

AIR HANDLING UNIT

WITH CHILLED/HOT WATER COILS

AHU18000P3 TECHNICAL DATA



TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW		CABINET CONSTRUCTION	
Supply Air (l/sec)	18000	Casing	50mm Panel
SUPPLY FAN		Insulation Value	R2.0
Fan Type	EC Plug	Side Access Panels	Included
Fan Motor	EC Motor	FILTERS - Additional filter box to be ordered seperatiely if required	
Motor Power (Watts)	4700	Type	Deep Bed Filters F5
External Static (Pa)	250	Size L x W x D (mm)	610 x 610 x 380
Fan Diameter	500	Number of Filters	16
Number of Fans	5	Size L x W x D (mm)	610 x 305 x 380
ELECTRICAL		Number of Filters	8
Supply Fan FLA (A)	36.5 - 36.5 - 36.5	Prefilters	Optional
Volt/Phase	415V/3ph	CHILLED WATER COIL - if required (Nom. rating)	
Switchboard	Yes	Total Capacity (Kw)	375 - 395
Circuit Breakers	Yes	Size FL x FH (mm)	5200 x 1550
CONTROLS		Water In (°C)/Water Out (°C)	7°/14°
0-10V DC (Fan Control)	Included	Coil Coating	Epoxy Coated
24V AC Enable	Included	Face Velocity (m/sec)	2.2
Fan Fault Signal	Included	Stainless Steel Drain Tray	Included
		HOT WATER COIL - if required (Nom. rating)	
		Total Capacity (Kw)	375 - 395
		Size FL x FH (mm)	5200 x 1550
		Water In (°C)/Water Out (°C)	80°/60°
		Coil Coating	Epoxy Coated
		Face Velocity (m/sec)	2.2
		DX COIL - if required (Nom. rating)	
		Total Capacity (Kw)	375 - 395
		Size FL x FH (mm)	5200 x 1550
		Refrigerant	R407C / R410A
		Face Velocity (m/sec)	2.2
		OPTIONS	
		Economy Cycle	Available
		75mm Panel Casing	Available
		Corrosion Resistant Lining	Available
		Metu Duct Frames	Available
		Fresh Air/Return Air Dampers	Available

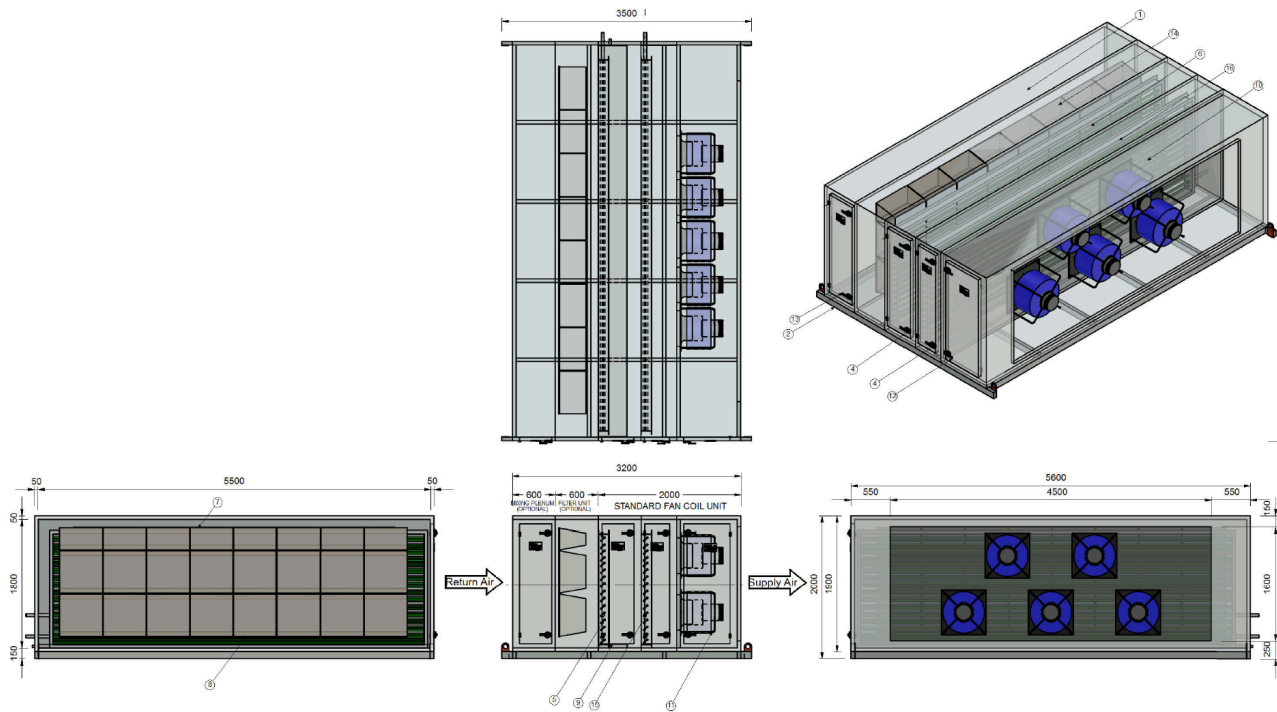
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TECHNICAL DRAWINGS



DIMENSIONS - STANDARD AHU	
Height (mm)	2000
Width (mm)	5600
Length (mm)	2000
Weight (Kg)	1580
Access Clearance (mm)	1200 (Controls & Filter Access)
Access Clearance (mm)	300

DUCT SIZES	
Return Air (mm)	5500 x 1800
Supply Air (mm)	4500 x 1600

DIMENSIONS - AHU with Filters & Mixing Plenum	
Height (mm)	2000
Width (mm)	5600
Length (mm)	3200
Weight (Kg)	1970
Access Clearance (mm)	1200 (Controls & Filter Access)
Access Clearance (mm)	300

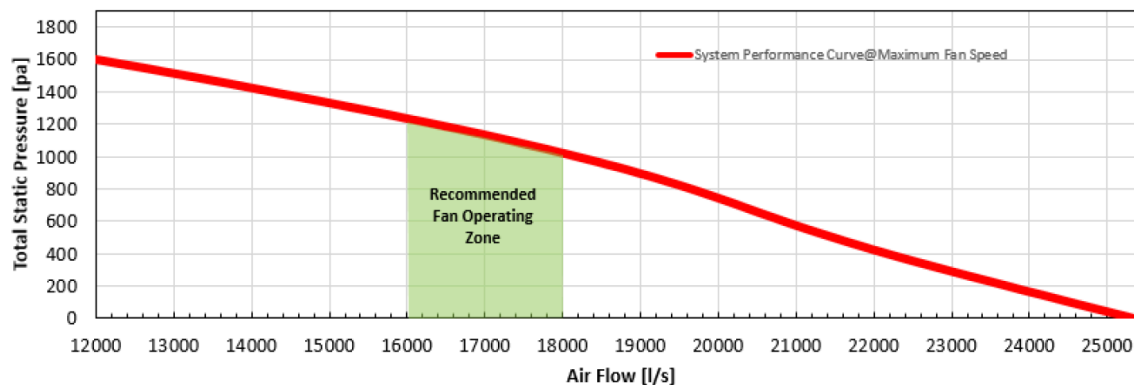
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FAN PERFORMANCE DATA

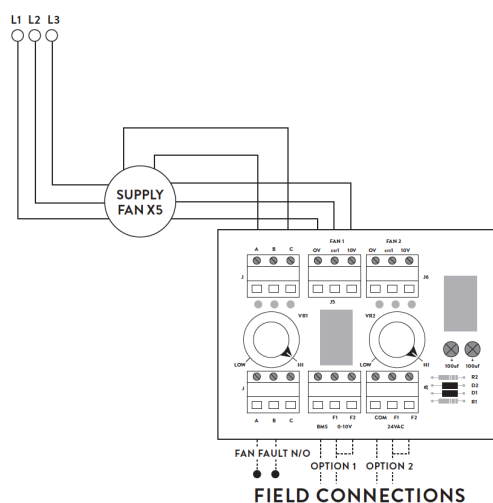


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	68.5	63 Hz	73.8
125 Hz	79.9	125 Hz	83.5
250 Hz	82	250 Hz	82
500 Hz	77.1	500 Hz	83.7
1 K Hz	78.6	1K Hz	88.6
2K Hz	78.7	2K Hz	83.7
4K Hz	91.3	4K Hz	91.5
8K Hz	77.9	8K Hz	80.8
LwA	92.9	LwA	94.9

* Sound Power Levels @650 Pa Total Static Pressure and 18000 l/s Total Air Volume.

WIRING DIAGRAM



OPTION 1

0-10V DC CONTROL VIA CONNECTION TO BMS

OPTION 2

24V AC ENABLE REGULATE FAN SPEED VIA POTS

Do not turn main power on/off to enable/disable the unit operation. This must be done through the control circuit.

Designed and manufactured in Australia

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