

CASE STUDY:

JAMES COOK UNIVERSITY HOSPITAL

Middlesbrough



**GEOFFREY
ROBINSON**
SINCE 1971



MECHANICAL – Replacement of rooftop Air Handling Units

PROJECT OVERVIEW

Completed in 2017 and working directly for the client, the project to remove and replace 7 air handling units (AHUs) situated within a rooftop plant room. The competitively tender works was valued at over £645,000.

Being a maternity unit, continuity of services provision was a vital requirement; along with the need to liaise with the client and ensure the site remained safe, quiet and fully operational. The large L shaped plant room located on the roof of the single-story building presented logistical challenges due to restricted height access to site, and the fact that the heavy AHUs were over 6M long.

Geoffrey Robinson engineers designed and manufactured a temporary AHU, which enabled the sequential replacement of all old units, whilst maintaining temperature-controlled air to the maternity unit.

The project also included the replacement of 42 manual smoke/fire dampers with COLT automatic fire sensors, this, along with the AHU required substantial ductwork fabrication, cleaning and reconfiguration.

The installation of the new electrical distribution included a Schneider MCCB panel board, submain cabling, and UPS system. All to HTM NHS standards.

SERVICES PROVIDED

- M&E Principle Contractor
- Project Management and Programming
- Replacement of 7 AHUs and 42 COLT automatic fire dampers
- Schneider MCCB board, fire alarms, all M&E infrastructure, UPS
- Pipework, fabrication, valves and associated thermal insulation

FOR FURTHER INFORMATION CONTACT:

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CONSTRUCTION PHOTOGRAPHS



Temporary AHU

Designed, installed and connected by
Geoffrey Robinson engineers

South Tees Hospitals 
NHS Foundation Trust

