

AIR HANDLING UNIT

WITH CHILLED/HOT WATER COILS

AHU20000P3 TECHNICAL DATA



TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW

Supply Air (l/sec)	20000
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SUPPLY FAN

Fan Type	EC Plug
Fan Motor	EC Motor
Motor Power (Watts)	4700
External Static (Pa)	250
Fan Diameter	500
Number of Fans	6

ELECTRICAL

Supply Fan FLA (A)	43.8 - 43.8 - 43.8
Volt/Phase	415V/3ph
Switchboard	Yes
Circuit Breakers	Yes

CONTROLS

0-10V DC (Fan Control)	Included
24V AC Enable	Included
Fan Fault Signal	Included

CABINET CONSTRUCTION

Casing	50mm Panel
Insulation Value	R2.0
Side Access Panels	Included

FILTERS - Additional filter box to be ordered seperatiely if required

Type	Deep Bed Filters F5
Size L x W x D (mm)	610 x 610 x 380
Number of Filters	21
Size L x W x D (mm)	610 x 305 x 380
Number of Filters	7
Prefilters	Optional

CHILLED WATER COIL - if required (Nom. rating)

Total Capacity (Kw)	400 - 440
Size FL x FH (mm)	4200 x 2150
Water In (°C)/Water Out (°C)	7°/14°
Coil Coating	Epoxy Coated
Face Velocity (m/sec)	2.2
Stainless Steel Drain Tray	Included

HOT WATER COIL - if required (Nom. rating)

Total Capacity (Kw)	400 - 440
Size FL x FH (mm)	4200 x 2150
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)	400 - 440
Size FL x FH (mm)	4200 x 2150
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

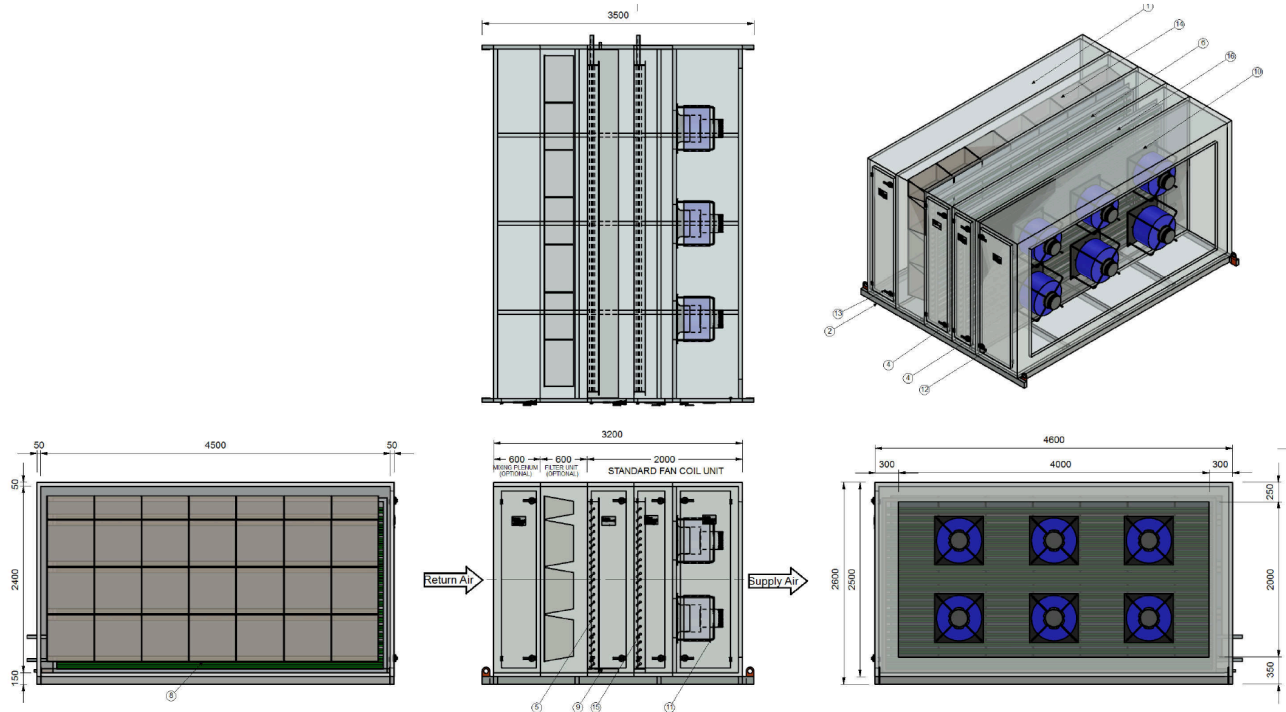
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TECHNICAL DRAWINGS



DIMENSIONS - STANDARD AHU

Height (mm)	2600
Width (mm)	4800
Length (mm)	2000
Weight (Kg)	1670
Access Clearance (mm)	1200 (Controls & Filter Access)
Access Clearance (mm)	300

DUCT SIZES

Return Air (mm)	4700 x 2400
Supply Air (mm)	4000 x 2000

DIMENSIONS - AHU with Filters & Mixing Plenum

Height (mm)	2600
Width (mm)	4800
Length (mm)	3200
Weight (Kg)	2065
Access Clearance (mm)	1200 (Controls & Filter Access)
Access Clearance (mm)	300

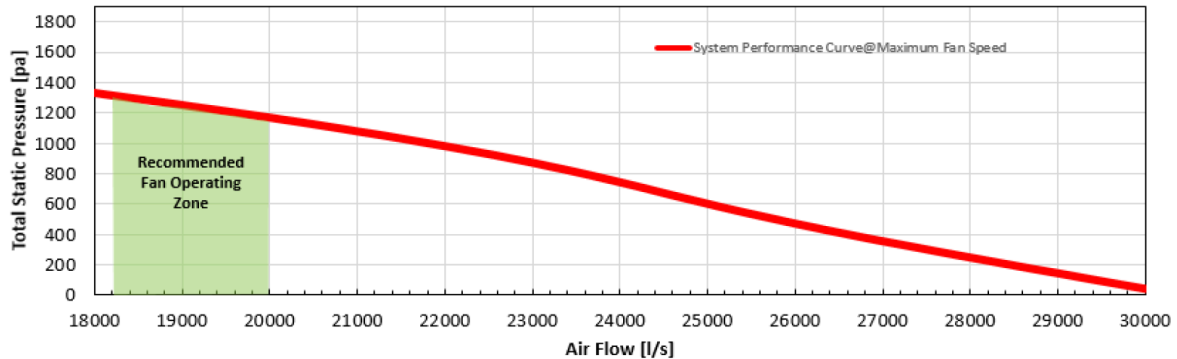
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FAN PERFORMANCE DATA

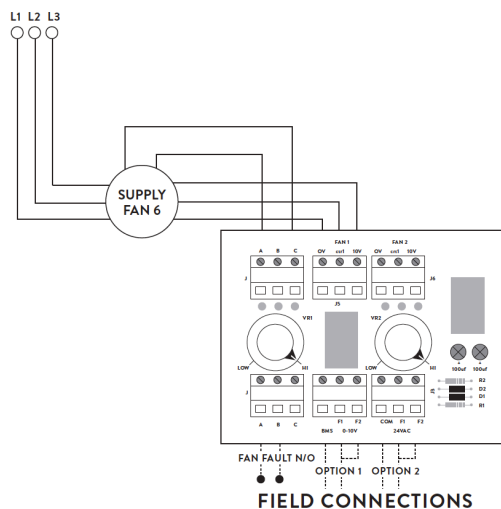


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	66.1	63 Hz	71.4
125 Hz	78.8	125 Hz	81.7
250 Hz	80.1	250 Hz	79.6
500 Hz	75.1	500 Hz	81.8
1 K Hz	76.8	1K Hz	87.9
2K Hz	77	2K Hz	82.3
4K Hz	88.4	4K Hz	89.1
8K Hz	74.4	8K Hz	77.9
LwA	90.2	LwA	93

* Sound Power Levels @650 Pa Total Static Pressure and 20000 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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