

# AIR HANDLING UNIT

## WITH CHILLED/HOT WATER COILS



# AHU10000P3 TECHNICAL DATA

### TECHNICAL SPECIFICATIONS

#### NOMINAL AIRFLOW

|                    |       |
|--------------------|-------|
| Supply Air (l/sec) | 10000 |
|--------------------|-------|

#### SUPPLY FAN

|                      |          |
|----------------------|----------|
| Fan Type             | EC Plug  |
| Fan Motor            | EC Motor |
| Motor Power (Watts)  | 4700     |
| External Static (Pa) | 250      |
| Fan Diameter         | 500      |
| Number of Fans       | 3        |

#### ELECTRICAL

|                    |                    |
|--------------------|--------------------|
| Supply Fan FLA (A) | 21.9 - 21.9 - 21.9 |
| 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   | 8                   |
| Size L x W x D (mm) | 610 x 305 x 380     |
| Number of Filters   | 4                   |
| Prefilters          | Optional            |

#### CHILLED WATER COIL - if required (Nom. rating)

|                               |                 |
|-------------------------------|-----------------|
| Total Cooling Capacity (Kw)   | 190 - 210       |
| Size FL x FH (mm)             | 2600 x 1550     |
| 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)   | 190 - 210   |
| Size FL x FH (mm)             | 2600 x 1550 |
| 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)   | 190 - 210     |
| Size FL x FH (mm)     | 2600 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 |

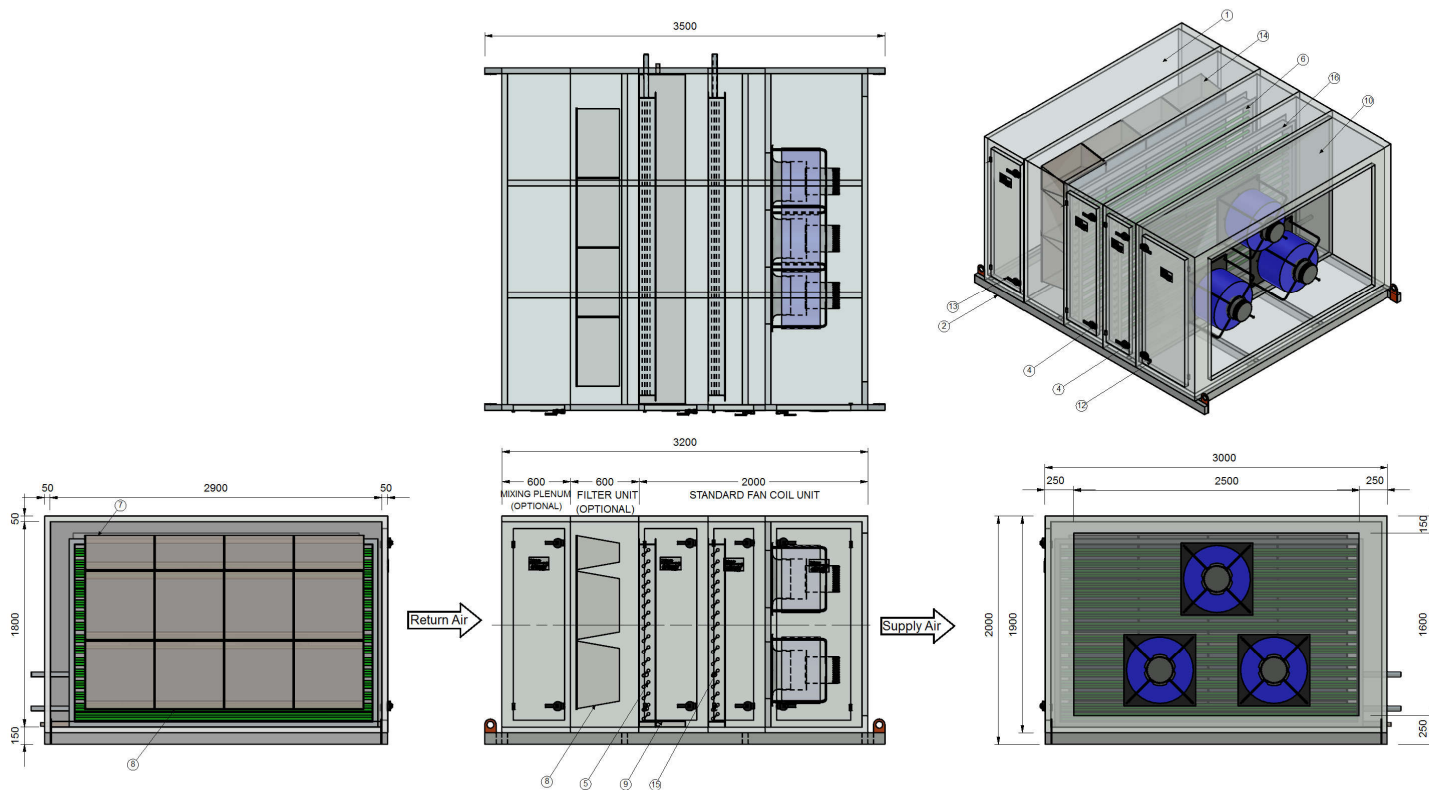
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# AHU10000P3 TECHNICAL DATA



### TECHNICAL DRAWINGS



| DIMENSIONS - STANDARD AHU |                                 |
|---------------------------|---------------------------------|
| Height (mm)               | 2000                            |
| Width (mm)                | 3000                            |
| Length (mm)               | 2000                            |
| Weight (Kg)               | 960                             |
| Access Clearance (mm)     | 1200 (Controls & Filter Access) |
| Access Clearance (mm)     | 300                             |

| DUCT SIZES      |             |
|-----------------|-------------|
| Return Air (mm) | 2900 x 1800 |
| Supply Air (mm) | 2000 x 1600 |

| DIMENSIONS - AHU with Filters & Mixing Plenum |                                 |
|---|---------------------------------|
| Height (mm)                                   | 2000                            |
| Width (mm)                                    | 3000                            |
| Length (mm)                                   | 3200                            |
| Weight (Kg)                                   | 1205                            |
| Access Clearance (mm)                         | 1200 (Controls & Filter Access) |
| Access Clearance (mm)                         | 300                             |

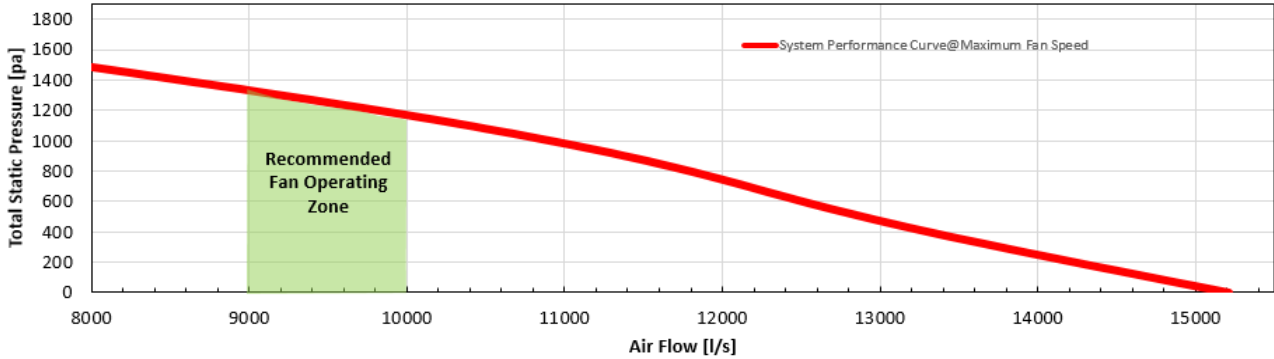
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# AHU10000P3 TECHNICAL DATA

### FAN PERFORMANCE DATA

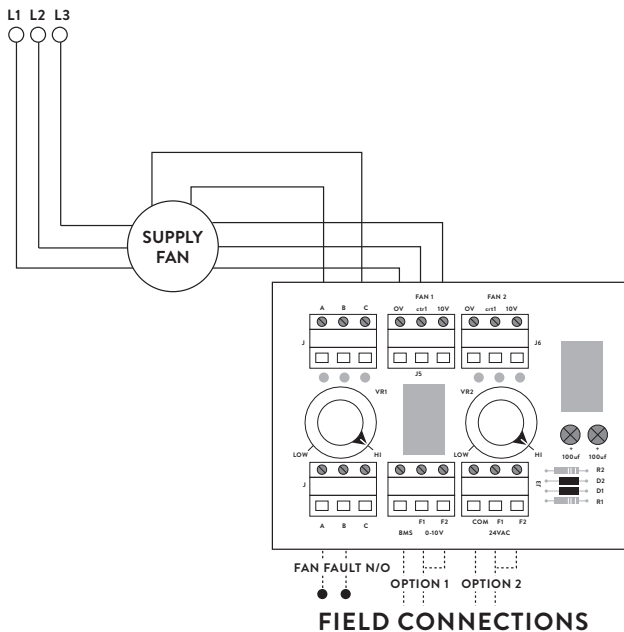


### SOUND POWER LEVELS\*

| 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 |
| 1K 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 10000 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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