

Ecodan provides the perfect, energy efficient solution to tackle fuel poverty for housing tenants



Middlesbrough



Tenants at a housing association in Middlesbrough are not only feeling warm thanks to new heating in their homes, they're also be smiling after seeing their heating bill.

Fuel poverty was a concern for many tenants and the housing association, with some even choosing not to heat their homes and living in cold, damp conditions as a result of the high running costs of the previous systems.

The existing exhaust air systems at the site are expensive to run and did not deliver comfortable level of heat to the tenants, therefore, a more efficient heating system will be needed.

Fifteen homes at the site are now benefitting from energy efficient heating and reduced bills, thanks to the installation of Ecodan heat pumps from Mitsubishi Electric.



The solution

The housing association knew that any new heating provider needed to remove this financial decision and ensure that residents remain warm and cosy. The solution also had to be quiet to allow multiple units to be installed close together in residential area.

When investigating more sustainable heating solutions, a number of heat pumps were considered, however, Ecodan’s QUHZ 4kW air source heat pump and thermal store was selected. Further, the QUHZ Ecodan operated with world leading low noise output and meets permitted development requirements. This allows the units to be installed at the semi-detached homes and bungalows, which are in close proximity of one another, without the need for planning permissions. The pre plumbed Mitsubishi Electric Cylinder matched the Exhaust Air foot print which meant internally the tenants experienced little disruption.

The tenants are now benefitting from low-cost heating, continuous hot water production and reliable heat provision, the fabric of the properties will be kept damp free, reducing maintenance costs for the housing association.

One of the tenants spoke on the new system, saying **“Since the heat pump was installed in February 2019, we are thrilled to have seen our heating bills reduce by around 30%. We have taken advantage of being able to control our heating and hot water by setting timers for when we will be in the house, and not wasting energy. It is great to see the roll out of renewable energy solutions as everybody tries to do their bit to deliver a greener heating service”**.

Summary:

- 15 x 4kW QUHZ Air source heat pumps installed
- Significantly reduced running costs compared to traditional heating systems
- Thermal store allowing tenants to have easy access to hot water



Product Overview:



4kW



Thermal Store



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).

