

BNY Four Angel Square
3594-CWC-XX-XX-SH-ME-000004
Air Handling Unit Schedule



Revision: P04 (changes in red)
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Status: Draft
Date: 20.11.2025

AIR HANDLING UNIT SCHEDULE			
AHU Ref.	AHU-11-06	AHU-11-07	Comments
Manufacturer / Model	Air Source	Air Source	
Location of Unit	Roof	Roof	
Quantity	1	1	
Area Served / Description	Town Hall S&E AHU	Kitchen Supply Air Handling Unit	
Nominal AHU Dimensions (mm) (L x W x H)	4,500x1550x2,000	4,605,x1,660x1,250	Excluding attenuators
Type	Supply and Extract with Heat Recovery	Supply only (no heat recovery)	
Construction	50 mm Aluminium pentapost construction complete monobloc interference fit riveted corners		
Unit Weight (kg)	1964	1366	
Leakage Classification	L3	L3	
Max. Supply Air Duty (m³/s)	1.50	4.50	
Max. Supply External Pressure (Pa)	305	385	
Max. Return Air Duty (m³/s)	1.50	n/a	
Max. Return External Pressure (Pa)	305	n/a	
Max. Specific Fan Power (W/(l/s)	1.9	1.1	
Components			
Airside On/Off damper - Intake	Yes	Yes	
Airside On/Off damper - Exhaust	Yes	n/a	
Airside Attenuation - Intake	Yes	Yes	
Airside Attenuation - Exhaust	Yes	Yes	
Frost Coil	No	No	
Mixing Box	No	No	
Heat Recovery	Thermal Wheel >= 75% efficient.	No	To comply with the ErP directive
Heat Recovery Bypass	Yes	No	
Heating Coil	Yes, Split-DX	LTHW Heat Pump	AHU supplier to provide Town Hall AHU condensers also. Refer refrigerant heat pump schedule BNYM-CWC-XX-XX-SH-ME-000008 for details of condensers.
Cooling Coil	Yes, Split-DX	No	
Supply Pre-filter	Bag type. G4	Bag type. G4	
Supply Main Filter	Bag type. F7	Bag type. M6 & F8	
Return Filter	Bag Type. M5	No	
Supply Fan	TBC	TBC	
Supply Fan Electrical Input (kW)	TBC	TBC	
Supply Fan Running Current (A)	TBC	TBC	
Extract Fan	TBC	TBC	
Extract Fan Electrical Input (kW)	TBC	TBC	
Extract Fan Running Current (A)	TBC	TBC	
Access	Side Access	Side Access	
Accessories			
Fan/motor AV Mounts	Yes - by specialist	Yes - by specialist	
Access doors	Quarter Turn Handle	Quarter Turn Handle	
Heating & Cooling			
Heating Coil Duty (kW)	TBC by supplier based on air on/off	120 kW	
Cooling Coil Duty (kW)	TBC by supplier based on air on/off	N/A	
Heating Medium and Flow / Return Temperatures (°C)	n/a. Unit to be Split-DX type	LTHW (TBC by heat pump supplier)	
Air On- Air Off Temperatures (°C)	Air On Summer = 28.8°Cdb, 20°Cwb Air On Winter = -3.9°Cdb, 100°Cwb Air Off Summer = 10°Cdb Air Off Winter = 20°Cdb	Air On Summer = 28.8°Cdb, 20°Cwb Air On Winter = -3.9°Cdb, 100°Cwb Air Off Summer = Uncontrolled Air Off Winter = 18°Cdb	
Maximum Airside Velocity (m/s)	TBC	TBC	
Maximum Airside Velocity (m/s)	TBC	TBC	
Controls	Integral Controls, to be provided by AHU manufacturer.	Integral Controls, to be provided by AHU manufacturer.	

- Notes:**
- 1. Equipment is to be as specified or equal and approved.
 - 2. Contractor shall install condensate drainage from all AHU's. Drain to be thermally insulated in accordance with the insulation specifications.
 - 3. Manufacturer - Air Source Ventilation Limited (0161425 8553)
 - 4. Dimensions of AHUs exclude attenuators.