University of Manchester

Eddie Newcomb / Student Services – Heating Repairs/ Upgrade

Design and Access Statement (v001)

The proposed scheme has no impact on any of the existing access points to the building and therefore there are no changes to access.

The existing heating system within the Eddie Newcomb Building which extends to the southwest corner of the John Owens building is a LTHW radiator-based system. This is fed from a subterranean plant room within the rear quad which is of concrete construction and appears to have been built in the 1960's.

The original radiator system has been significantly updated and adapted previously with the majority of the original radiators having been replaced with steel panel and fin radiators. Only 17 of the original column style radiators remain.

The proposal involves the replacement of the modern style radiators with new radiators that are more thermally efficient. The original radiators are to be retained and repaired if necessary

Following our meeting with the planning and conservation officer we are looking to use a modern style column radiator of the type proposed on the following page.

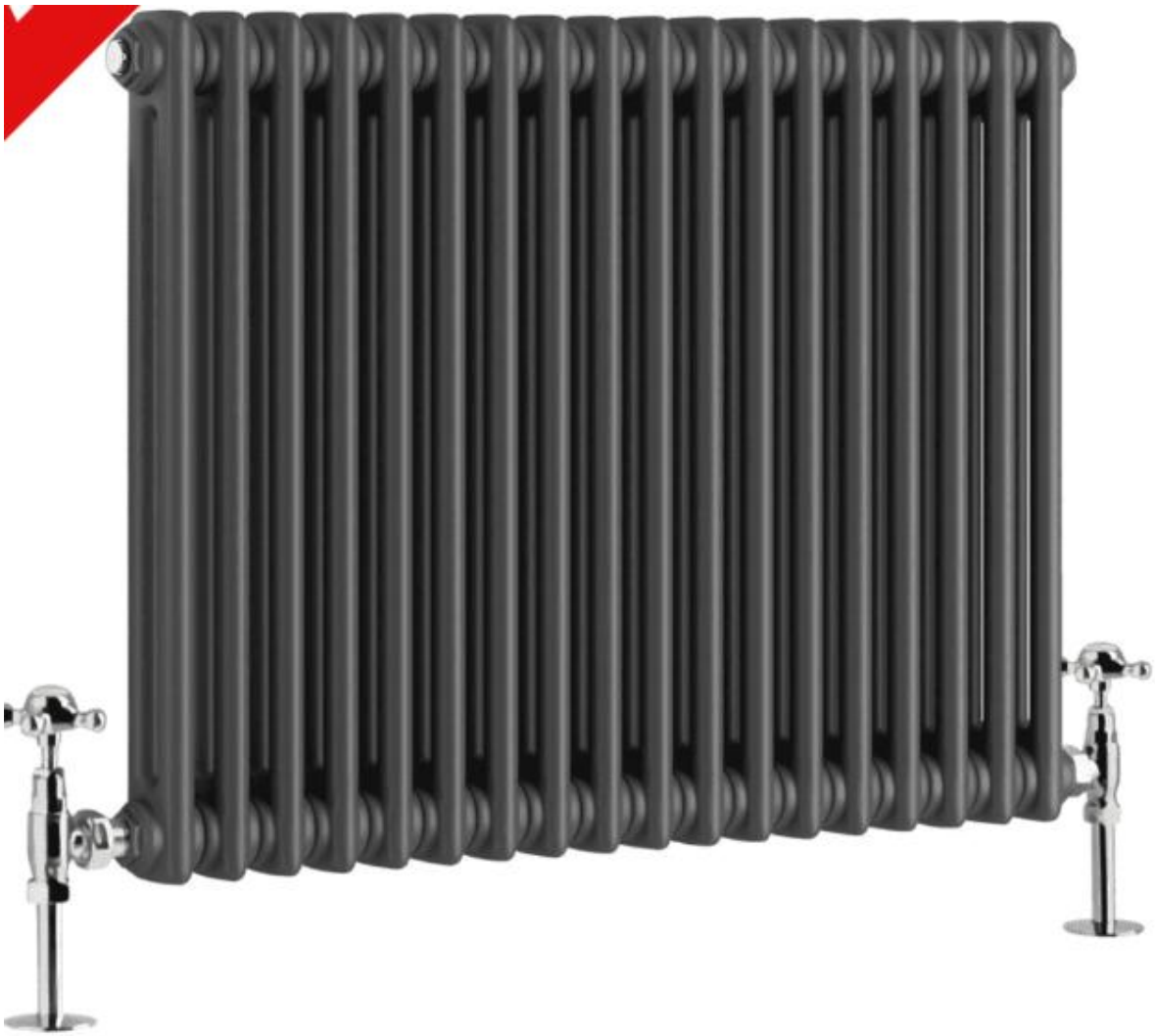
The proposal to use Destratification fans will be deferred until the efficiency of the new system can be confirmed, once in use.

Replacement radiators that are of architectural interest as seen in the Eddie Newcomb building – payment hall will be retained.

Any adaptations to joinery to accommodate the works and pipework to source the new radiators will be minimised and undertaken to the same principles to the previous listed building project undertaken within the Quad buildings. NB it is intended that all radiators will be replaced in the same positions as at present and therefore the level of disruption should be minimal.

Image of typical proposed replacement radiator:

Radiator King – Modern Column Radiator



Range	Radiator King
Style	Modern Column
Colour	White
Accessories Included	Wall Fixings, Wall Plugs, Blanking & Bleed Plug
Installation Type	Hot Water
Material	High Grade Low Carbon Mild Steel
Inlet Connection	1/2"
Maximum Water Pressure	10 Bar
Certification	CE, EN442
Guarantee	20 Years

Model	Type	Size	Panel	Bars	BTUs (T50 - T60)
Traditional Style	Horizontal	300x425mm	Double	9	751-949
Traditional Style	Horizontal	300x606mm	Double	13	1085-1372
Traditional Style	Horizontal	300x830mm	Double	18	1501-1897
Traditional Style	Horizontal	300x1010mm	Double	22	1836-2320
Traditional Style	Horizontal	300x1190mm	Double	26	2170-2740
Traditional Style	Horizontal	300x1460mm	Double	32	2672-3375
Traditional Style	Horizontal	300x425mm	Triple	9	952-1208
Traditional Style	Horizontal	300x606mm	Triple	13	1375-1747
Traditional Style	Horizontal	300x830mm	Triple	18	1904-2419
Traditional Style	Horizontal	300x1010mm	Triple	22	2327-2955
Traditional Style	Horizontal	300x1190mm	Triple	26	2750-3491
Traditional Style	Horizontal	300x1460mm	Triple	32	3385-4299
Traditional Style	Horizontal	600x425mm	Double	9	1402-1774
Traditional Style	Horizontal	600x606mm	Double	13	2027-2566
Traditional Style	Horizontal	600x830mm	Double	18	2808-3552
Traditional Style	Horizontal	600x1010mm	Double	22	3433-4340
Traditional Style	Horizontal	600x1190mm	Double	26	4057-5132
Traditional Style	Horizontal	600x1460mm	Double	32	4992-6316
Traditional Style	Horizontal	600x425mm	Triple	9	1795-2283
Traditional Style	Horizontal	600x606mm	Triple	13	2593-3300
Traditional Style	Horizontal	600x830mm	Triple	18	3593-4565
Traditional Style	Horizontal	600x1010mm	Triple	22	4391-5582
Traditional Style	Horizontal	600x1190mm	Triple	26	5190-6596
Traditional Style	Horizontal	600x1460mm	Triple	32	6388-8121