

Case Study: Activa Club Sport Centre Santa María Port (Cádiz) Installation of Q-ton system for DHW in Activa Club Sport Centre

Information:

Project:	Activa Club Sport Centre, Bahía Mar Commercial Centre, Santa María Port (Cádiz)
Project outline:	Installation to provide domestic hot water to the changing room and showers
Product:	Two MHI 30kW Q-ton system One 4,000 litre storage tank installed indoors



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Installation of Q-ton system for DHW in Activa Club Sport Centre



The Activa Club Sport Centre is a place where three essential areas such as sport, health and relaxation come together, with the utmost professionalism and comfort.



Customers can benefit of 3,000 m² of facilities with sport equipment of latest technology, exercise room, a hydrotherapy pool and a healing thermal suite.



Due to the high demand for DHW from the gym and the spa centre featuring a hydrotherapy and cold water pools, home, essence and revitalising showers, Jacuzzis and Turkish baths, the demand for a highly efficient system with a quick return on investment was required. This was the main reason why the management chose the Q-ton solution from MHI.

The installation comprises two Q-ton units and an additional 4,000 litre tank connected to the 8,000 litre existing conventional water tank, to meet the sport centre's hot water demand of 13,500 litre per day.

Both Q-ton's and tanks were installed indoors.

The system can be installed both indoors or outdoors, offering greater flexibility to the end user and installer.

The water temperature is stored at 65°C and supplied at 60°C around the sport centre.

The average COP of this installation is 4.42 generating an estimated 80% running cost savings compared to a gas boiler. The estimated CO₂ emissions reduction is 94%.

The payback period is expected to be less than a year (compared to a gas boiler), the date at which 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

Particularities:

The Q-ton module has a blue-fin coating that protects the unit from corrosion and saline environment: a key factor for any installation near the seaside.

