

# Dehumidification Equipment



## DHP Dehumidification PAC Units DHP1700P3 Technical Data

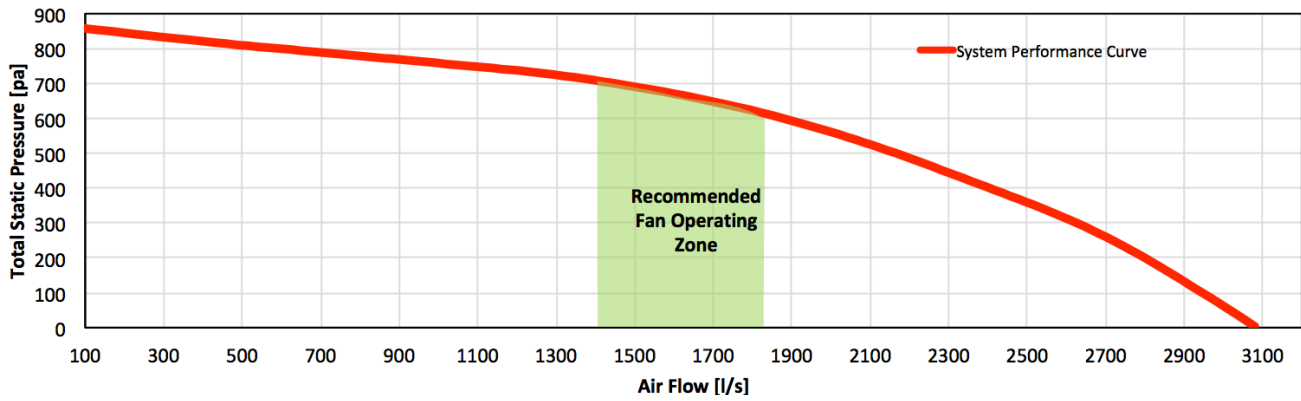
### Technical Specifications

	DHP1700-42P3	DHP1700-52P3	DHP1700-75P3
DESIGN TO SUIT STANDARD CONDITIONS IN	PERTH/ ADELAIDE	MELBOURNE/ SYDNEY	BRISBANE/ NTH QLD
<b>Nominal Airflow</b>			
Supply Air (l/sec)	1700	1700	1700
Fresh Air (l/sec)	1700	1700	1700
Condensor Air (l/sec)	3360	4160	6000
Compressor Capacity (kW)	42	52	75
<b>Supply Fan</b>			
Fan Type	Plug Fan	Plug Fan	Plug Fan
Fan Motor	EC Motor	EC Motor	EC Motor
Motor Power (Watts)	2825	2825	2825
External Static (Pa)	250	250	250
Fan Diameter (mm)	450	450	450
Number of Fans	1	1	1
<b>Condenser Fan</b>			
Fan Type	Axial Fan	Axial Fan	Axial Fan
Fan Motor	EC Motor	EC Motor	EC Motor
Motor Power (Watts)	1950	1950	1950
Number of Fans	1	1	1
<b>Electrical</b>			
Supply Fan FLA (A)	6.8 - 6.8 - 6.8	6.8 - 6.8 - 6.8	6.8 - 6.8 - 6.8
Condenser Fan FLA (A)	3.1 - 3.1 - 3.1	3.1 - 3.1 - 3.1	3.1 - 3.1 - 3.1
Compressor Current (A)	25 - 25 - 25	29 - 29 - 29	41 - 41 - 41
Nominal Run Current (A)	34.9 - 34.9 - 34.9	38.9 - 38.9 - 38.9	50.9 - 50.9 - 50.9
Maximum Run Current (A)	43 - 43 - 43	49 - 49 - 49	66 - 66 - 66
Volt/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)	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
Bypass Supply Air Damper	Included	Included	Included
Compressor Enable 24V	Included	Included	Included
PC-20CC Low Level Controller	Optional	Optional	Optional
PC-30CC High Level Controller	Optional	Optional	Optional

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DESIGN TO SUIT STANDARD CONDITIONS IN	PERTH/ ADELAIDE	MELBOURNE/ SYDNEY	BRISBANE/ NTH QLD
<b>Heat Exchanger</b>			
	*Rated at standard conditions of 35.5° db/24.0° wb		
Sensible Media	Standard	Standard	Standard
Face Velocity (m/sec)	1.8	1.8	1.8
Media Access	Removable	Removable	Removable
Pressure Drop (Pa)	81	81	81
<b>Cabinet Construction</b>			
Colourbond Casing	50mm Panel	50mm Panel	50mm Panel
Galvanised Base	100x50	100x50	100x50
<b>Design Temperatures</b>			
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
<b>Coil Selection</b>			
Indoor Coil Circuits	1	1	1
Face Velocity (m/sec)	1.9	1.9	1.9
Coil Coating	Included	Included	Included
Drain Tray	Stainless Steel	Stainless Steel	Stainless Steel
<b>Compressor Details</b>			
Total Cooling Capacity (kW)	42	52	75
Sensible Capacity (kW)	34	30	29
Latent Capacity (kW)	8	22	46
No. of Compressor	1	1	1
Compressor Type	Inverter 10-100% Capacity	Inverter 10-100% Capacity	Inverter 10-100% Capacity
Refrigerant Gas	R410A	R410A	R410A
Expansion Device	Electronic EV	Electronic EV	Electronic EV
Total Heating Capacity (kW)	30	30	30
<b>Filters</b>			
Filter Type	F5 Deep Bed Filter	F5 Deep Bed Filter	F5 Deep Bed Filter
Number of Filters / Size	2/600 x 600 x 380d	2/600 x 600 x 380d	2/600 x 600 x 380d
<b>Option</b>			
Corrosion Resistant Lining	Available	Available	Available

### Fan Performance Data



### Sound Power Levels

\*Sound power levels at 650 Pa Total Static Pressure and 1700 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	
63 Hz	66.7	63 Hz	69.6
125 Hz	65.7	125 Hz	67.4
250 Hz	76.4	250 Hz	78.7
500 Hz	74.5	500 Hz	76.8
1K Hz	68.9	1K Hz	78.6
2K Hz	69.9	2K Hz	75.6
4K Hz	66.5	4K Hz	71.2
8K Hz	62.4	8K Hz	66.3
LwA	76.7	LwA	82.4

