



COOL4HEAT SOLUTIONS LTD
AIR CONDITIONING & REFRIGERATION
SPECIALIST

24th August 2026

Dear Sir/Madam,

Re: Installation of Samsung Luzon S2 3.5kW Air Conditioning Unit (Model AR50F12C1BHXEU) for 57 Vantage Copse – REF: H/26/101583

I am writing in support of the proposed installation of a Samsung Luzon S2 3.5kW air conditioning system at the above property and to confirm that the installation is considered to fall within the scope of permitted development rights under the Town and Country Planning (General Permitted Development) (England) Order 2015 (as amended), subject to compliance with the relevant conditions.

Technical Specification

The proposed installation comprises a Samsung Luzon S2 split air conditioning system consisting of one internal wall-mounted unit and one external condenser unit:

Indoor Unit

Model: Samsung AR50F12C1BHNEU

- System capacity: 3.5 kW cooling
- Wall-mounted residential indoor unit
- Dimensions (W × H × D): 820 × 299 × 215 mm
- Weight: approximately 9.1 kg
- Sound pressure level: approximately 19 to 38 dB(A) depending on operating mode
- AI Auto Comfort and SmartThings compatibility
- Designed for domestic heating and cooling applications

Outdoor Unit

Model: Samsung AR50F12C1BHXEU

- Cooling capacity: 3.5 kW
- Heating capacity: 4.0 kW
- Dimensions (W × H × D): 710 × 540 × 220 mm
- Weight: approximately 24.8 kg
- Unit volume: approximately 0.084 m³
- Sound pressure level: approximately 46 dB(A)
- Sound power level: approximately 63 dB(A)
- Refrigerant: R32
- Power supply: 220-240V, 1 Phase, 50Hz
- Suitable for year-round residential climate control applications

Cool 4 Heat Solutions Ltd

225 Kathleen Road, Sholing, Southampton, SO19 8GZ

Office: 02381 112297 Shaun: 07923 105142 | Email: info@cool4heatsolutions.co.uk

www.cool4heatsolutions.co.uk

Registered Office: 225 Kathleen Road, Sholing, Southampton, SO19 8GZ. Registered in England and Wales. 15988199.

Relevant Permitted Development Provisions

The installation falls under Schedule 2, Part 14, Class G, which permits the installation, alteration, or replacement of an air source heat pump, including air-to-air heat pump systems that provide cooling and heating functions. Air-to-air systems were expressly brought within the permitted development framework through amendments that took effect on 29 May 2025.

The proposal has been designed to satisfy the principal Class G requirements, including:

- Compliance with the applicable MCS 020(a) sound assessment standard.

An outdoor unit volume well below the maximum permitted 1.5m³ threshold for dwellinghouses. The Samsung AR50F12C1BHXEU external unit dimensions are approximately 710mm × 540mm × 220mm, equating to a volume of approximately 0.084m³, considerably below the permitted limit.

The unit is not installed on a pitched roof and is positioned as ancillary equipment serving the dwelling.

Noise Assessment and Neighbouring Amenity

Particular care has been taken to ensure that the installation does not adversely affect neighbouring occupiers.

Manufacturer data for the Samsung Luzon S2 3.5kW model indicates an outdoor sound pressure level of approximately 46 dB(A) at the unit itself and an outdoor sound power level of approximately 63 dB(A).

However, permitted development compliance is not determined by the manufacturer's declared sound level alone. The relevant assessment is undertaken in accordance with MCS 020(a), which considers distance, screening, building orientation, and the location of nearby habitable-room windows. The installation location has been selected to maximise separation from neighbouring properties and minimise noise transmission.

The unit is a modern inverter-driven system designed for residential use, meaning it generally operates at reduced output for much of its operating cycle rather than continuously at maximum capacity. This substantially reduces the likelihood of noise nuisance and helps ensure that neighbouring residential amenity is preserved.

Spatial Considerations and Siting

The proposed outdoor unit occupies a relatively small footprint and is positioned in a discreet location adjacent to the dwelling. Its placement has been chosen to:

- Maintain adequate circulation and access around the property.
- Avoid obstruction of pathways, entrances, or functional outdoor space.
- Minimise visual impact when viewed from neighbouring properties.
- Preserve the character and appearance of the dwelling and surrounding area.

The external unit measures approximately 710mm wide, 540mm high, and 220mm deep, making it a modest addition to the property that remains clearly subordinate to the host building.

The proposed outdoor condenser unit is situated more than 1 metre from the neighbouring property boundary, providing a clear physical separation between the equipment and adjoining residential land. This separation has been intentionally incorporated into the design to minimise any potential impact relating to noise, vibration, maintenance access, and visual appearance. The location ensures that the unit remains ancillary to the dwelling, avoids encroachment on neighbouring amenity, and allows sound levels to dissipate naturally before reaching adjacent properties. Furthermore, the separation distance contributes to the overall compliance of the installation with the principles of permitted development and demonstrates that careful consideration has been given to the amenity of neighbouring occupiers.

Conclusion

Having regard to the requirements of Schedule 2, Part 14, Class G of the GPDO, the small physical scale of the equipment, its low-noise residential design, and its carefully considered siting, it is considered that the proposed Samsung Luzon S2 3.5kW installation constitutes permitted development and will not result in any unacceptable impact on neighbouring amenity in terms of noise, outlook, or spatial impact.