Heating | Case Study

MITSUBISHI ELECTRIC

Warkworth Harbour Commissioners new offices will stay warm with Ecodan

Amble,
Northumberland

Warkworth Harbour Commissioners office has been upgraded to improve their facilities with harbour master Alan now having a great elevated view of the harbour from his office and balcony.

The commissioners' wanted the offices to be in line with their objectives to create a 'Green Beach' in the Little Shore area by using renewable energy sources. Therefore, the offices will take an alternative approach to the way that they heat their offices.

Wanting renewable heating meant the option of traditional heating systems such as gas of LPG boilers were no longer an option. This escorted to the challenge of finding an efficient and renewable system that will comfortably heat the offices. Warkworth commissioners offices are located on the harbour will therefore consideration for potential for harsh weather conditions meant the heating system specified will need to withstand this prospective issue.

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The Solution

After reviewing all the possible solutions to their heating challenge, Ecodan was the most obvious and ideal answer to remedy their concerns.

A Cascade of two 11.2kW Air Source heat pumps with coastal protection were installed to the property alongside PV panels to meet the heating and hot water requirements of the office. This provided efficiency and comfortability whilst not having to worry about the harsh coastal environment.

Ecodan's Air Source heat pumps work through harvesting energy from the outside air and converting this into heating to warm up the offices to their optimum temperature. In addition to efficient heating, the Ecodan systems are easy to install and can help reduce running costs.

Further to this, Ecodan's coastal models will give enhanced corrosion protection to key components of the unit to ensure that even in these aggressive areas, long life and efficient performance would be provided from the Ecodan unit to ensure optimum performance all year round.

Warkworth harbours new commissioners' office will now be able to keep colleagues warm and comfortable whilst lowering their running costs and minimising their carbon emissions, all thanks to Ecodan.

Summary:

- **Two 11.2kW Coastal Air Source heat pump to meet renewable objectives**
- **Warm and efficient heating and hot water throughout the offices**
- **Coastal protection to minimise environmental damages**

Product Overview: 11.2kW Coastal | 300L | Radiators | PV

MITSUBISHI ELECTRIC *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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