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Project: Amenities Building , University of Nottingham

1 of 2



A new 3 storey, 8.5million Amenities Building within the University of Nottingham's Sutton Bonnington Campus. The building includes the following

- Student Bar Area
- Large 500 Seat Dining Hall
- Graduate Space
- Office Accommodation
- Faith Areas
- Full Catering and Kitchens

Services Provided

- Design
- Thermal Modelling
- Air-Source Heat Pumps (Heating&Cooling)
- Ventilation
- Hot , Cold & Category 5 Water Service
- Chilled Water Services
- Low Temperature Hot Water Heating
- Air Conditioning
- Above Ground Drainage & Sanitaryware



Mechanical & Plumbing Value	£800,000.00
Client	 The University of Nottingham <small>UNITED KINGDOM · CHINA · MALAYSIA</small>



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The large bar area and 500 seat dining hall are both heated, cooled and ventilated via central displacement ventilation systems. The dining hall and atriums have also been provided with natural ventilation penthouse louvres to allow the building to operate a mixed mode ventilation strategy; all controlled by the BMS system.

The office areas are heating by a traditional LPHW Radiator system and ventilated via a ducted VAV (Variable Air Volume) system utilizing local VAV boxes.

Three large simultaneous heating and cooling Air Source Heat Pumps provides the primary heating and cooling, to the building We have also provided a connection from the campus district heating system which serves the domestic hot water calorifiers and provides a back-up system for the buildings space heating demand



The kitchen areas are provided with wall mounted air conditioning units and the ventilation is provided via a heat recovery air handling unit and designated extract fan connected to the kitchen canopy.

The dirty extract from the WC facilities including disabled WC and disabled shower areas, muslin ablutions areas is extracted via high level ducted systems connected to externally mounted twin extract fans.

