

# DEHUMIDIFICATION EQUIPMENT

## PACKAGED AIR CONDITIONING UNIT

### DHP4500P3 TECHNICAL DATA



TECHNICAL SPECIFICATIONS	DHP4500-100P3	DHP4500-125P3	DHP4500-190P3
DESIGN TO SUIT STANDARD CONDITIONS IN	PERTH/ADELAIDE	MELBOURNE/SYDNEY	BRISBANE/NTH QLD
<b>NOMINAL AIRFLOW</b>			
Supply Air (l/sec)	4500	4500	4500
Fresh Air (l/sec)	4500	4500	4500
Condensor Air (l/sec)	8000	10000	15200
Compressor Capacity (kW)	100	125	190
<b>SUPPLY FAN</b>			
Fan Type	Plug Fan	Plug Fan	Plug Fan
Fan Motor	EC Motor	EC Motor	EC Motor
Motor Power (Watts)	1900	1900	1900
External Static (Pa)	250	250	250
Fan Diameter (mm)	355	355	355
Number of Fans	3	3	3
<b>CONDENSER FAN</b>			
Fan Type	Axial Fan	Axial Fan	Axial Fan
Fan Motor	EC Motor	EC Motor	EC Motor
Motor Power (Watts)	2560	2560	3200
Number of Fans	2	2	4
<b>ELECTRICAL</b>			
Supply Fan FLA (A)	7.8-7.8-7.8	7.8-7.8-7.8	7.8-7.8-7.8
Condenser Fan FLA (A)	7.8-7.8-7.8	7.8-7.8-7.8	20.0-20.0-20.0
Compressor Current (A)	54-54-54	65-65-65	94-94-94
Nominal Run Current (A)	69.6-69.6-69.6	80.6-80.6-80.6	121.8-121.8-121.8
Maximum Run Current (A)	90-90-90	104-104-104	158-158-158
Volts/Phase	415V/3Ph	415V/3Ph	415V/3Ph
Switchboard	Yes	Yes	Yes
Circuit Breakers	Yes	Yes	Yes
<b>CONTROLS</b>			
0-10V DC (Supply Fan Control)	Included	Included	Included
0-10V DC (Compressor Capacity) Stage 1	Included	Included	Included
Compressor Fault	Low Level	Low Level	Low Level
Fan Fault Signal	24V Output	24V Output	24V Output
Fan Status	Optional	Optional	Optional
Fire Trip	Voltage Free Contracts	Voltage Free Contracts	Voltage Free Contracts
Low Level Controller (Remote Enable)	Included	Included	Included
Supply Air Duct Sensor	Included	Included	Included
Outdoor Ambient Sensor (Cool only models)	Optional	Optional	Optional
High Level Interface	Not Included	Not Included	Not Included
Control Relays for BMS Connection	Optional	Optional	Optional
Bypass Supply Air Damper	Included	Included	Included
Condensor Fan	Head Pressure Controlled	Head Pressure Controlled	Head Pressure Controlled

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HEAT EXCHANGER			
Sensible Media	Standard	Standard	Standard
Face Velocity (m/sec)	2.38	2.38	2.38
Media Access	Removable	Removable	Removable
Pressure Drop (Pa)	130	130	130
CABINET CONSTRUCTION			
Colourbond Casing	50mm Panel	50mm Panel	50mm Panel
Galvanised Base	100x50	100x50	100x50
DESIGN TEMPERATURES			
Ambient Summer (DB/WB)	40°C / 27°C	35°C / 24°C	35°C / 27°C
Supply Air Summer (DB/WB)	24°C / 17°C	24°C / 17°C	24°C / 17°C
Supply Air Moisture Content (g/kg)	9.4	9.4	9.4
Ambient Winter (DB)	5°C	3°C	5°C
Supply Air Winter (DB)	21°C	21°C	21°C
COIL SELECTION			
Indoor Coil Circuits	3	3	4
Face Velocity (m/sec)	2.3	2.3	2.3
Coil Coating	Included	Included	Included
Drain Tray	Stainless Steel	Stainless Steel	Stainless Steel
COMPRESSOR DETAILS			
Total Cooling Capacity (kW)	100	125	190
Sensible Capacity (kW)	84	71	75
Latent Capacity (kW)	16	54	115
No. of Compressor	3	3	4
Stage 1	Digital 10-100% Capacity	Digital 10-100% Capacity	Digital 10-100% Capacity
Stage 2	Fixed Speed	Fixed Speed, VSD	Fixed Speed, VSD
Stage 3	Fixed Speed	Fixed Speed	Fixed Speed
Stage 4	None	None	Fixed Speed
Refrigerant Gas	R407C	R407C	R407C
Expansion Device	TX Biflow Valves	TX Biflow Valves	TX Biflow Valves
Total Heating Capacity (kW)	67	65	100
FILTERS			
Filter Type	F5 Deep Bed Filter	F5 Deep Bed Filter	F5 Deep Bed Filter
Number of Filters / Size	3/600 x 600 x 380d	3/600 x 600 x 380d	3/600 x 600 x 380d
Number of Filters / Size	4/600 x 300 x 380d	4/600 x 300 x 380d	4/600 x 300 x 380d
OPTION			
Corrosion Resistant Lining	Available	Available	Available

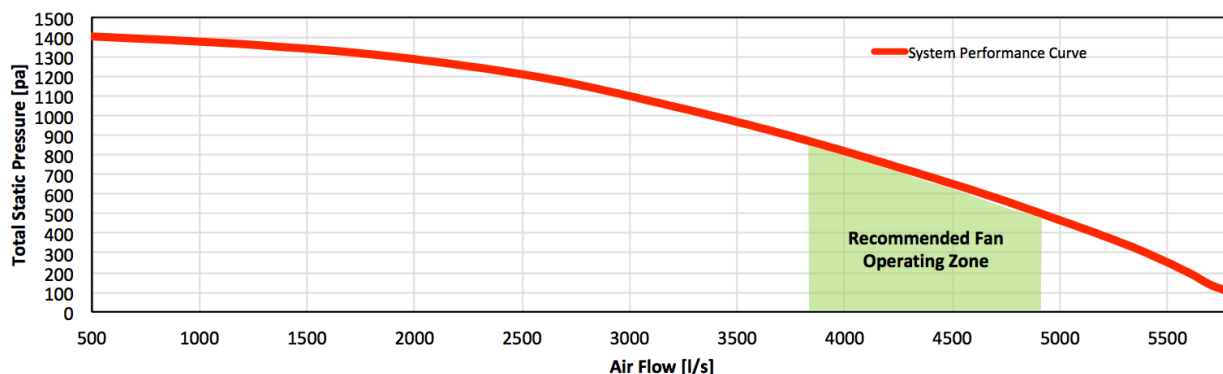
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### FAN PERFORMANCE DATA



### SOUND POWER LEVELS\*

INLET RATING dB		OUTLET RATING dB	
63 Hz	70.4	63 Hz	75.9
125 Hz	66.9	125 Hz	69.3
250 Hz	76	250 Hz	77.8
500 Hz	74.7	500 Hz	76.8
1K Hz	71.2	1K Hz	79.3
2K Hz	73.6	2K Hz	79.1
4K Hz	76.5	4K Hz	80.8
8K Hz	74.1	8K Hz	77.5
LwA	81.4	LwA	86.2

\* Sound Power Levels @ 650 Pa Total Static Pressure and 4500 l/s Total Air Volume.

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