

Case Study: Castellar Singular Apartments (Seville) Installation of Q-ton to supply sanitary hot water to the Hotel Castellar Singular Apartments

Fact File:

- Project:** Castellar Singular Apartments (Sevilla)
Project Outline: Installation to provide domestic hot water to the hotel
Product: One MHI 30kw Q-ton system
One 2,000 litre storage tank



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The elegant Castellar Singular Apartments are ideally located less than 10 minutes walk from Seville Cathedral and La Giralda. All apartments are part of a chic refurbished building from the 19th century.

The Castellar Singular Apartments are carefully decorated and feature authentic high ceilings.

The latest and the most efficient technology on the market was desired for this project so the hotel opted for the Q-ton solution from MHI to produce the domestic hot water (DHW). One Q-ton unit was installed along with one hot water storage vessels of 2,000 litres to cope with the demand of 3,190 litres per day from the hotel.

The installation of both Q-ton and the water storage vessel was held outdoors on the hotel terrace. This system is suitable for indoors or outdoors installation, offering greater versatility and flexibility to the end user and installer.

The storage water temperature is 65 °C and the water is supplied at 60 °C around the

hotel.

The average COP of this installation is 4.38 generating an estimated 60% running cost savings compared to an oil boiler. The estimated CO₂ emissions reduction is 93%.

The payback period is expected to be 1.8 years (compared to an oil boiler), the date when the customer will start to benefit from the savings.

Mitsubishi Heavy Industries is a multinational Japanese company committed to conserving the environment with an avantgardist vision.



Special features of this installation

In addition to the installation of Q-ton, Mitsubishi Heavy Industries is also supplying space heating and cooling via their latest high performance generation VRF system, KXZ. The combined solution provides the best efficiency enabling low running cost and carbon reductions.

