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## **46 AVENUE ROAD, LONDON NW8**

### **Description of proposed mechanical services**

New heating, cooling, ventilation, water and electrical systems will be installed throughout. Heating will be via high efficiency boilers and comfort cooling via refrigerant based air source heat pumps.

Local extract ventilation will serve bathrooms and the kitchen. Fresh air to occupied rooms in the basement will be provided by a heat recovery ventilation unit.

Within the basement, a dedicated mechanical ventilation system will be installed to serve the pool area and ancillary spaces. This system will environmentally control the swimming pool area from a ducted dehumidification and ventilation unit.

Comfort cooling will be by a variable refrigerant flow (VRF) system of indoor fan coils connected by refrigerant pipes to the central condensing units. The units serving the upper floors of the house will be located on the roof and the unit serving the ground and basement levels, as well as the pool area, will be located at the rear of the new summer house.

The new summer house will have acoustic louvres for air circulation as indicated in the acoustic report prepared by NVP Ltd. The roof condensers do not require any additional acoustic treatment.

Fresh air inlet and exhaust ducts from the basement ventilation plant will include silencers and will terminate on the inside face of the acoustic louvres.

There will be no external mechanical equipment at ground level.