Heating | Case Study

MITSUBISHI ELECTRIC

Homeowner switches from oil to air source heat pump during kitchen renovation

Norfolk

Houses 3 1 1

The family renovated their kitchen with the aim of creating more space and to move away from using an oil-fired boiler.

Being off-grid, the couple did not have access to mains gas supplies; and they decided that traditional oil and gas fired boilers are damaging to the environment. This left the couple searching for an efficient, low carbon emitting system. Also, with rising oil prices they also wanted to find a cost-effective system.

After reviewing their options, the couple choose an Ecodan 5kW air source heat pump, after it had been highly recommended to them.

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The solution

The choice of an air source heat pump has given the family more kitchen cupboard space following the removal of the old oil boiler, as well as more space in the garden after the removal of the large oil tank.

The couple did not have apply for planning permission as the system falls under permitted development. Once deciding on a heat pump, the couple then only needed to contact an installer and organise a date to begin work.

As the house is fairly new, the couple did not have to update any radiators or pipework to work with the new system. Additionally, the house is well insulated having a high thermal performance, making it ideal for the Ecodan unit.

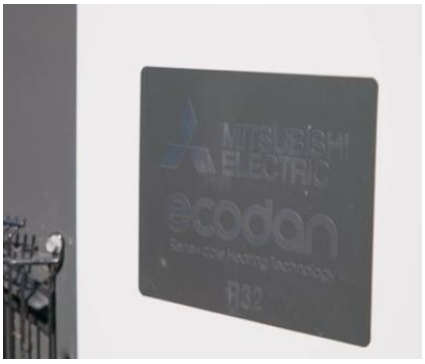
Switching to an Ecodan heat pump, Emma said: "It's a really horrid thought to have fill up an oil tank and have such a dirty energy source when you can have an air source heat pump which is so much cleaner."

And on living with an Ecodan, she said: "It's really good, we have no regrets at all. The installer was good, the energy is good."

Mitsubishi Electric calculated that over the system's lifetime it will save the equivalent carbon of 10 oil fired boilers.

Summary:

- **Ecodan unit installed to replace old oil-fired boiler**
- **Air source heat pump ideal solution for off-gas areas**
- **Over the Ecodan's lifetime it will save equivalent carbon of 10 oil boilers**



Product Overview: 5kW | 3rd Party | Radiators

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Changes for the Better

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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).

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