

# Eco-friendly developer builds warm, quiet, clean, green homes



Peebles, Scotland



Detached



4



3



2

Eskgrove Homes were set the challenge of building a home that is air tight, using a sustainable and effective way of heating the home.

With a strapline of warmer, quieter, cleaner, greener, Eskgrove Homes build quality properties and had to ensure that their new build would meet this requirement.

Managing Director, Colin Cumberland explains, “warmer was clearly not going to be a gas boiler, so we made sure we used a heat pump to heat the house”.

The company’s executive homes are manufactured off-site and can then be built within three days, matching an exacting standard of build with air tightness essential to allow the right level of performance for the houses.



The solution

Once the house was built ensuring an air tight and highly insulated property, an Ecodan 8.5kW air source heat pump with a hot water cylinder is matched up to underfloor heating. When the heating is up to the desired temperature almost nothing is required to maintain the level due to the air tightness.

All of the heat pumps, hot water cylinders and underfloor heating were supplied by renewable installer Eco-living which provides the designs for the underfloor heating, the whole house ventilation and heat recovery system.

Eco-living and Eskgrove share the same vision about low energy homes and the adoption of renewable energy systems with collaboratively looking to continually review the specification. This included changing the properties heating system to an easy to install Ecodan air source heat pump.

“I’m pleased to say that the feedback we’ve had from customers regarding the heat pumps is absolute silence”, Colin Cumberland explains.

One of the main things that astonish people about the Ecodan system is the reliability and how low the running costs are.

Summary:

- Ecodan Air Source heat pump installed to offer quiet renewable heating
- Heat pump provides hot water needed to keep home warm via underfloor heating
- Air tight home with ventilation ensures home maintains set temperature



Product Overview: 8.5kW 200L Slim Radiators

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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).