

Cooling Statement

94 Queens Crescent shop is located in the middle of Queens Crescent Market within Camden Council. The shop serves meat and groceries to the residents in the area. The shop in the summer suffers from overheating or increase in space temperature due to the heat discharge from fridges and meat equipment.

Due to the limited space available and as heating is dominant in the UK, its proposed to install a combined DX heating and cooling unit to heat the space in the winter and cool it in the summer. The installed DX system is an energy efficient and environmentally friendly.

We tried to apply passive strategy, however, due to the continuous door opening and heat discharge from fridges, and no cross ventilation can be applied, then the only available option is to apply mechanical heating and cooling. The installed cooling unit is just to temper the space temperature in the shop and not for full thermal comfort.