

# DEHUMIDIFICATION EQUIPMENT

## PACKAGED AIR CONDITIONING UNIT

### DHP3500P3 TECHNICAL DATA



TECHNICAL SPECIFICATIONS	DHP3500-77P3	DHP3500-99P3	DHP3500-150P3
DESIGN TO SUIT STANDARD CONDITIONS IN	PERTH/ADELAIDE	MELBOURNE/SYDNEY	BRISBANE/NTH QLD
<b>NOMINAL AIRFLOW</b>			
Supply Air (l/sec)	3500	3500	3500
Fresh Air (l/sec)	3500	3500	3500
Condensor Air (l/sec)	6160	7920	12000
Compressor Capacity (kW)	77	99	150
<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	2560
Number of Fans	2	2	2
<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	7.8-7.8-7.8
Compressor Current (A)	41-41-41	54-54-54	76-76-76
Nominal Run Current (A)	56.6-56.6-56.6	69.6-69.6-69.6	91.6-91.6-91.6
Maximum Run Current (A)	73-73-73	90-90-90	120-120-120
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)	2.2	2.2	2.2
Media Access	Removable	Removable	Removable
Pressure Drop (Pa)	116	116	116
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	2	3	3
Face Velocity (m/sec)	2.2	2.2	2.2
Coil Coating	Included	Included	Included
Drain Tray	Stainless Steel	Stainless Steel	Stainless Steel
COMPRESSOR DETAILS			
Total Cooling Capacity (kW)	77	99	150
Sensible Capacity (kW)	65	57	57
Latent Capacity (kW)	12	42	93
No. of Compressor	2	3	3
Stage 1	Digital 10-100% Capacity	Digital 10-100% Capacity	Digital 10-100% Capacity
Stage 2	Fixed Speed, VSD	Fixed Speed	Fixed Speed, VSD
Stage 3	None	Fixed Speed	Fixed Speed
Stage 4	None	None	None
Refrigerant Gas	R407C	R407C	R407C
Expansion Device	TX Biflow Valves	TX Biflow Valves	TX Biflow Valves
Total Heating Capacity (kW)	70	60	90
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	3/600 x 300 x 380d	3/600 x 300 x 380d	3/600 x 300 x 380d
OPTION			
Corrosion Resistant Lining	Available	Available	Available

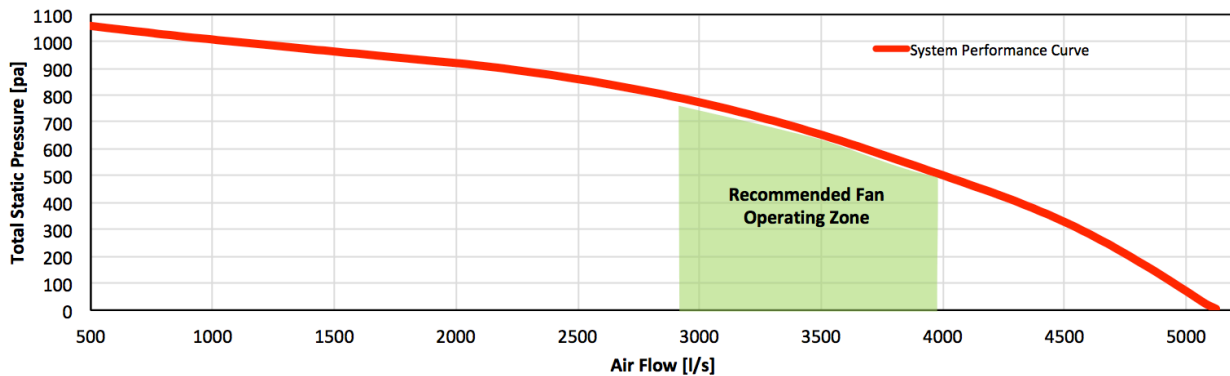
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#### FAN PERFORMANCE DATA



#### SOUND POWER LEVELS\*

INLET RATING dB		OUTLET RATING dB	
63 Hz	66.8	63 Hz	69.3
125 Hz	65.5	125 Hz	67.1
250 Hz	78.8	250 Hz	77.2
500 Hz	74.4	500 Hz	78.4
1K Hz	70.6	1K Hz	80.7
2K Hz	71.6	2K Hz	77.6
4K Hz	68.2	4K Hz	73.6
8K Hz	66.7	8K Hz	70.3
LwA	78.2	LwA	84.3

\* Sound Power Levels @ 650 Pa Total Static Pressure and 3500 l/s Total Air Volume.

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