Glen Dimplex
HEATING & VENTILATION

The changing face of *compliance*

To meet energy performance targets and gain compliance under Part L, designers often need to add a renewable HVAC element into their schemes.

A commonly used solution is the pairing of a gas-based system with a renewable technology, such as photovoltaics (PV).

However, there are scenarios where these traditional systems are not viable, often due to regional requirements such as carbon targets or design limitations, and restrictions in infrastructure. Where this is the case, designers will need to look for an alternative solution which helps them to meet the energy needs of the dwelling.

Reaching compliance

There are multiple HVAC solutions available to help meet these requirements including hot water heat pumps.

Hot water heat pumps
A hot water heat pump is a low-carbon technology for heating hot water

Economic & efficient
They offer an economic and efficient solution towards gaining Part L compliance and do not need to be situated on the outside of the development

Reduce emissions
A significant amount of carbon emissions can be saved in hot water production with a hot water heat pump

Edel Hot Water Heat Pump

Gaining compliance with the help of Edel:

With a patented aluminium heat exchanger, Edel transfers a higher amount of energy compared to traditional copper wound heat exchangers

The system produces domestic hot water in a low carbon way, with a COP of up to 3.24

Edel can be complimented with direct acting panel heaters

Case study
Thermal & Acoustic Solutions

Utilising the Edel Hot Water Heat Pump

Thermal and Acoustic Solutions offer a range of services, including air permeability testing, SAP, SBEM, BREEAM reporting and building regulations guidance. They have begun to use the Edel Hot Water Heat Pump to aid with regional requirements.

When they cannot specify traditional systems, it is important to them that they offer a solution to their clients which is both practically and financially viable. Being based in Christchurch, they often have customers who develop in the area of Poole, whose Council require a 20% onsite renewable target for new developments.

They have found that combining Edel with electric panel heating, is an ideal solution for small dwellings and flats. This design helps them to achieve between 25-30% beyond the baseline target without the addition of any further renewables, exceeding Poole's planning requirement.

They have now successfully used this solution across multiple projects in flats of between 10 and 40 apartments.

When looking to meet different regional requirements for your developments, there are multiple HVAC solutions available to you, including hot water heat pumps.

To find out more about the Edel system and other low carbon HVAC solutions, call us on:

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or email

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