

From: Alan Crawford
Sent: 18 November 2024 17:44
To: Matthew Gunning; Josh Parker; David Mullaly
Subject: RE: 139 Cranley gardens HGY/2023/0850 | Update CTC-
Attachments: Data-Sheet-EcoAir-510-520.pdf

Good afternoon Matthew

Thank you for your ongoing cooperation regarding the proposed developments at 139 Cranley Gardens. In line with our commitment to sustainable development and energy efficiency, please find below detailed specifications for the air source heat pump units and the non-chlorine water treatment system for the new swimming pool facility, as advised by the technical consultant from Penguin Pools who we have been in discussions with to provide comprehensive responses to your questions.

<https://penguinpools.co.uk/residential/> .

Air Source Heat Pump Specifications:

The design incorporates two distinct types of air source heat pumps (ASHP), each serving a specific function within the pool's heating and ventilation system:

1. ASHP for Pool Water Heating:

- **Model:** CTC EcoAir 520M
- **Heating Capacity:** 4.9 – 22 kW
- **Dimensions:** 1245mm (W) x 1155mm (H) x 451mm (D)
- **Purpose:** This unit is designed to efficiently maintain the pool water at the desired temperature.

2. ASHP for Pool Space Heating and Ventilation:

- **Model:** CTC EcoAir 510M
- **Heating Capacity:** 2 – 10 kW
- **Dimensions:** 1245mm (W) x 1155mm (H) x 451mm (D)
- **Purpose:** This unit is responsible for heating the air and maintaining optimal humidity levels within the pool enclosure, ensuring a comfortable environment for users.

Both ASHP units will be positioned discreetly below the large window of the existing structure, set down by approximately 300mm and concealed by architectural screening and landscaping to minimise visual impact and preserve the aesthetic and amenity values of the neighbourhood.

Non-Chlorine Water Treatment System:

For the swimming pool water treatment, we have opted for an ozone and UV filtration system, which offers significant advantages over traditional chlorine-based systems:

- **Benefits:** This system enhances water purity and clarity, reduces the need for chemicals, and eliminates the odours typically associated with chlorine treatments, making it ideal for an environmentally sensitive approach.
<https://dgppools.co.uk/ozone-and-uv-sterilisation>

Conclusion:

These details underscore our dedication to implementing sustainable technologies and systems that not only meet regulatory standards but also respect and enhance the local environment and community well-being. We trust that the information provided addresses the requirements of the planning department and assists in the progression towards approval.

Should there be any further information or clarification needed, please do not hesitate to contact us.

Thank you for your attention to these details. We look forward to your response and hope for a positive resolution to our application.

Kind Regards

Alan Crawford
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From: Matthew Gunning
Sent: 04 November 2024 12:02

To: Alan Crawford; Josh Parker; David Mullaly
Subject: RE: 139 Cranley gardens HGY/2023/0850 | Update

Hi Alan,

Thank you for your e-mail below.

In respect of the ASHP system that would be installed to connect into the plant room are you able to indicate how big this unit would be, whether more than one unit would be needed? Within the context of a single-family dwelling such as this, I accept typically one unit subject to it being no bigger than 0.6m in cubic volume can be installed under '[permitted development](#)' subject to limitations in terms of noise level etc, however I am not sure in this case whether 1 x ASHP unit would be sufficient. Equally given the large glazing to the back of the detached building, I assume this will limit the ability to place an ASHP unit(s) here, as such meaning such equipment would need to be placed elsewhere, and if so where?



In respect of the “chemical storage room... provided with ventilation at 10 Air changes per hour” referred to in the D&A are you able to briefly expand on what this means in terms of external ventilation.

Regards

Matthew Gunning
Team Leader - Development Management

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Please note the above opinion represents informal officer observation only, offered without prejudice to all future formal Council decisions and accompanying procedures