

**PROVISION OF 2nr. OUTDOOR AIR CONDITIONING UNITS
ON REAR ROOF**

**ENERGY EFFICIENCY AND ADAPTATION
COOLING HIERARCHY STATEMENT**

In accordance with Planning policy CC2 (Adapting to climate change):

- Minimise internal heat generation through energy efficient design:

This application is for air conditioning only and there are no proposed internal or external alterations to the existing building. Energy efficiency improvements have been adopted in ongoing replacement using low energy LED light fittings. The proposed Fujitsu AOYG36KMTA units are compliant with the requirements of energy efficiency.

- Reduce the amount of heat entering a building in summer through orientation, shading, albedo, fenestration, insulation, green roofs and walls:

The building is a terraced building dating back to the turn of the previous century and no proposals for alterations form part of this application. Even if they were, the opportunity for change is very limited due to the constraints of its own historic construction. The shop fronts do however benefit from awnings which actively serve to reduce the amount of heat entering the building. The new air conditioning units may be used for both cooling and heating, thus negating the need for any other source of heating (gas or electric).

- Manage the heat within the building through exposed internal thermal mass and high ceilings:

This is neither a new build project nor a proposed alteration. The building is existing and, the pharmacy being at ground floor level with an existing building mass above it there are no opportunities to vary the ceiling constructions or heights.

- Passive Ventilation:

As stated above, this is an existing building with the provision of natural ventilation being limited to the pharmacy shopfront door with only minor supplemental ventilation via doors at the rear through inner areas.

- Mechanical Ventilation and Active Cooling:

Mechanical ventilation would not provide the amount of cooling required. Active Cooling is the only method of achieving the environmental conditions required within the pharmacy. The units will be located externally to the rear of the building, and will not in themselves contribute to the heat load within the building.