

## Mechanical and Electrical Services for a Mosque in Manchester



Watsons Building Services were appointed to design and install the mechanical and electrical services installations at a new Mosque in Manchester, Lancashire.

The Mosque building consists of three storeys with the ground and first floor prayer halls being the focal point of the building. Linked to the Mosque building is the community centre which is over three floors, the second floor overlooking the main prayer hall and the top floor housing the plantroom and teaching area, with Ladies and Gents ablution areas on the Ground and First floor .

The contract included VRF comfort air conditioning throughout, working in conjunction with mechanical heat recovery ventilation installations providing a fully conditioned area of worship. We also installed underfloor heating on the ground floors of the Mosque and community centre.

With the ablution area forming the main sanitary provision for the building, the domestic hot water load can have a high demand at peak times, most notably at Friday Prayers. Three high efficiency gas fired condensing boilers/ water heaters were therefore installed to cater for the demand.

Other services included public health, mechanical extract ventilation and a Building Management System.

The electrical services consisted of LED lighting and small power throughout the building. External lighting brought the building to life during night time hours.

Intruder alarm and fire alarm systems along with cabling infrastructure for data, CCTV and a PA system were also installed, all controlled in a central office on the ground floor.

### Project Details

Completed	2021
Sector	Religious
Location	Manchester
Type	Mechanical, Electrical

### Project Scope

- ▶ VRF air conditioning
- ▶ MHRV
- ▶ Gas fired condensing boilers
- ▶ Underfloor heating
- ▶ Domestic hot and cold water
- ▶ Sanitary and public health services
- ▶ Mechanical extract ventilation
- ▶ Building Management System
- ▶ Energy-efficient LED lighting
- ▶ External lighting
- ▶ Small power
- ▶ Structured cabling installation



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