



HARLEY
HADDOW

German Historical Institute

Mechanical Equipment Schedule

310311-HAH-XX-XX-L-M-05001

REV P02

Sep 2023

Contact

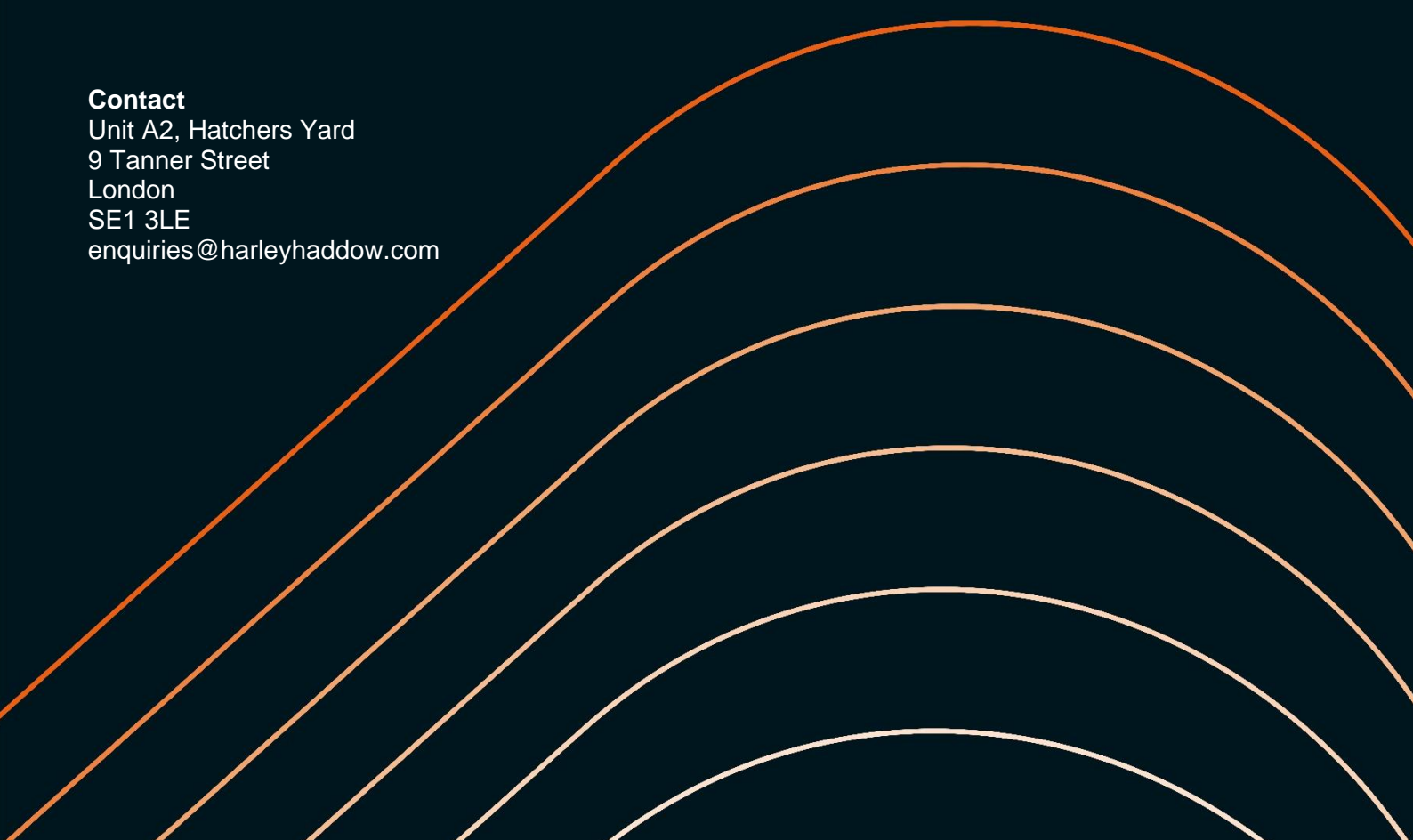
Unit A2, Hatchers Yard

9 Tanner Street

London

SE1 3LE

enquiries@harleyhaddow.com



Document Revision Control

Revisions	Date	Reason for Issue	By	Approved
P01	05.09.23	Tender Issue	YE	AP
P02	20.09.23	Revised Tender Issue	YE	AP

EXISTING AND PROPOSED RADIATOR SCHEDULE

310311 - GERMAN HISTORICAL INSTITUTE
 ENG.: YE
 DATE: 20/09/2023
 REV: P02



GERMAN HISTORICAL INSTITUTE

				Existing Radiator								Proposed Radiator schedule								
Floor	RECEPTION	Rad Ref.	Area (m ²)	Radiator Heights [mm]	Radiator Length [mm]	Radiator Depth [mm]	Existing Manufacturer/ Type and Model	Similar or Possible Radiator Type & Model	Heat output (based on Manufacturer Published data @DT50 and 75/65/20°C Operating Temperature) W	Estimated Total Room heating output (Based on Stelrad radiators with similar size) W	W/m ²	Proposed Floor Area	Proposed Radiator Type & Model	All units are to be stripped out with all associated pipe works and	Total Room Heat out put (W)	W/m ²	Radiator Heights [mm]	Radiator Length [mm]	Radiator Depth [mm]	Notes
GROUND	R.0002 - RECEPTION	R.0.01	50	300	1000	100	Stelrad / Compact / K2		982	4910	98	50			5016	100.32				Radiator to be stripped out
		R.0.02		300	1000	100	Stelrad / Compact / K2		982				Zehnder/ Charleston /5045	1672			450	1038	173	
		R.0.03		300	1000	100	Stelrad / Compact / K2		982				Zehnder/ Charleston /5045	1672			450	1038	173	
		R.0.04		300	1000	100	Stelrad / Compact / K2		982				Zehnder/ Charleston /5045	1672			450	1038	173	
		R.0.05		300	1000	100	Stelrad / Compact / K2		982											Radiator to be stripped out
	R.0001 - LOBBY	R.0.06	9	750	1430	55		Stelrad / Classic / K1 (700h x 1600w)	1787	1787	199	9	Zehnder/ Charleston /3060-30	1827	1827	203	600	1406	128	Existing Radiator Types could not be identified. Hence, the heating load has been estimated based on similar size.
	R.0003 - CORRIDOR	R.0.07	15	600	1100			Stelrad / Classic / K1	1078	1078	72	15	Zehnder/ Charleston /2060-24	1080	1080	72	592	1130	90	
	R.0007 - RESTING ROOM	R.0.08	26	450	900	100	Stelrad / Compact / K2		1234	2468	95	35	Zehnder/ Charleston / 4060-22-F	1756	3512	102	675	1038	164	
		R.0.09		450	900	100	Stelrad / Compact / K2		1234				Zehnder/ Charleston / 4060-22-F	1756			675	1038	164	
	R.0004 - MAIN STAIRS	R.0.10		450	1225	200	Diffusion, Fan convector	The unit is obsolete and data could not be obtained from manufacturer.						Zehnder/ Charleston /2060-24	1080	1080		592	1130	90
R.0005 - SECOND STAIRS	R.0.11		450	1225	200	Diffusion, Fan convector	The unit is obsolete and data could not be obtained from manufacturer.													Existing fan convector unit to be stripped out
FIRST	R.1002 - COMMON ROOM	R.1.01	40.39	300	1000	100	Stelrad / Compact / K2		982	4432	110	40.39	Zehnder/ Charleston /4040-22-F	1209	4836	120	475	1038	164	
		R.1.02		300	1000	100	Stelrad / Compact / K2		982				Zehnder/ Charleston /4040-22-F	1209			475	1038	164	
		R.1.03		450	900	100	Stelrad / Compact / K2		1234				Zehnder/ Charleston /4040-22-F	1209			475	1038	164	
		R.1.04		450	900	100	Stelrad / Compact / K2		1234				Zehnder/ Charleston /4040-22-F	1209			475	1038	164	
	R.1001 - MEETING ROOM	R.1.05	66.42	450	1000	100	Stelrad / Compact / K2		1371	1371	20.64									

- Notes.
- The heating Loads for the existing radiators are taken from manufacturers' published data @DT50°C Tested to EN442 standard
 - New Proposed radiator sizes have been selected to match the heating loads of the existing radiator manufacturer's published data @DT50°C, tested to the same standard of EN442.
 - Data for the Diffusion fan convector Heater units could not be obtained as the units are obsolete.
 - Opening up floors would be required to survey the extent of pipe routing when replacing Existing radiators.
 - FCU's serving First Floor Meeting Room No R.1001, looks like they are beyond the expected economic life cycle and would be recommended for replacement.

EXISTING AND PROPOSED FCU SCHEDULE

310311 - GERMAN HISTORIC INSTITUTE

ENGINEER: YE

DATE: 05/09/2023

REV: P01



GERMAN HISTORIC INSTITUTE - Existing and Proposed VRF Schedule

Floor	RECEPTION	Area (m ²)	Rad Ref.	Existing FCU Manufacturer/Model	Estimated Nominal Heating output (Based on Mitsibushi FCU data) [W]	Estimated Nominal Cooling output (Based on Mitsibushi FCU data) [W]	Proposed FCU Manufacturer/Model	FCU Nominal Heating output [W]	FCU Nominal Cooling output [W]	Notes
FIRST	R.1001 - MEETING ROOM	66.42	FCU.1.01	Mitsubishi / PFFY-P32V-E	4000	3600	PFFY-P32VCM-E	4000	3600	All units are to be stripped out with all associated pipe works and wiring. All existing units are to be replaced with new proposed units.
FIRST	R.1001 - MEETING ROOM		FCU.1.02	Mitsubishi / PFFY-P32V-E	4000	3600	PFFY-P32VCM-E	4000	3600	
FIRST	R.1001 - MEETING ROOM		FCU.1.03	Mitsubishi / PFFY-P32V-E	4000	3600	PFFY-P32VCM-E	4000	3600	
FIRST	R.1001 - MEETING ROOM		FCU.1.04	Mitsubishi / PFFY-P32V-E	4000	3600	PFFY-P32VCM-E	4000	3600	
	Basement Light well		OU.01	Mitsubishi / PUMY-P125VMA			Mitsubishi / PUMY-P112YKM-R2			



The Multi-disciplinary Engineering Consultancy

Edinburgh | Glasgow | London | Manchester

Contact

Unit A2, Hatchers Yard

9 Tanner Street

London

SE1 3LE

enquiries@harleyhaddow.com