

Cooling Hierarchy Statement

Project Name

152A Agar Grove

Site Address

London NW1 9TY

Project Number

074

Applicant

Mr Rasim Begiri

Date

02/03/21

Revision

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Application reference
By **Dominic severs**

Lower Maisonette Flat A 152 Agar Grove London NW1 9TY

Installation of air conditioning units to front and rear garden and installation of canopy to entrance door (retrospective)

1. Reduce the amount of heat entering the building

- Development carried out under planning permission reference 2014/2428/P introduced overhanging eaves to provide shading when most at risk from solar heat gain.
- Insulation to external walls and roofs was then increased from original situation (no insulation)
- It is not possible to alter the orientation of the building
- Choice of high-albedo materials not feasible within conservation area requirements

2. Minimise internal heat generation

- A-rated efficiency boiler installed
- LED lighting introduced throughout

3. Manage the heat within the building

- High thermal-mass materials have been used internally within the limits of normal domestic use and expectations, including plaster finishes to solid masonry walls.
- Height of ceilings cannot be altered

4. Provide passive ventilation

- Passive ventilation is provided by traditional means of opening windows, however, because of the traffic fumes and noise on Agar Grove, cross ventilation is often undesirable and not practicable.
- The flat is a lower-ground floor and ground floor maisonette with no possibility of introducing passive stack ventilation.

5. Provide mechanical ventilation

- Mechanical ventilation is in place to meet current building regulations. In practice, this has been found to have little impact on cooling.

6. Provide active cooling systems

- Measures 1 to 5 above have not been effective in maintaining comfortably cool temperatures
- Heat generation in the property has increased with 'working from home' and this is likely to be permanent
- Air conditioning systems have been installed