



# Cawsand Bay, Cornwall



## Efficient, eco-friendly heating for luxury Cornish beach homes

Nine luxury holiday homes on Cornwall's Rame Peninsula are geared up for year-round comfort with efficient and economical Daikin Altherma air source heat pumps to provide warmth when necessary and ample hot water whatever the weather.

Newly built on the site of a hotel of the same name, The Bay at Cawsand provides a mix of two, three and four bedroom apartments and townhouses. The multi-million-pound development also includes secure undercover parking for 15 cars and a 60-seat restaurant.

The Bay is at the edge of Cawsand's popular beach with views of Devon across Tamar estuary. A former fishing port, Cawsand is now a popular destination for swimming and other watersports.

The site was acquired more than a decade ago by Plymouth-based property company Parsonage Developments. It continued to operate the existing 12 bedroom hotel – with

licensed bar, manager's flat, takeaway restaurant and two self-contained holiday units – while planning the new development.

Above the new ground-floor parking area there are now five apartments with three bedrooms and one four-bedroomed penthouse. Two townhouses with three bedrooms and one with two bedrooms occupy the space above the restaurant. The units were built for sale to private owners – either as holiday lets or for private use.

Each of the homes has an 8kW Daikin Altherma low temperature heat pump capable of producing water at temperatures up to 55°C for underfloor heating systems, radiators (upper floors) and domestic hot water supplies.

Complementing the energy efficiency built into the new homes, the Daikin Altherma LT systems are designed to minimise heating costs – as well as carbon emissions and environmental impact.

### Year of installation

› 2019

### Project requirements

- ☒ LT Split
- ☐ LT Mono
- ☐ HT Split
- ☐ Hybrid
- ☐ Combustion
- ☐ Smart Controls
- ☐ Solar Thermal
- ☐ UFH
- ☐ Heat Pump Convector

### Installed systems

- › Low Temperature Split 8KW
- › Integrated indoor unit with DHW



Offering reliable operation with outside temperatures as low as -25°C, these systems quietly and efficiently extract energy from the atmosphere and convert it into useable heat. For each kilowatt of electricity used, a system produces 3-4kW of heat. Over a year, this is up to 300% efficiency.

Coils in the single fan outdoor units for each system at The Bay are treated with Blygold coating to protect against the potentially corrosive salt-laden coastal atmosphere. The units are mounted on retaining walls at the rear of the site – in a service passage behind the parking area and behind the restaurant.

Indoors, the developer opted for an integrated floor-standing Hydrobox and DHW cylinder of 180 or 260 litre capacity in each of the homes. This combination, more space-efficient than the alternative separate wall-hung Hydrobox and cylinder, contains system controls and all the hydraulic components for the heating and hot water systems.

Daikin also offers a smartphone app that allows owners to control their systems remotely.



Parsonage Developments project manager Ian Page says early reports from the first five sold apartments indicate satisfaction with the installation and performance of the Daikin Altherma systems.

The systems were installed by Plymouth-based Daikin Key Expert Partner Airflow Southwest, to design specifications from Daikin.

Airflow co-director Richard Rose says: "With technical help available from Daikin if we needed it, this was a straightforward, trouble-free installation. The only issue was a positioning change for the apartments' outdoor units to meet planning requirements."

Code	Description	No of units
ERLQ008CV3	8kW Daikin Altherma LT outdoor unit	9
EHVH08SU-CB6W	Integrated indoor unit with DHW cylinder	9



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