

DEHUMIDIFICATION EQUIPMENT

PACKAGED AIR CONDITIONING UNIT

DHP5000P3 TECHNICAL DATA



TECHNICAL SPECIFICATIONS	DHP5000-115P3	DHP5000-140P3	DHP5000-214P3
DESIGN TO SUIT STANDARD CONDITIONS IN	PERTH/ADELAIDE	MELBOURNE/SYDNEY	BRISBANE/NTH QLD
NOMINAL AIRFLOW			
Supply Air (l/sec)	5000	5000	5000
Fresh Air (l/sec)	5000	5000	5000
Condensator Air (l/sec)	9200	11200	17120
Compressor Capacity (kW)	115	140	214
SUPPLY FAN			
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	4	4	4
CONDENSER FAN			
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
ELECTRICAL			
Supply Fan FLA (A)	10.4-10.4-10.4	10.4-10.4-10.4	10.4-10.4-10.4
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)	59-59-59	76-76-76	105-105-105
Nominal Run Current (A)	77.2-77.2-77.2	94.2-94.2-94.2	135.4-135.4-135.4
Maximum Run Current (A)	100-100-100	120-120-120	175-175-175
Volts/Phase	415V/3Ph	415V/3Ph	415V/3Ph
Switchboard	Yes	Yes	Yes
Circuit Breakers	Yes	Yes	Yes
CONTROLS			
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
Condensator 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)	2.26	2.26	2.26
Media Access	Removable	Removable	Removable
Pressure Drop (Pa)	119	119	119
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)	2.18	2.18	2.18
Coil Coating	Included	Included	Included
Drain Tray	Stainless Steel	Stainless Steel	Stainless Steel
COMPRESSOR DETAILS			
Total Cooling Capacity (kW)	115	140	214
Sensible Capacity (kW)	93	80	81
Latent Capacity (kW)	22	60	133
No. of Compressor	3	3	4
Stage 1	Digital 10-100% Capacity	Digital 10-100% Capacity	Digital 10-100% Capacity
Stage 2	Fixed Speed, VSD	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)	115	80	120
FILTERS			
Filter Type	F5 Deep Bed Filter	F5 Deep Bed Filter	F5 Deep Bed Filter
Number of Filters / Size	4/600 x 600 x 380d	4/600 x 600 x 380d	4/600 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

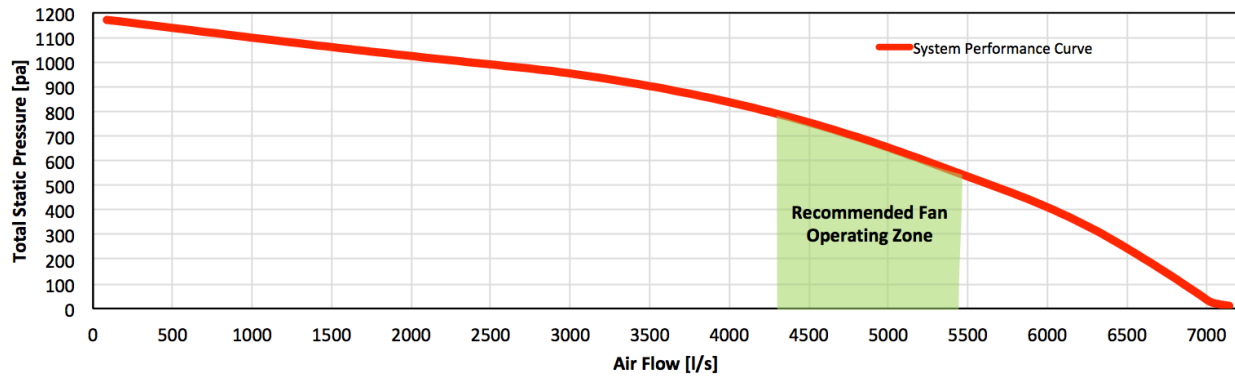
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FAN PERFORMANCE DATA



SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	68.4	63 Hz	70.8
125 Hz	66.2	125 Hz	67.9
250 Hz	80.1	250 Hz	77.8
500 Hz	75.2	500 Hz	79.2
1K Hz	71.3	1K Hz	81.4
2K Hz	72.9	2K Hz	79.5
4K Hz	69	4K Hz	74.4
8K Hz	68.1	8K Hz	71.5
LwA	79.2	LwA	85.4

* Sound Power Levels @ 650 Pa Total Static Pressure and 5000 l/s Total Air Volume.

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