Air Conditioning of Ground Floor unit at 19 Spring Gardens, Manchester

Noise outputs from the Inverters

The proposal consists of 5 No. AC inverters in total. There are 4 No. Inverter heat pumps powering 4 No. internal AC cassette units. Individually, these inverters produce 54dB(A). There is also 1 No. VRF Inverter, powering a number of small, wall mounted, internal AC units. The VRF inverter unit has a low-speed design which suppresses noise by using a larger fan. Together with the use of double bell mouth construction for the casing, this reduces noise emissions. The noise output from the VRF Inverter is 56dB(A).
Technical advice on these AC inverters has stated that additional AC inverters working alongside produce an extra 1dB per unit.
In the application for the Ground floor unit, consisting of 5 AC inverters in total, this will produce a cumulative noise level of 60dB max.
Inverters work in such a way that they are never on constantly – they are thermostatically operated, and as such are sometimes off. All 5 No. units benefit from the most recent technology, enabling them to switch on and off silently.

Ambient Noise

The location of the proposed AC Inverters is a secluded corner above and adjacent to the Basement car park, not overlooked at all by any neighbouring properties, either residential or commercial. Ambient noise will consist of cars moving both in and out, and around the basement car park.

Operating hours

The 5 No. AC Inverters will be operational from 01/10/08. They will be operational only during working hours, which are typically 9am-7pm, 6 days a week.

