

# Barratt Developments building aim for zero carbon through help of Ecodan



Salford,  
Manchester



Detached



4



3



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In early 2020, Barratt Developments announced its commitment to building zero carbon homes from 2030. The first phase in reaching this audacious target was through building a concept home for the future, the Zed House. Barratt appreciate how climate change is the greatest challenge facing society, affecting how we will live and work. Therefore, the Zed House project is in place to help create zero carbon and nature-friendly homes to minimise people's carbon emissions.

The Zed House goes significantly beyond the Government's Future Homes Standard, delivering a 125% reduction in carbon emissions.

To help meet Barratt Developments goal, they face the challenge of finding a suitable, efficient, and cost-effective alternative heating solution that minimises carbon emissions compared to traditional heating systems such as oil or LPG boilers.



The solution

The energy crisis is the biggest factor affecting home energy bills. Modern technologies such as Mitsubishi Electric’s Ecodan Air Source Heat Pump being a perfect solution for the challenge Barratt Development faced. An air source heat pump offers a modern alternative to traditional heating systems helping to keep heating bills low and delivering reliable heating all year round. A 5kW Ecodan was installed supplying heat to the home via infrared radiators and heated skirted boards.

Ecodan’s Air Source heat pump supplies the Zed House with the requirement of a comfortable indoor environment. Energy being the biggest crisis, buildings need to be more efficient and emit less carbon. Ecodan’s Air Source heat pumps will help to reduce carbon emissions, can help to reduce running costs and offer reliable and sustainable heating and hot water to the home all year round.

Being easy to install, the Ecodan unit met the requirements for the Zed House through the system being able to reduce CO2 emissions whilst also being able to reduce running costs, helping to meet renewable energy targets. The unit works by harvesting energy from the outside air and converting it into heating and hot water that can comfortably meet the hot water load of the home

The Zed House along with being an incredibly environmentally friendly home will now comfortably receive hot efficiently and low carbon emitting heat and hot water production for the future.

We at Mitsubishi Electric are proud to be part of this promotion to help create more low carbon homes.

Summary:

- Warm and efficient heating and hot water for this home of the future
- 5kW Ecodan Air Source heat pump and 150L standard cylinder installed
- Zed House reducing carbon emissions by 125%



Product Overview:



5kW



170L Standard



Radiators



Underfloor



PV



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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, 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).

