

# The Richard Stephens Partnership Limited

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ROYAL FREE HOSPITAL  
OPERATING THEATRE COOLING PLANT  
ROOF LOCATION FOR CHILLERS  
JOB NO: 1817

## DESIGN AND ACCESS STATEMENT Rev A

26<sup>th</sup> June 2020

### 1. Description of the proposal and plant summary

The work includes the extension of an existing plant support frame, and introduction of a covered enclosure to the roof of the podium building located at Royal Free Hospital. This is to provide cooling plant and equipment serving ventilation plant within the adjacent H West plant room providing clinical air change rates and critical space temperature control to 14no of the operating theatres. The proposed cooling will also serve an air handling unit providing critical ventilation to a COVID-19 intensive care / high dependency ward on the 3<sup>rd</sup> Floor of the hospital.

The project comprises the installation of 12no 90kW heat pump modules. These have been selected to ensure that the installation has a high degree of resilience due to the critical nature of the areas served. The existing cooling to this plant is approximately 40 years old and is not performing adequately for the demands of a modern operating environment.

The covered enclosure will house power and controls, pumps and pressurisation units associated with the heat pumps. The enclosure is included for secure and safe maintenance access, but also to reduce noise and visual impact.

Pipework will be routed immediately through the plantroom wall where it will be connected to existing pipework pre-installed in readiness for this future works.

### 2. Access proposals

The new plant area does not impact on public access around or within the hospital. Access to the plant area will be from the existing hospital and restricted for maintenance personnel.

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