

AIR HANDLING UNIT

WITH CHILLED/HOT WATER COILS



AHU500P1 TECHNICAL DATA

TECHNICAL SPECIFICATIONS	
NOMINAL AIRFLOW	
Supply Air (l/sec)	300 - 500
SUPPLY FAN	
Fan Type	EC Plug
Fan Motor	EC Motor
Motor Power (Watts)	750
External Static (Pa)	200
Fan Diameter	250
Number of Fans	1
ELECTRICAL	
Supply Fan FLA (A)	3.0
Volt/Phase	240V/1ph
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	1
Prefilters	Optional
CHILLED WATER COIL - if required (Nom. rating)	
Total Cooling Capacity (Kw)	8 - 12
Size FL x FH (mm)	500 x 450
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)	8 - 12
Size FL x FH (mm)	500 x 450
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)	8 - 12
Size FL x FH (mm)	500 x 450
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

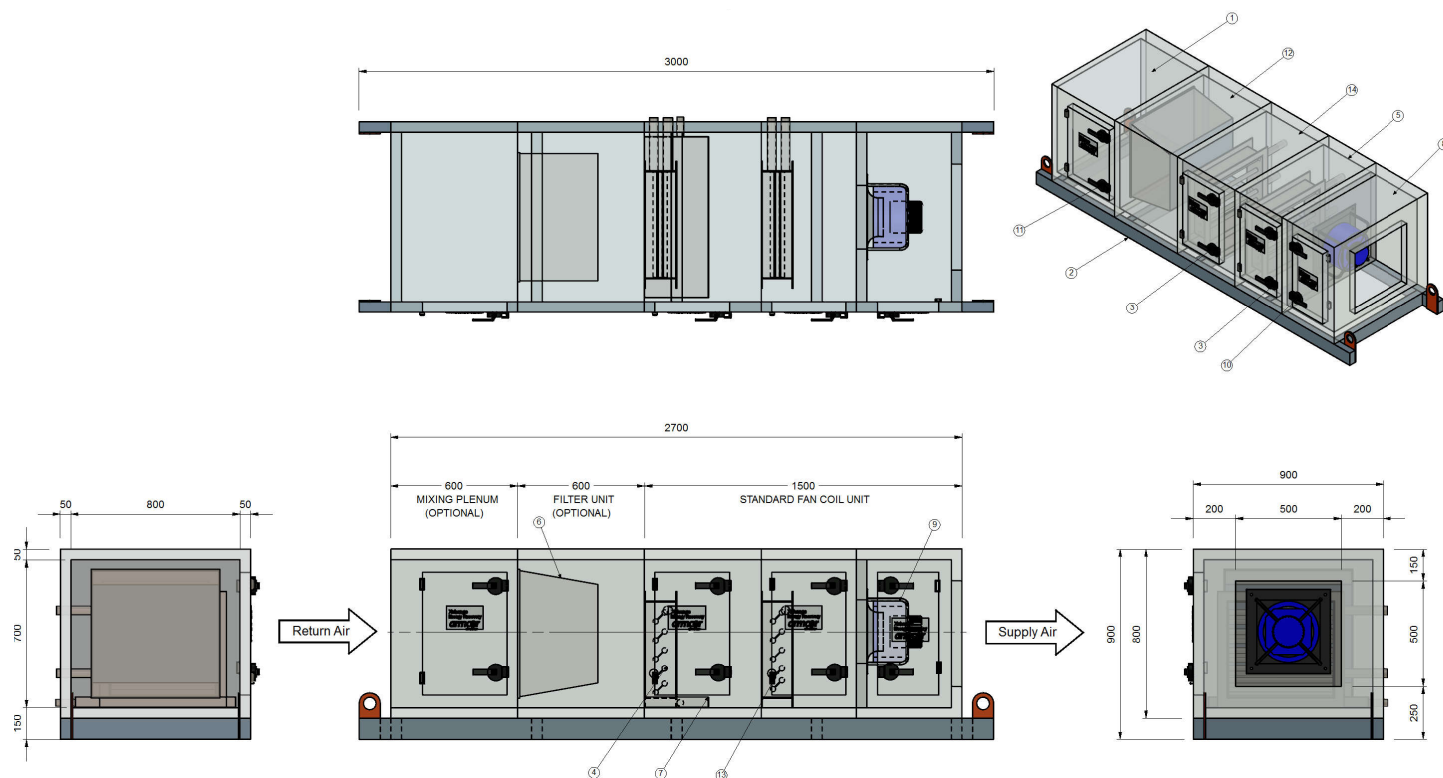
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TECHNICAL DRAWINGS



DIMENSIONS - STANDARD AHU

Height (mm)	900
Width (mm)	900
Length (mm)	1500
Weight (Kg)	220
Access Clearance (mm)	1200 (Controls & Filter Access)
Access Clearance (mm)	300

DUCT SIZES

Return Air (mm)	800 x 700
Supply Air (mm)	500 x 500

DIMENSIONS - AHU with Filters & Mixing Plenum

Height (mm)	900
Width (mm)	900
Length (mm)	2700
Weight (Kg)	310
Access Clearance (mm)	1200 (Controls & Filter Access)
Access Clearance (mm)	300

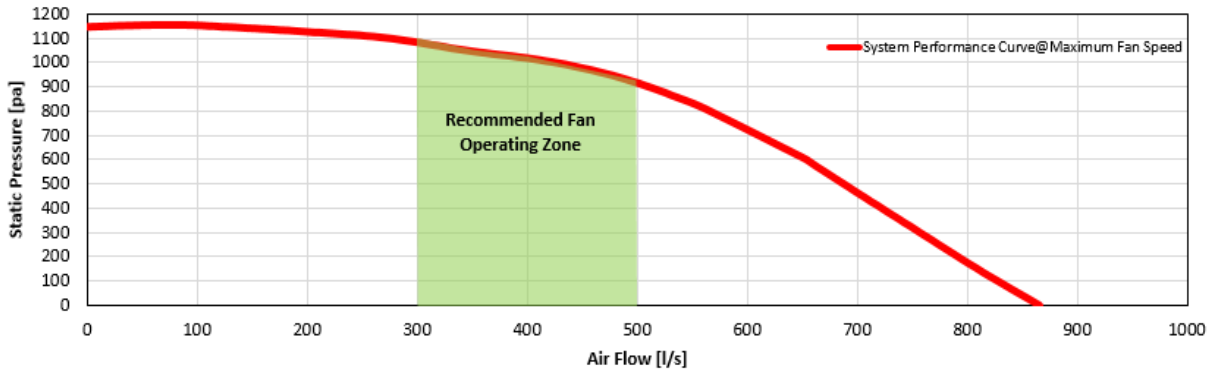
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FAN PERFORMANCE DATA

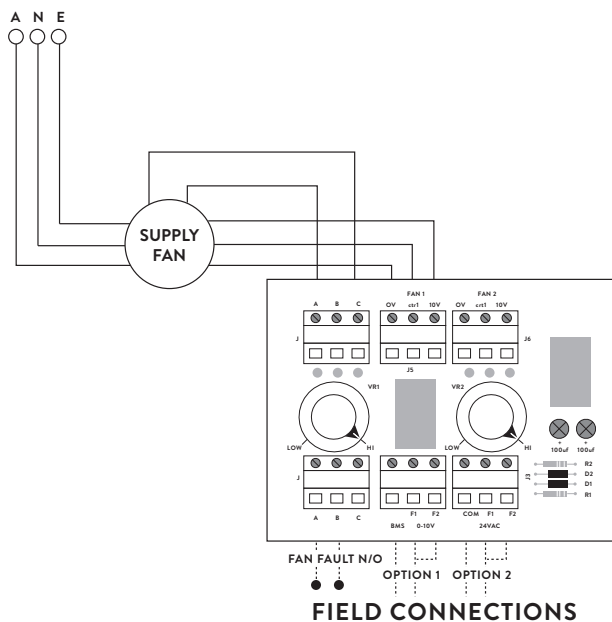


SOUND POWER LEVELS*

INLET RATING dB		OUTLET RATING dB	
63 Hz	65.1	63 Hz	67.7
125 Hz	63.7	125 Hz	65.8
250 Hz	66.9	250 Hz	67.7
500 Hz	71.2	500 Hz	72.2
1K Hz	68.2	1K Hz	74.1
2K Hz	68.1	2K Hz	76.1
4K Hz	68.2	4K Hz	73.7
8K Hz	65.5	8K Hz	70.5
LwA	75.2	LwA	81

* Sound Power Levels @ 600 Pa Total Static Pressure and 500 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

Armcor Air Solutions

109-111 Northcorp Blvd, Broadmeadows 3047

P 1800 244 556 E sales@armcor.com.au

www.armcor.com.au

