

# ERV-PAC Packaged Airconditioning

## XES Swim Pool Unit

### XES2000P3 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

### Supply Fan

Fan Type	EC Plug Fan
Motor Power (Watts)	2825
External Static (Pa)	250
Fan Diameter	450
Number of Fans	1

### Exhaust Fan

Fan Type	EC Plug Fan
Motor Power (Watts)	2825
External Static (Pa)	250
Fan Diameter	450
Number of Fans	2

### Electrical

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

Compressor Type	Fixed Speed	Inverter
Total Run Current (A)	36.2 - 36.2 - 36.2	30.0 - 30.0 - 30.0
Maximum Full Load (A)	63.6 - 63.6 - 63.6	67.9 - 67.9 - 67.9
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

Sensible Poly Media	Standard
Face Velocity (m/sec)	1.3
Pressure Drop (Pa)	48
Kw Recovered (Heating)*	21

### Cabinet Construction

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

### Refrigeration

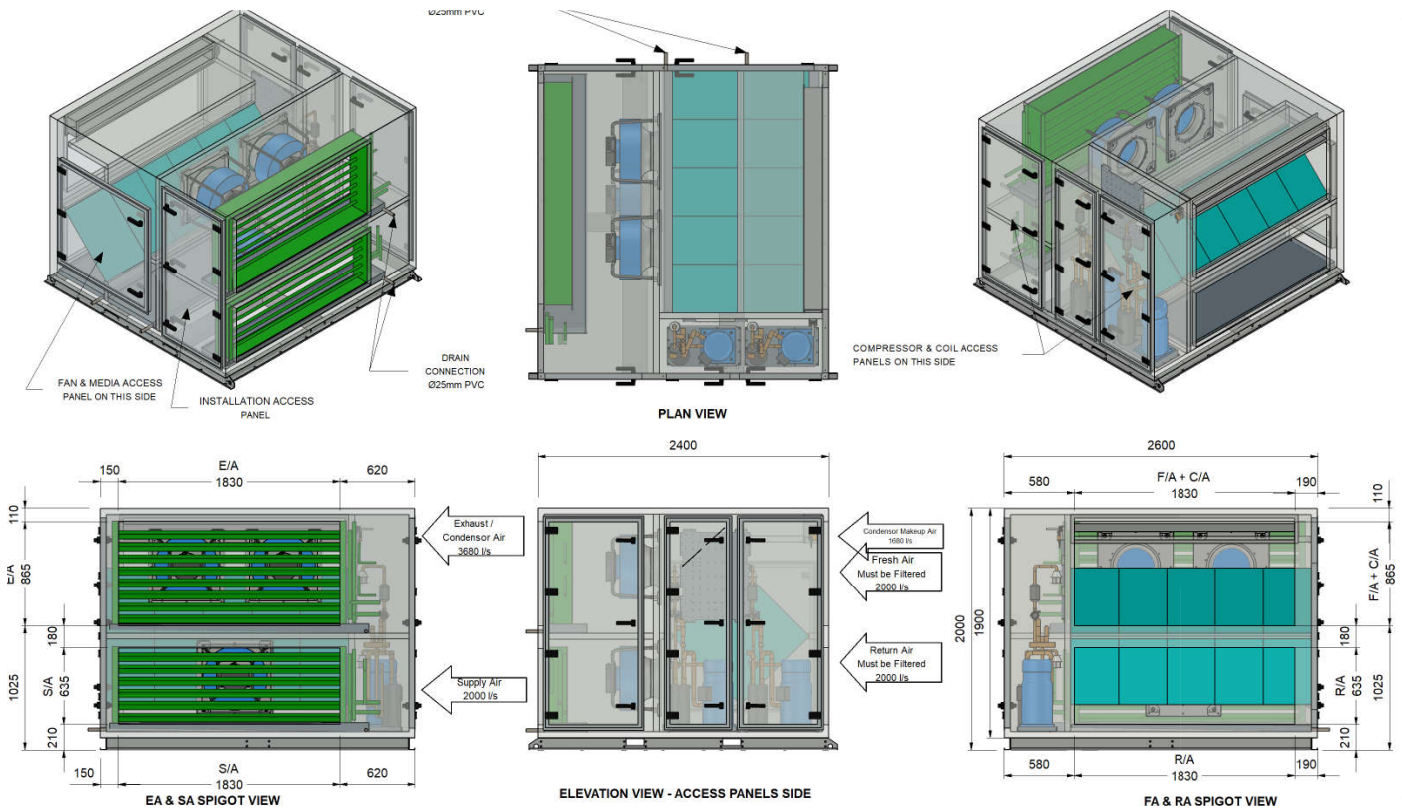
\*At standard design temperatures

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 (XES2000P3EC)
Return Air Bypass Damper	Available

### Technical Drawings – XES2000P3



Dimension	
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)

Duct Sizes	
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

#### Compressor Capacity (KW) – Cooling

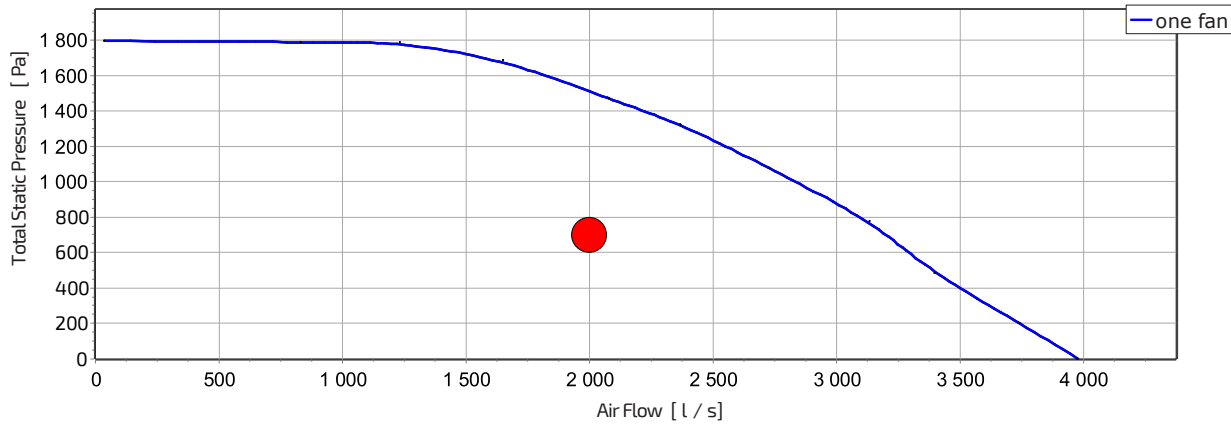
Return Air Temperatures	Outdoor Coil Entering Air Temperature (E.A.T) °C db											
	23		27		31		35		39		43	
24°C/17°C db/wb	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.	Total	Sens.
	49.7	34.3	48.8	34.3	47.8	34.0	46.0	33.0	42.8	31.4	39.6	24.1

#### 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	35.4	37.7	40.0	43.2	46.0	47.8

### Fan Performance Data

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

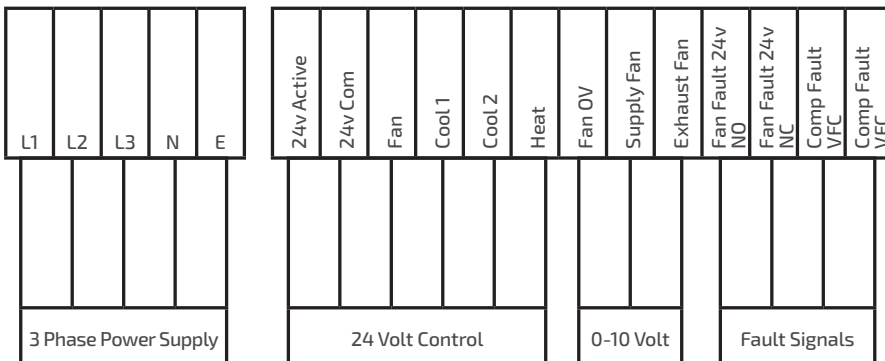


### Sound Power Levels

\*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



#### 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 Heat
- Current Sensing Relay
- 0-10v Digital Compressor

