

AIR HANDLING UNIT

WITH CHILLED/HOT WATER COILS



AHU2000P3 TECHNICAL DATA

TECHNICAL SPECIFICATIONS

NOMINAL AIRFLOW

Supply Air (l/sec) 1800 - 2000

SUPPLY FAN

Fan Type EC Plug

Fan Motor EC Motor

Motor Power (Watts) 2825

External Static (Pa) 250

Fan Diameter 500

Number of Fans 1

ELECTRICAL

Supply Fan FLA (A) 4.3 - 4.3 - 4.3

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 seperately if required

Type Deep Bed Filters F5

Size L x W x D (mm) 610 x 610 x 380

Number of Filters 2

Size L x W x D (mm) 610 x 305 x 380

Number of Filters 1

Prefilters Optional

CHILLED WATER COIL - if required (Nom. rating)

Total Cooling Capacity (Kw) 39 - 46

Size FL x FH (mm) 1400 x 650

Water In (°C)/ Water Out (°C) 7°/14°

Coil Coating Epoxy

Face Velocity (m/sec) 2.2

Drain Tray Stainless Steel

HOT WATER COIL - if required (Nom. rating)

Total Heating Capacity (Kw) 39 - 46

Size FL x FH (mm) 1400 x 650

Water In (°C)/ Water Out (°C) 80°/60°

Coil Coating Epoxy

Face Velocity (m/sec) 2.2

DX COIL - if required (Nom. rating)

Total Capacity (Kw) 39 - 46

Size FL x FH (mm) 1400 x 650

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

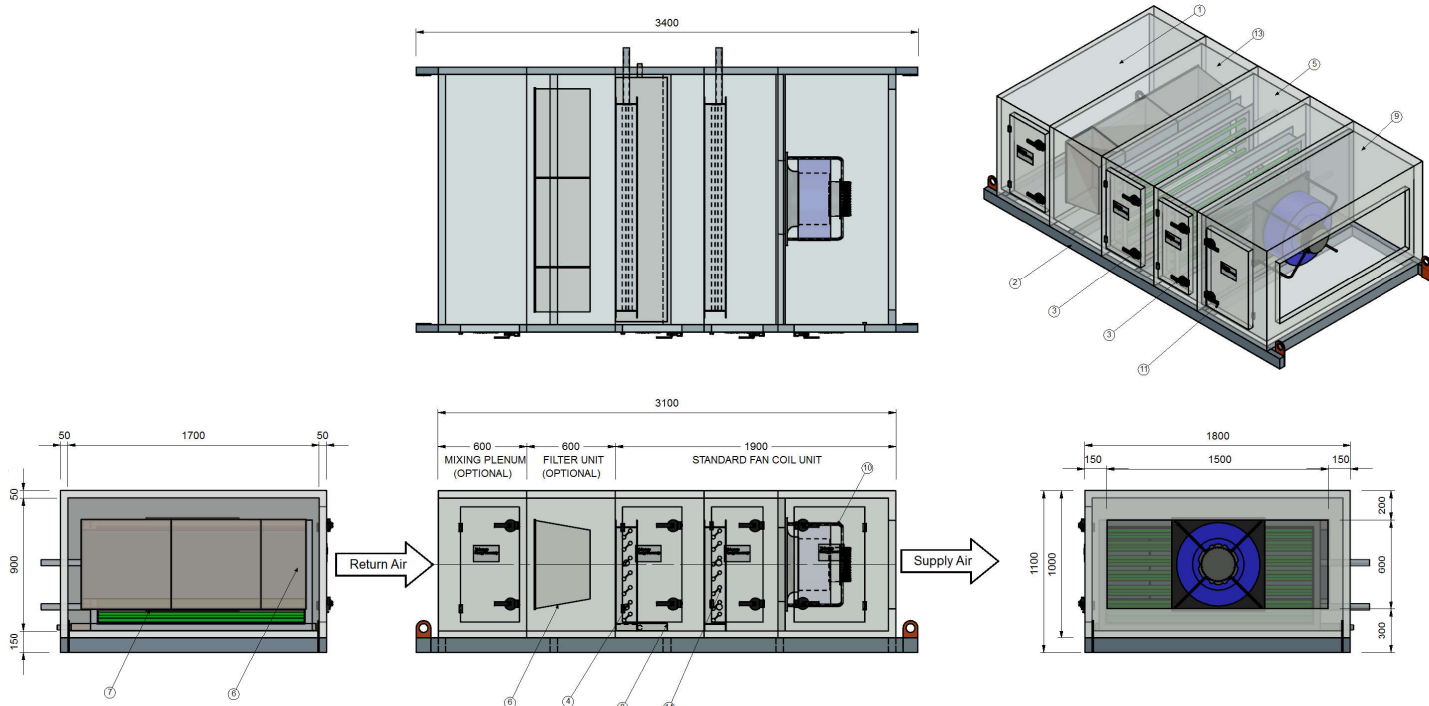
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TECHNICAL DRAWINGS



DIMENSIONS - STANDARD AHU

| | |
|-----------------------|---------------------------------|
| Height (mm) | 1100 |
| Width (mm) | 1800 |
| Length (mm) | 1900 |
| Weight (Kg) | 430 |
| Access Clearance (mm) | 1200 (Controls & Filter Access) |
| Access Clearance (mm) | 300 |

DUCT SIZES

| | |
|-----------------|------------|
| Return Air (mm) | 1700 x 900 |
| Supply Air (mm) | 1500 x 600 |

DIMENSIONS - AHU with Filters & Mixing Plenum

| | |
|-----------------------|---------------------------------|
| Height (mm) | 1100 |
| Width (mm) | 1800 |
| Length (mm) | 3100 |
| Weight (Kg) | 570 |
| Access Clearance (mm) | 1200 (Controls & Filter Access) |
| Access Clearance (mm) | 300 |

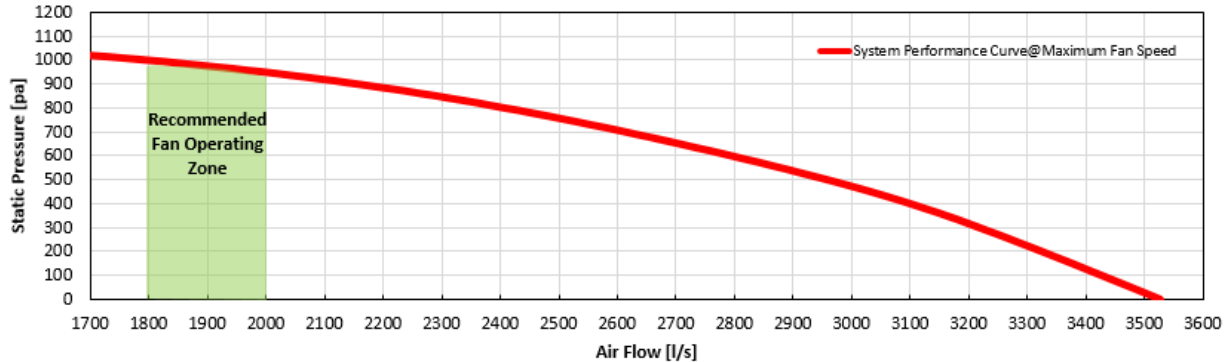
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FAN PERFORMANCE DATA

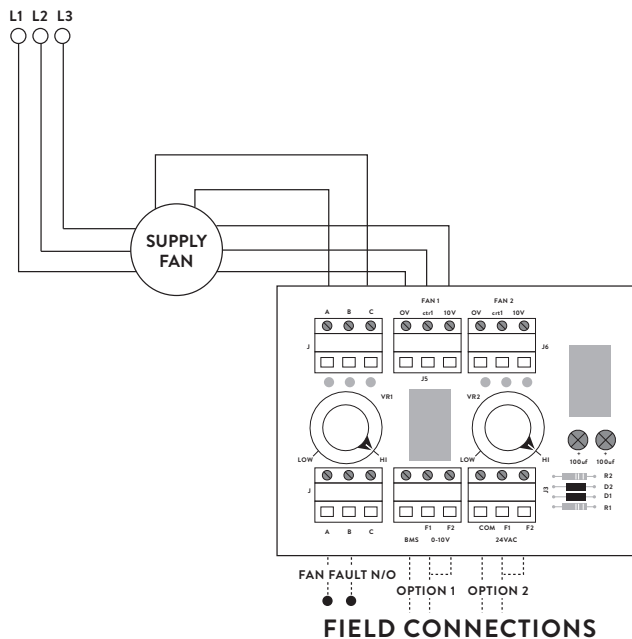


SOUND POWER LEVELS*

| INLET RATING dB | | OUTLET RATING dB | |
|-----------------|------|------------------|------|
| 63 Hz | 69 | 63 Hz | 71.2 |
| 125 Hz | 73.4 | 125 Hz | 75.8 |
| 250 Hz | 77.2 | 250 Hz | 77.9 |
| 500 Hz | 73.8 | 500 Hz | 78.8 |
| 1K Hz | 72 | 1K Hz | 80.7 |
| 2K Hz | 71.7 | 2K Hz | 77.7 |
| 4K Hz | 69.2 | 4K Hz | 74 |
| 8K Hz | 65.6 | 8K Hz | 69.2 |
| LwA | 78.3 | LwA | 84.4 |

* Sound Power Levels @ 650 Pa Total Static Pressure and 2000 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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