

Site: National Army Museum, Chelsea
Mechanical Asset List for Maintenance Service

Services:- BMS and HVAC Controls									
Equipment	Location	Quantity	Maintenance						Remarks
			W	2H	M	Q	H	Y	
BMS system with front end PC (with graphics) with BMS outstations local to Boilers, Chiller and AHU plant at roof level. BMS system enables control (set-point adjustment) and monitoring of all AHU plant and monitoring of boiler plant. System model: Cylon controls installed by Ashdown HVAC controls.	Front end in engineers room in basement to serve plantroom office.	All				X			Quarterly service visits required. Over the course of the year, all assets to be serviced. BMS visit to be planned to co-inside with maintenance visits for AHU/AC assets.
Mitsubishi AG-150A controller - panel mounted to serve 4th floor VRF systems c/w control cabling to indoor/outdoor units. C/w TREND controller.	Server Room 4th Floor	All				X			Quarterly service visits required. Over the course of the year, all assets to be serviced. BMS visit to be planned to co-inside with maintenance visits for AHU/AC assets.
Services:- Heating & Cooling									
Equipment	Location	Quantity	Maintenance						Remarks
			W	2H	M	Q	H	Y	
Air Cooled Liquid Chiller Model: Lennox NAC270-DNMSM @ 272kw each @ 6/12°C operation.	External Roof	2				X	X	X	Quarterly service visits required with yearly major and minor service included. Major service to include F-GAS.
AC Condensing Units to serve AHU DX coils on AHU: AE01 and 02 - Archive Supply AHU AM01 and 02 - Store Supply AHU	External Roof	4				X	X	X	Quarterly service visit required with yearly major and minor service included. Major service to include F-GAS
AC Condensing Units (ref/serving) c/w internal AC units AC1 - LG24 - Store Room AC2- LG23 - Store Room AC3 - G15 - Control Room 1A AC4 - LG15 - Film Store AC5 - LG36 - Control Room 1B AC6 - LG36 - Control Room 1B AC7 - 1st Floor AV Control 2	External Roof	7				X	X	X	Quarterly service visit required with yearly major and minor service included. Major service to include F-GAS
Variable Air Volume (VAV) Boxes - Rectangular VAV terminal unit c/w Silencer model: TROX UK - TVJ - Easy model. VAV/LG/TA/01 VAV/LG/TA/02 VAV/LG/TA/03 VAV/LG/TA/04 VAV/LG/GA/01 VAV/LG/CR/01 VAV/LG/L1/01 VAV/LG/L2/02 VAV/LG/EE/01 VAV/LG/EE/02 VAV/LG/SG/01 VAV/LG/SG/02 VAV/LG/SG/03 VAV/LG/SG/04 VAV/LG/KZ/01 VAV/LG/KZ/02 VAV/LG/DR/01 VAV/LG/DR/02 VAV/LG/TE/01 VAV/LG/TE/01 VAV/LG/TE/01 VAV/LG/TE/01 VAV/LG/TE/01 VAV/LG/TE/01	Templer Study A Templer Study A Templer Study A Templer Study A Group Area Corridor (LG.05) Learning Space 1 Learning Space 2 Entrance/Foyer Entrance/Foyer Soldier Gallery Soldier Gallery Soldier Gallery Soldier Gallery Play Base Play Base Dining Room Dining Room Temporary Exhibition Temporary Exhibition Temporary Exhibition Temporary Exhibition Temporary Exhibition Temporary Exhibition	As Listed				X			Access equipment to be provided by Maintenance Contractor.
4-pipe Fan-Coil Units with ducted outlets. Model = Lennox	Various - Floors -2, -1, 0 and 1	41				X			Provide annual strainer clean. Access equipment to be provided by Maintenance Contractor.
3 x VRF Condensers model: Mitsubishi multi-city serving 13 x ducted in-void units to open plan offices and 17 x ceiling cassette units to partitioned offices. Model PUHY-P350+P300+P250 YHMA Indoor unit models PLFY-P15, P20, P25, P40 and P50 VCM with 2 x BC boxes on refrigerant R410A.	Roof/4th Floor					X	X	X	Quarterly service visit required with yearly major and minor service included. Major service to include F-GAS
Split condensers c/w AC indoor units to 4th floor offices and ICT rooms c/w refrigerant pipework/cabling.	Roof/4th Floor	4 / 4				X	X	X	Quarterly service visit required with yearly major and minor service included. Major service to include F-GAS

Services:- Ventilation									
Equipment	Location	Quantity	Maintenance						Remarks
			W	2H	M	Q	H	Y	
AIR HANDLING UNITS comprising of motorised air dampers, bag filter, box filter, heat exchanger, heating and cooling coils, thermal wheels, supply and extract air fans									
AHU No.1 - Soldier Gallery Temporary Exhibition (Supply and Extract air). Lennox Flex 158-16200m³/h	External Roof Plantroom	1							
AHU No.2 - Store (Supply and Extract air). Lennox Flex 014-720m³/h	External Roof Plantroom	1							
AHU No.3 - Lower Ground Floor South Toilets (Supply and Extract air).	Internal Roof Plantroom	1							
AHU No.4 - Cafe (Supply and Extract air). Lennox Flex 0042-4320m³/h	External Roof Plantroom	1							
AHU No.5A & B - Learning Spaces (Supply 5A and Extract 5B). Lennox Flex 070-792m³/h	Internal Roof Plantroom	1							
AHU No.6 - Discovery Gallery (Supply and Extract air). Lennox Flex 027-2880m³/h	Internal Roof Plantroom	1							
AHU No.7 - Ground Floor South Toilets (Supply and Extract air).	Internal Roof Plantroom	1							
AHU No.8 - Lower Ground Floor Stores (Supply and Extract air). Lennox Flex 014-756m³/h	Internal Roof Plantroom	1							
AHU No.9A & B - Battle Gallery (Supply 9A and Extract 9B). Lennox Flex 070-6840m³/h	Internal Roof Plantroom	1							
AHU No.10A & B - Society Gallery (Supply 10A and Extract 10B). Lennox Flex 050-5616m³/h	Internal Roof Plantroom	1			X			X	Monthly service visit required with yearly major service included. 2 x filter changes required per annum.
AHU No.11 - North Toilets (Supply air) and extract. Comes with - TX/01/01- Extract twin fan unit.	4th Floor Roof	1							
AHU No.12 - Boardroom (Supply and Extract air). Lennox Flex 027-2160m³/h	External Roof Plantroom	1							
AHU No.13 - Army Gallery (Supply and Extract air). Lennox Flex 048-4860m³/h	External Roof Plantroom	1							
AHU No.14 - Kids Zone/Templar (Supply and Extract air). Lennox Flex 048-4464m³/h	External Roof Plantroom	1							
AHU No.15 - Retail (Supply and Extract air). Lennox Flex 014-1080m³/h	External Roof Plantroom	1							
AHU No.16 - Archive (Supply and Extract air). Lennox Flex 014-800m³/h	External Roof Plantroom	1							
AHU No.17 - Kitchen Supply (Supply and Extract air). Lennox Flex 050-5400m³/h. Comes with Kitchen Extract Air Fan - KE/GF/01 - Centrifugal box fan. Elta SQV4/4 - 3HTS	External Roof Plantroom	1							
AHU No.AE01 and AE02 - Archive Supply/Re-circulation. AirCraft Units.	Lower Ground Floor Archive	1							
AHU No.AM01 and AM02 - Store Supply/Re-circulation. AirCraft Units.	Lower Ground Floor Store	1							
AHU - 4th Floor Offices - ATC with heat recuperator.	External Roof	1							
AHU Run-around Coil Pumps - Serving AHU 05 A/B, AHU 09 A/B and AHU 10 A/B systems.	Local to relevant AHU Plant	3					X	X	Major and minor service required.
Control actuators, devices, gauges, thermostats and field wiring to all control valves on AHU plant.	Throughout Building	All			X			X	
All supply and extract ventilation air ductwork systems including fire dampers, all balancing dampers, fittings and air diffusers.	Throughout ductwork systems	All						X	Access equipment to be provided by Maintenance Contractor.
All toilet extract air systems with ductwork, fittings, dampers and grilles in ceiling.	Toilet Risers	All						X	Access equipment to be provided by Maintenance Contractor.
Condair Electric Steam Humidifiers - Serving AHU 01, 02 and 16	External Roof Plantroom	3			X				Service to manufacturers service requirements using the Museum's nominated contractor
Ecovent system to treat exhaust emissions and grease odours c/w extract duct system.	Kitchen	1				X	X	X	Maintenance to manufacturers requirements
Services:- Space Heating									
Equipment	Location	Quantity	Maintenance						Remarks
			W	2H	M	Q	H	Y	
Trench Heaters TH/G/01 and 02. Model: LPHW heaters in floor trench by Fraser Engineering Ltd.	Ground Floor Entrance	All					X	X	Major and minor service required. To be maintained to manufacturer service requirements.
Overdoor Air Curtains DC/01 and 02									
Zen G 1500p 16kw	Ground Floor Draught Lobby	1					X	X	Access equipment to be provided by Maintenance Contractor.
Zen G 2500p 32kw	Lower Ground Floor Staff Entrance	1					X	X	
Model: JS Air Curtain - LPHW exposed model.									
Electric Underfloor Heating. Manufacturer: CTD Chester Ltd	All toilets	All					X	X	