | 63 Hz            | 51.8 |
| 125 Hz          | 63.8 | 125 Hz           | 65.1 |
| 250 Hz          | 70.6 | 250 Hz           | 70.9 |
| 500 Hz          | 72.9 | 500 Hz           | 77.7 |
| 1 K Hz          | 74.4 | 1K Hz            | 82.2 |
| 2K Hz           | 75.1 | 2K Hz            | 82.7 |
| 4K Hz           | 77.0 | 4K Hz            | 80.4 |
| 8K Hz           | 68.3 | 8K Hz            | 73.2 |
| LwA             | 81.8 | LwA              | 87.5 |

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 Relayw
  - Reversing Valve
  - High Pressure Cutout
  - Low Pressure Cutout
  - Compressor Overload
- OPTIONS
- Compressor Sump Heater
  - Current Sensing Relay



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