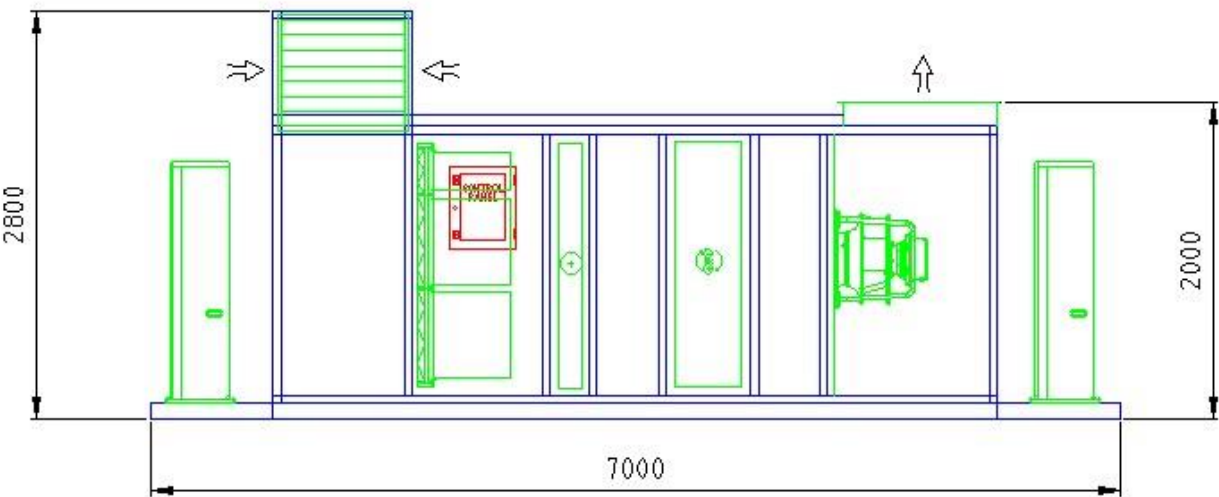
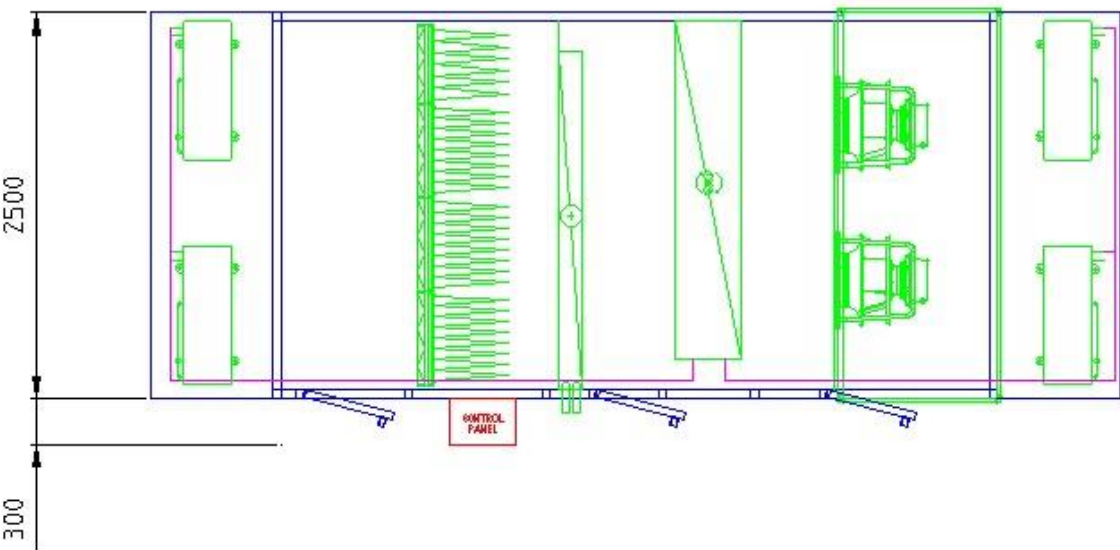


AHU TECHNICAL DATA SELECTION								
AHU REF:	ACORNFIELD AHU				AHU SPECIFIC FAN POWER: 720W/(M3/S)			
UNIT TYPE:	EXTERNAL SUPPLY ONLY	WEIGHT	3450 KG	NO OF SECTIONS	1	QUANTITY	1	
MECHANICAL PROPERTIES (BS EN 1886)	LEAKAGE CLASS: L2 • CASING STRENGTH: D1 • THERMAL TRANSMITTANCE: T3 • THERMAL BRIDGING: TB3 • FILTER BY-PASS: F9 BS13053 AIR VELOCITY CLASS V3 - ERP 2018 COMPLIANT							



SIDE ELEVATION



PLAN VIEW

ACCESS REQUIRED FROM ONE SIDE OF THE UNIT

LOUVRE	SPECIAL FOUR SIDE HIGH LEVEL PENTAPOST LOUVRE SECTION
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ACCESS	STANDARD HINGED
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SUPPLY FILTER	PANEL FILTER	G4 - ISO16890 COARSE 70%	BAG FILTER	F7 - ePM 2.5 70%
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LPHW HEATING COIL								
LPHW 80/60°C	DUTY	216.0 KW	AIR ON / OFF	-5°C / 20°C	FLOW RATE / PD	2.59 L/S / 16 KPA	PIPE SIZES	2"

DX HEAT PUMP REFRIGERANT COOLING COIL (COOLING MODE)							
DUTY	101.3 KW	AIR ON / OFF	29°C (50% RH) / 20°C (78%RH)	EVAPORATING TEMPERATURE	5°C		
REFRIGERANT	R410A	NO OF CIRCUITS	4	DRAIN TRAY	STANDARD FIXED	ELIMINATORS	FITTED

SUPPLY FAN (DIRECT DRIVE BACKWARD CURVED EC PLUG) - 4NO FANS OPERATING IN A DUTY SHARE MODE TO ACHIEVE A COMBINED DUTY OF 7.0M3/S @200PA – ALL DATA IS PER FAN																	
AIR VOLUME	1.75M3/S @200PA	ELECTRICAL	400V - 3PH - 50HZ / 6.0 A FLC	MOTOR POWER	3.9 KW												
INDUCT SOUND POWER LEVELS (INLET)									INDUCT SOUND POWER LEVELS (OUTLET)								
63	125	250	500	1K	2K	4K	8K	HZ	63	125	250	500	1K	2K	4K	8K	HZ
76	79	78	73	73	71	76	62	DB	78	80	78	79	79	78	78	66	DB

CONTROL PANEL

1NO FULLY PRE-WIRED CONTROL PANEL C/W MAINS ISOLATOR. PANEL C/W DIGITAL KEYPAD DISPLAY DETAILING AHU TEMPERATURE SET POINTS AND ACTUAL SENSOR READINGS, ALARM NOTIFICATIONS & FAN SPEEDS.

MCB PROTECTION (FUSE TYPE C).

FIRE ALARM INTERFACE.

FILTER DIRTY INDICATION (DP SWITCHES FITTED).

FULL AHU TEMPERATURE CONTROL FAN

SPEED CONTROLS.

INCLUDING FRESH AIR SENSOR & SUPPLY AIR DUCT SENSOR. FRESH AIR SENSOR PRE-FITTED & PRE WIRED. SUPPLY DUCT SENSOR PRE WIRED AND SUPPLIED COILED UP AT THE UNIT DISCHARGE FOR INSTALLATION INTO THE DUCTWORK BY OTHERS.

FULL 24/7 SCHEDULER FACILITY INBUILT AS STANDARD.

MODBUS BMS FUNCTIONALITY.

INCLUDES MAINS POWER FOR AHU INSPECTION LIGHTS WHERE FITTED.

INCLUDING FULL DX POWER AND CONTROL.

CONTROL APPLICATION: CONSTANT AIRFLOW CONTROL VIA AHU FITTED FAN PRESSURE TRANSDUCERS.

POWER SUPPLY: 148.0 A 3 PHASE NEUTRAL AND EARTH (THE MAINS POWER ISOLATOR SIZE WILL BE HIGHER THAN THIS FIGURE)

SPECIAL FEATURES / CONSTRUCTION / COMMENTS

- ALUMINIUM ANODISED PENTAPOST FRAMEWORK. 45MM DOUBLE SKINNED INSULATED PANELS (FILLED WITH ROCKWOOL MINERAL FIBRE). GALVANISED STEEL INNER & GOOSEWING GREY (BS10A05) PLASTISOL STEEL OUTER. ALL INLET AND OUTLET DUCT CONNECTIONS C/W 30MM DOBY FLANGES. EXCLUDES EXTERNAL DAMPERS.

ACOUSTIC ATTENUATION THROUGH PANELS								
63	125	250	500	1K	2K	4K	8K	HZ
-17	-20	-25	-25	-31	-33	-37	-26	DB

- THE AHU WILL BE SUPPLIED IN THE STATED NUMBER OF SECTIONS. ADDITIONAL COSTS WILL BE INCURRED IF ADDITIONAL SPLITS ARE REQUIRED.
- PIPEWORK / AHU DOOR HARDWARE PROTRUDES BEYOND THE AHU WIDTH APPROXIMATELY 150MM
- SPECIAL AHU SKID C/W PRE-FITTED AND PIPED CONDENSING UNITS
- FRONT WITHDRAWAL FILTER FRAMES
- STANDARD COIL CONSTRUCTION
- ALL ACCESS DOORS ARE HINGED AND HAVE MINIMUM OPENINGS OF 500MM
- 100X50 RSC GALVANISED CHANNEL STEEL BASE FRAME
- PITCHED EXTERNAL RAIN ROOF FITTED
- THE CONTROL PANEL ENCLOSURE PROTRUDES APPROXIMATELY 300MM ON THE UNIT WIDTH FOR ALL EXTERNAL AHU’S
- GALV MESH WIRE DOOR GUARDS & FAN INLET SCREENS FITTED AS STANDARD
- ALL O&M DATA AVAILABLE ELECTRONICALLY
- EC FANS FITTED. EC FANS DO NOT REQUIRE A FREQUENCY INVERTER. THEY REQUIRE A 0-10V SIGNAL VIA AN EXTERNAL CONTROLLER OR CONTROLS SYSTEM SUPPLIED BY OTHERS OR PART OF OUR CONTROLS SYSTEM IF INCLUDED.
- FOR ANY MULTI EC FAN WALL ARRANGEMENTS IN EXCESS OF ONE FAN IT MAY BE NECESSARY TO REMOVE A NEARSIDE FAN TO ACCESS A REAR FAN DEPENDING ON AHU ACCESS / SITE ACCESS SPACE.
- ALL DIMENSIONS / LAYOUTS ARE INDICATIVE QUOTE STAGE FORMATS, NOT TO SCALE AND SUBJECT TO CHANGE