ERV-PAC PACKAGED AIRCONDITIONING XEP PACKAGED AIRCONDITIONING UNIT W/ ECONOMY CYCLE **XEP500P3EC TECHNICAL DATA**



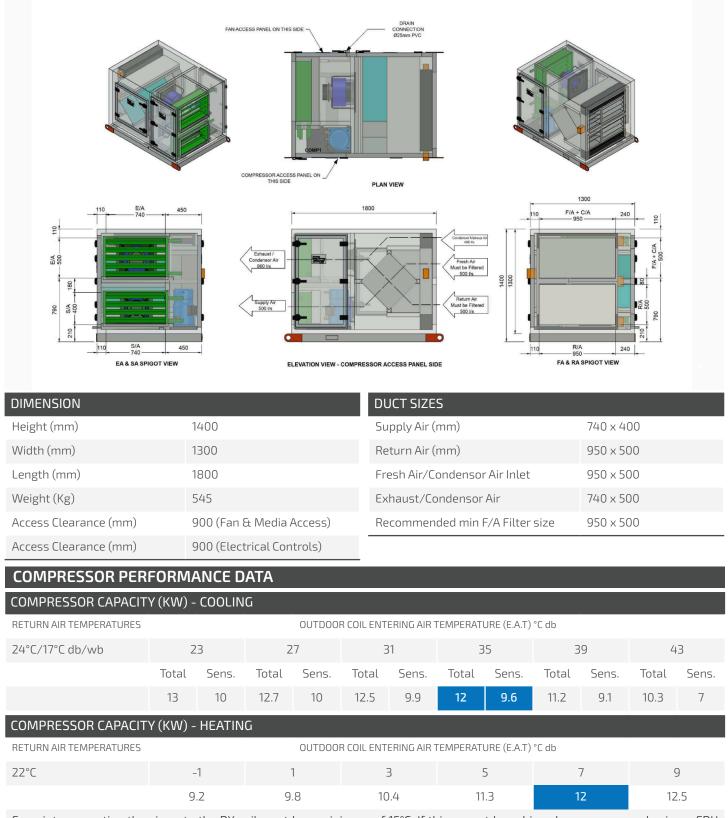
TECHNICAL SPECIFICATIONS NOMINAL AIRFLOW Supply Air (I/sec) 300 - 500 Return Air (I/sec) 300 - 500 Fresh Air (I/sec) 300 - 500 Condensor Air (I/sec) 460 960 Exhaust Air (I/sec) SUPPLY FAN EC Plug Fan Fan Type Motor Power (Watts) 750 External Static (Pa) 200 Fan Diameter 250 Number of Fans 1 **EXHAUST FAN** Fan Type EC Plug Fan Motor Power (Watts) 1900 External Static (Pa) 250 Fan Diameter 355 Number of Fans 1 ELECTRICAL Supply Fan FLA (A) 3.0 2.6 - 2.6 - 2.6 Exhaust Fan FLA (A) 5.0 - 5.0 - 5.0 Compressor Current (A) Nominal Run Current (A) 10.6 - 7.6 - 7.6 14.0 - 14.0 - 14.0 Maximum Full Load (A) Volt/Phase 415V/3ph Switchboard Yes Circuit Breakers Yes CONTROLS 0-10V DC (Fan Control) Included 24V AC Control Relays Included Fan Fault Signal Included Fan Status Available

Ambient (DB/WB) Summer35°C/24°CReturn Air (DB/WB) Summer24°C/17°CAmbient Winter7°CReturn Air Winter21°C COLL SELECTION 740 x 400Indoor Coil FL x FH (mm)740 x 500Face Velocity (m/sec)1.7Outdoor Coil FL x FH (mm)740 x 500Face Velocity (m/sec)2.6Anti-Corrosion Coil CoatingIncludedDrain Tray12Heating Capacity (kW)*12Cooling Capacity (kW)*12Conpressor1- Fixed SpeedRefrigerant GasR407CExpansion DeviceTX Biflow ValvesHead Pressure ControlIncluded	HEAT EXCHANGER	*RATED AT STANDARD CONDITIONS OF 35.5° db/24.0° wb
Nondule Size (mm)Si0x x 500 x 400DNumber of Modules2Face Velocity (m/sec)1.43Pressure Drop (Pa)80.2Kw Recovered (Cooling)*3.1Kw Recovered (Heating)*10.2CABINET CONSTRUCTIONSurf Mist ColourbondCasingSurf Mist ColourbondInsulation ValueR2.0Side Access PanelsIncludedPressure (DB/WB) Summer35°C/24°CAmbient (DB/WB) Summer21°CAmbient (DB/WB) Summer21°CAmbient Winter7°CReturn Air (DB/WB) Summer11°CAmbient Winter11°CPrese Velocity (m/sec)1.7Indoor Coil FL x FH (mm)740 x 400Face Velocity (m/sec)2.6Anti-Corrosion Coil Coating1.1Anti-Corrosion Coil Coating1.2Return Air Gapacity (kW)*12Coling Capacity (kW)*12Retring Capacity (kW)*12Retring Capacity (kW)*12Anding Capacity (kW)*12Retring Capacity (kW)*12Compressor1.7 kixed SpeedRetring Capacity (kW)*12Retring Capacity (kW)*12 </td <td>Enthalphy Media</td> <td>Standard</td>	Enthalphy Media	Standard
Number of Modules2Number of Modules2Face Velocity (m/sec)1.43Pressure Drop (Pa)80.2Kw Recovered (Cooling)*8.1Kw Recovered (Heating)*10.2CABINET CONSTRUCTIONCCasing50mm Insulated PanelFinishSurf Mist ColourbondInsulation ValueR2.0Side Access PanelsIncludedAmbient (DB/WB) Summer35°C/24°CAmbient (DB/WB) Summer24°C/17°CAmbient Winter7°CReturn Air (DB/WB) Summer11°CAmbient Winter7°CReturn Air Winter11°CFace Velocity (m/sec)1.7Indoor Coil FL x FH (mm)740 x 400Face Velocity (m/sec)2.6Anti-Corrosion Coil Coating1.cludedIncluded Course1.2Cooling Capacity (kW)*12Cooling Capacity (kW)*12Retring Farent GasR407CRetring Farent GasR407CExpansion DeviceTA Biflow ValvesHead Pressure ControlIncluded o-10V	Sensible Media	Available
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Return Air Winter21°CCOIL SELECTIONIndoor Coil FL x FH (mm)740 x 400Face Velocity (m/sec)1.7Outdoor Coil FL x FH (mm)740 x 500Face Velocity (m/sec)2.6Anti-Corrosion Coil CoatingIncludedDrain TrayStainless SteelHeating Capacity (kW)*12Cooling Capacity (kW)*12Refrigerant GasR407CRefrigerant GasTX Biflow ValvesHead Pressure ControlIncludedHead Pressure ControlIncludedHead Pressure ControlIncluded 0 - 10V	Return Air (DB/WB) Summer	24°C/17°C
COIL SELECTIONIndoor Coil FL x FH (mm)740 x 400Face Velocity (m/sec)1.7Outdoor Coil FL x FH (mm)740 x 500Face Velocity (m/sec)2.6Anti-Corrosion Coil CoatingIncludedDrain TrayStainless SteelREFRIGERATION *At standard Using Capacity (kW)*12Cooling Capacity (kW)*12Cooling Capacity (kW)*1- Fixed SpeedRefrigerant GasR407CKapansion DeviceTX Biflow ValvesHead Pressure ControlIncludedCONOMY CYCLEEIncluded 0 - 10V	Ambient Winter	7°C
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Face Velocity (m/sec)1.7Outdoor Coil FL x FH (mm)740 x 500Face Velocity (m/sec)2.6Anti-Corrosion Coil CoatingIncludedDrain TrayStainless SteelDrain Tray12Heating Capacity (kW)*12Cooling Capacity (kW)*1- Fixed SpeedRefrigerant GasR407CExpansion DeviceTX Biflow ValvesHead Pressure ControlIncludedECONOMY CYCLEIncluded 0 - 10V	COIL SELECTION	
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Face Velocity (m/sec)2.6Anti-Corrosion Coil CoatingIncludedDrain TrayStainless SteelREFRIGERATION *At standard demonstration temperaturesHeating Capacity (kW)*12Cooling Capacity (kW)*12Compressor1 - Fixed SpeedRefrigerant GasR407CExpansion DeviceTX Biflow ValvesHead Pressure ControlIncludedECONOMY CYCLEIncluded 0 - 10V	Face Velocity (m/sec)	1.7
Anti-Corrosion Coil Coating Drain TrayIncludedBrain TrayStainless SteelREFRIGERATION *At standard temperaturesHeating Capacity (kW)*12Cooling Capacity (kW)*12Compressor1- Fixed SpeedRefrigerant GasR407CExpansion DeviceTX Biflow ValvesHead Pressure ControlIncludedECONOMY CYCLEIncluded 0 - 10V	Outdoor Coil FL x FH (mm)	740 x 500
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REFRIGERATION *At standard design temperaturesHeating Capacity (kW)*12Cooling Capacity (kW)*12Compressor1 - Fixed SpeedCompressor1 - Fixed SpeedRefrigerant GasR407CExpansion DeviceTX Biflow ValvesHead Pressure ControlIncludedECONOMY CYCLEIncluded 0 - 10V	Anti-Corrosion Coil Coating	Included
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Cooling Capacity (kW)*12Compressor1 - Fixed SpeedRefrigerant GasR407CExpansion DeviceTX Biflow ValvesHead Pressure ControlIncludedECONOMY CYCLEIncluded 0 - 10V	REFRIGERATION *At standard de	sign temperatures
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Refrigerant GasR407CExpansion DeviceTX Biflow ValvesHead Pressure ControlIncludedECONOMY CYCLEIncluded 0 - 10V	Cooling Capacity (kW)*	12
Expansion DeviceTX Biflow ValvesHead Pressure ControlIncludedECONOMY CYCLEIncluded 0 - 10V	Compressor	1 - Fixed Speed
Head Pressure Control Included ECONOMY CYCLE Included 0 - 10V	Refrigerant Gas	R407C
ECONOMY CYCLE Economy Cycle Dampers/Motors Included 0 - 10V	Expansion Device	TX Biflow Valves
Economy Cycle Dampers/Motors Included 0 - 10V	Head Pressure Control	Included
	ECONOMY CYCLE	
Return Air Bypass Damper/Motor Included 0 - 10V	Economy Cycle Dampers/Motors	Included 0 - 10V
	Return Air Bypass Damper/Motor	Included 0 - 10V

ERV-PAC PACKAGED AIRCONDITIONING XEP PACKAGED AIRCONDITIONING UNIT W/ ECONOMY CYCLE **XEP500P3EC TECHNICAL DATA**



TECHNICAL DRAWINGS - XEP500P3EC PAC UNIT W/ ECONOMY CYCLE

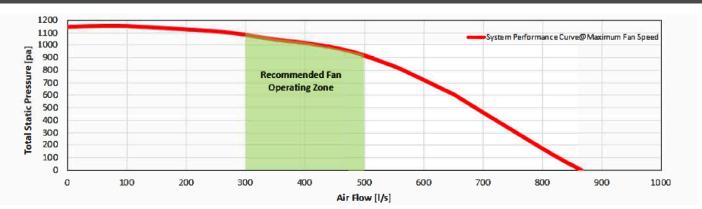


For winter operation the air on to the DX coil must be a minimum of 15°C. If this cannot be achieved, we recommend using a EDH or hot water coil to maintain the correct temperature onto the DX coil.

ERV-PAC PACKAGED AIRCONDITIONING XEP PACKAGED AIRCONDITIONING UNIT W/ ECONOMY CYCLE **XEP500P3EC TECHNICAL DATA**



FAN PERFORMANCE DATA

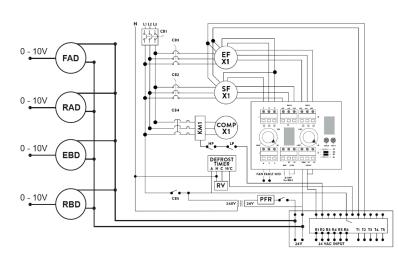


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	65.1	63 Hz	67.7
125 Hz	63.7	125 Hz	65.8
250 Hz	66.9	250 Hz	67.7
500 Hz	71.2	500 Hz	72.2
1 K Hz	68.2	1K Hz	74.1
2K Hz	68.1	2K Hz	76.1
4K Hz	68.2	4K Hz	73.7
8K Hz	65.5	8K Hz	70.5
LwA	74.2	LwA	81
* Sound Power Lovels @600 Po Total Static Pros	cure and EQQ L/c Total Air/Volume		

* Sound Power Levels @600 Pa Total Static Pressure and S00 I/s Total Air Volume.

WIRING DIAGRAM



Designed and manufactured in Australia

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FAN CONTROLLER

0-10V DC BMS CONN	NECTION or		
24V AC	FAN SPEED VIA POTS		
STANDARD INCLUSIONS			
CB	CIRCUIT BREAKERS		
R1	TIME DELAY RELAY		
PFR	PHASE FAILURE RELAY		
RV	REVERSING VALVE		
HP	HIGH PRESSURE		
LP	LOW PRESSURE		
MCB	COMPRESSOR OVERLOAD		
CCH	COMP. SUMP HEATER		
OPTIONS			
CSR	CURRENT SENSING RELAY (T1 T2)		
T3 T4	0-10V DIGITAL COMP.		
DAMPER MOTORS			
FAD	FRESH AIR DAMPER MOTOR		
RAD	RETURN AIR DAMPER MOTOR		
EBD	ECONOMY BYPASS DAMPER MOTOR		
RBD	RETURN AIR BYPASS DAMPER MOTOR		

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