

ERV-PAC Packaged Airconditioning



XES Swim Pool Unit

XES4000P3 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

Sensible Poly Media	Standard
Face Velocity (m/sec)	1.6
Pressure Drop (Pa)	58
Kw Recovered (Heating)*	41.3

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)	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

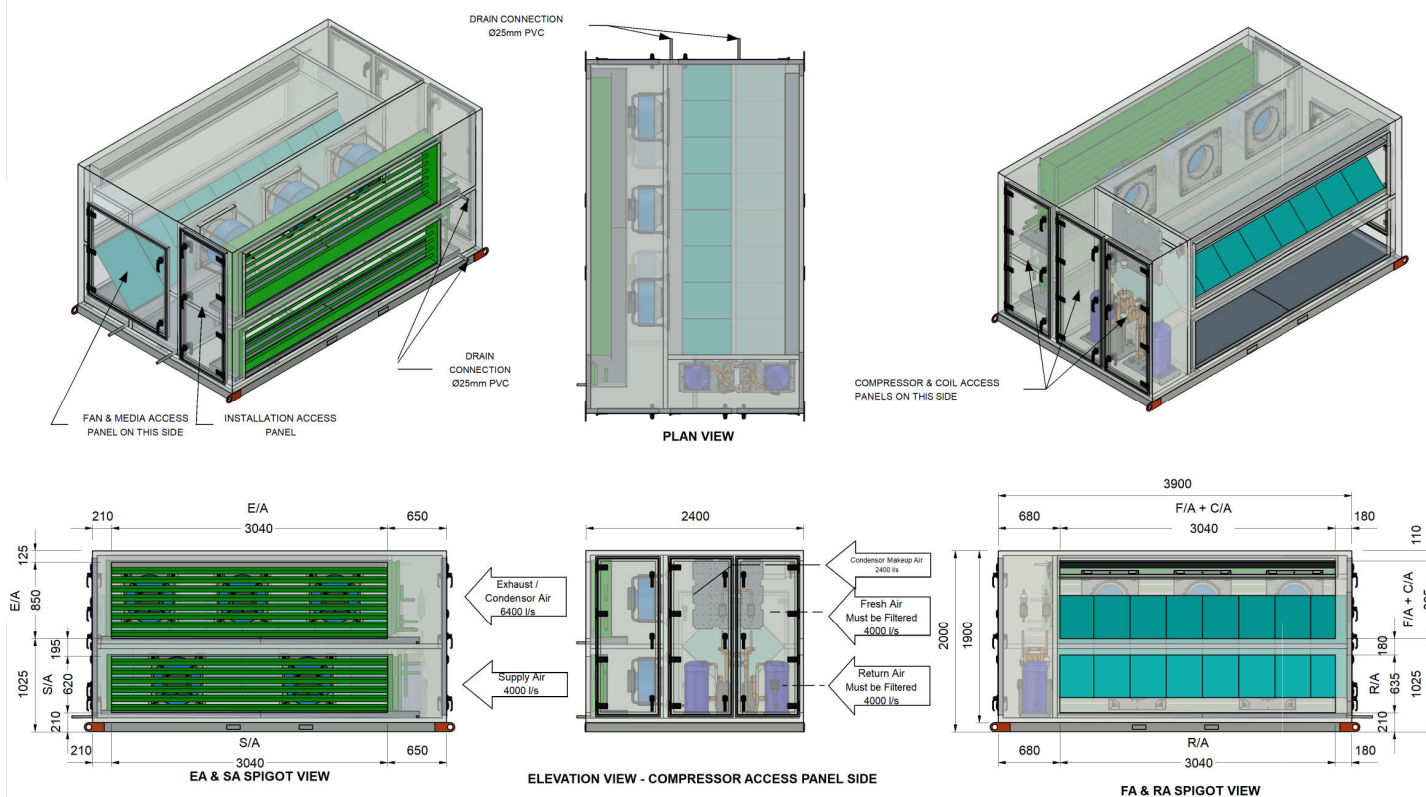
Options

Economy Cycle	Available (XES4000P3EC)
Return Air Bypass Damper	Available

ERV-PAC Packaged Airconditioning

XES Swim Pool Unit – XES4000P3 Technical Data

Technical Drawings - XES4000P3



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

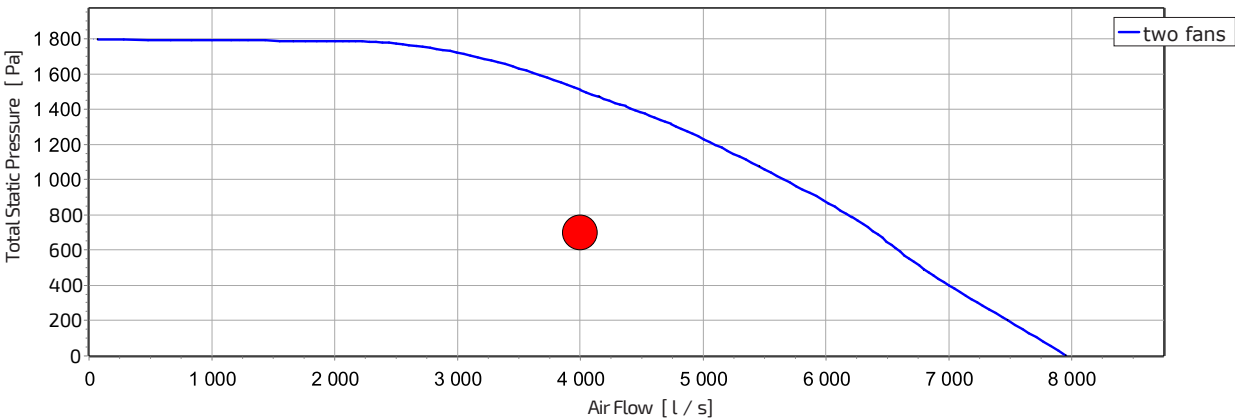
22°C	-1	1	3	5	7	9
	61.6	65.6	69.6	75.2	80.0	83.2

ERV-PAC Packaged Airconditioning
XES Swim Pool Unit – XES4000P3 Technical Data



Fan Performance Data

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

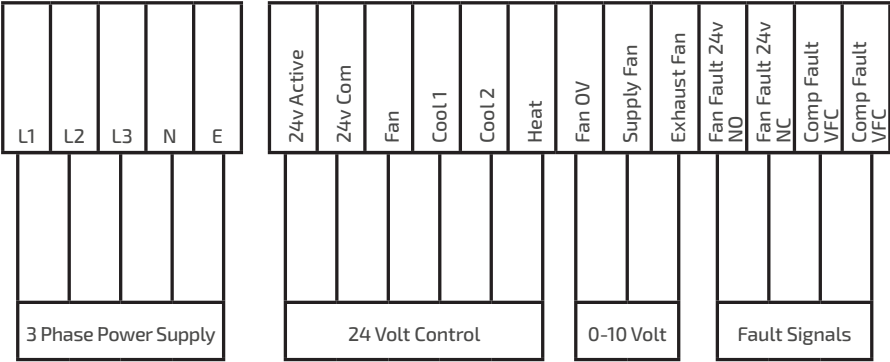


Sound Power Levels

*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 Relay

Reversing Valve

High Pressure Cutout

Low Pressure Cutout

Compressor Overload

OPTIONS

Compressor Sump Heat

Current Sensing Relay

0-10v Digital Compressor



A: 109-111 Northcorp Blvd, Broadmeadows VIC 3047
T: 03 8301 9200
E: sales@armcor.com.au
W: armcor.com.au

© 2025 Armcor Air Solutions reserves the right to alter products and specifications without notice and does not accept responsibility for possible errors and omissions in published documentation.
Date: 25/03/2025 | Document: XES4000P3_techspec | Version 5