R32 Air Conditioning System from Mitsubishi Electric Installed at University College London

Air Conditioning

TIME FOR R32

One of University College London's (UCL) main buildings has been equipped with a new R32 air conditioning system from Mitsubishi Electric.

The Division of Biosciences is housed in the Rockefeller Building, a seven-storey building on University Street, close to Euston Square Station and home to the original University College Hospital Medical School, named after the American oil magnate John D. Rockefeller after support from the Rockefeller Foundation in the 1920s.

MITSUBISHI ELECTRIC

Case Study

University College London

A quick and efficient heating and cooling system was needed which met UCL's environmental requirements.

TIME FOR R32

The Division of Biosciences at UCL is one of the world's foremost centres for research and teaching in the biological sciences.

It boasts an outstanding international reputation and a community of over 500 staff and 300 PhD students engaged in cutting edge research and collaboration.

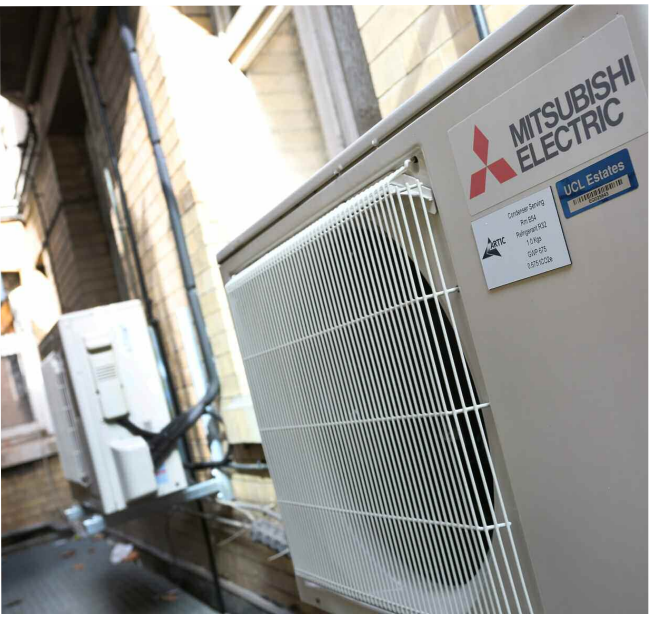
A quick and efficient heating and cooling system was needed which met UCL's environmental requirements.

Two **M Series MSZ-LN** air conditioning units were installed over a three-day period in July 2017 by Artic Building Services and are the first R32 systems within UCL's estate. The short installation period was crucial to ensure minimum disruption to the building's occupants whilst work was going on.

UCL opted for Mitsubishi Electric's M Series MSZ-LN due to the pivotal role R32 refrigerant will play in meeting future legislation and reducing the environmental impact of air conditioning, heat pumps and refrigeration, making it the ideal choice as the next generation refrigerant gas.

In March 2014, the European Parliament passed the 2014 EU F-Gas Regulation legislation with the primary aim of reducing F-Gas emissions by 79% between 2015 and 2030. This brings significant changes to end users, facilities managers, specifiers and installers alike.

The M Series MSZ-LN air conditioning range was Mitsubishi Electric's first product in its UK line-up to utilise R32 refrigerant. One of the main advantages of R32 is that it has a low Global Warming Potential (GWP) of 675, one third that of R410A. Additionally, R32 is already used in typical HVAC equipment as it makes up 50% of R410A found in many air conditioning systems.



Case Study

University College London

> “UCL made an excellent choice with Mitsubishi Electric’s R32 air conditioning units, which are stylish, sophisticated and highly energy efficient. We were able to install the wall mounted system in a timely and efficient manner, with minimal disruption to staff and students”

Lee Rumble
Artic Building Services

The M Series MSZ-LN includes a built-in Wi-Fi interface enabling full control and monitoring via the MELCloud App, and a sophisticated i-see Sensor in the unit automatically monitors room occupancy, position and body temperatures to deliver customised comfort.

Another feature that makes the M Series range suitable for UCL is its quiet operation, with noise levels as low as 19dBA, making it ideal for use in a quiet study environment.

Furthermore, R32 makes a green commitment as it has a zero-ozone depletion potential, which meets the global Montreal Protocol agreements and the EU Ozone depleting regulations. Additionally, R32 is classified as an A2L refrigerant.

Keith Kerridge, Building Services Manager, UCL Estates, said, **“The Rockefeller building required an extra air conditioning system on one of its floors and we were impressed with what Mitsubishi Electric’s system could offer. We wanted a system that would provide a comfortable working environment for our staff and students, as well as being environmentally friendly. The M Series MSZ-LN suits our needs perfectly.”**

Installation Summary

M series

Equipment:

- 1 x MSZ-LN35VGW (Natural White) wall mounted unit
- 1 x MUZ-LN35VG outdoor unit
- 1 x MSZ-LN50VGW (Natural White) wall mounted unit
- 1 x MUZ-LN50VG outdoor unit

MSZ-LN35/50VGW

MUZ-LN35VG

MUZ-LN50VG

MITSUBISHI ELECTRIC
Changes for the Better

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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric’s air-conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A(GWP:2088), R32(GWP:675), R407C (GWP:1774) or R134a (GWP:1430). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A(GWP:1975), R32(GWP: 550), R407C (GWP:1650) or R134a (GWP:1300).

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Effective as of November 2017