

Grace Homes: Sustainable Living with Ecodan Heat Pumps

HEATING | CASE STUDY



Melton Mowbray



R32 Ecodan
units installed



Grace Homes

Grace Homes is setting a high benchmark for sustainable living by integrating Mitsubishi Electric's Ecodan air source heat pumps (ASHPs) at its Sysonby Lodge development in Melton Mowbray, Leicestershire. This thoughtfully designed development includes a courtyard of mews-style properties, detached and semi-detached homes and nine luxury residences in a renovated Grade II-listed lodge, along with a tenth residence in the former chauffeur's garage.

Each property is equipped with Ecodan heat pumps installed by Nigel Smith Plumbing & Mechanical Services Ltd, alongside other sustainable technologies such as photovoltaic (PV) solar panels and hybrid inverters offering home battery solutions. This approach has allowed Grace Homes to achieve the highest Energy Performance Certificate (EPC) A ratings, which align with the UK government's Future Homes Standards.

"We spent a lot of time researching the best sort of hardware that would work for us, and we felt that the Mitsubishi Electric's product, being a market leader, was really the way to go." Peter Hutorka, Construction Director, Grace Homes.

Mitsubishi Electric's collaboration with Grace Homes

Mitsubishi Electric has played a key role in Grace Homes' journey towards sustainability. The relationship spans over 15 years, beginning with the adoption of ASHP on sites without access to natural gas.

As part of the collaboration, Mitsubishi Electric provided:

- **Design Support:** Comprehensive heating and hot water system drawings for every property to ensure the seamless installation of Ecodan heat pumps.
- **Technical Support:** The Ecodan Technical Support Team offered consistent guidance, from troubleshooting to video consultations, guaranteeing smooth project execution.
- **Training:** Grace Homes ensured all installations were carried out by accredited installers who had undergone approved Mitsubishi Electric training.

At Sysonby Lodge, Ecodan heat pumps were installed in both new-build homes and a historically significant Grade II-listed lodge. While installations in new builds were straightforward, the renovation required innovative solutions, including a banked system with five units serving the conversions remotely. The adaptability and hands-on support from Mitsubishi Electric made it possible to integrate advanced heating solutions even in a challenging restoration situation.



Matt Smith, Managing Director of Nigel Smith Plumbing & Mechanical Services Ltd, highlighted the benefits of the 15 year relationship with Mitsubishi Electric and how working closely with the Ecodan technical support team helped to overcome the project's unique circumstances.

“It’s brilliant. They’re always at the end of the phone, and if you need to call them and have a video call with them, that’s always there as an option.”

Matt Smith, Project Heating Director, Nigel Smith Plumbing & Mechanical Services Ltd.



Drive towards sustainable living

The collaboration between Grace Homes and Mitsubishi Electric exemplifies the future of sustainable housing development. By adopting Ecodan heat pumps and other green technologies, Grace Homes is exceeding the government’s Future Homes Standards.

The Sysonby Lodge project showcases how design, technical support and innovative solutions can drive the UK towards a more sustainable future. Grace Homes is a leader in building homes that prioritise the environment, homeowner satisfaction and long-term energy efficiency.





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Option 1 - Homeowner

Option 2 - Air Conditioning, Ventilation, Commercial Heating & Modular Chiller Support

Option 3 - Ecodan Installer or Service Provider

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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R290 (GWP:3), R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).



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