



Case study St Peter's School York.

KaIGUARD lime scale prevention technology in hot water systems

Introduction

Founded in 627 AD, St Peter's School York (13-18), with its two junior schools St Olave's (8-13) and Clifton Pre-prep (3-8), has a long history of delivering top class education.

Each school has its own traditions but the fundamentals of excellent teaching and learning combined with discipline and traditional values are the bedrock of all three. Academic results put it amongst the top schools in the country. It is equally well known for its sport but also offers superb music, art and drama.

Water Supply

Yorkshire Water is the utility provider to this location and the calcium hardness in the mains water supply is 250ppm max.

This is classified as hard water and lime scale will certainly form on heat transfer surfaces unless effective scale prevention treatment is applied.

Application and System description



There are 2 Lochinvar Infinity HD50 heaters each with 63kW rating. These serve the Sports Hall changing rooms.

These are externally mounted at roof level and are constantly on, with heavy use during term time.



The system is mains fed, unvented hot water, feeding a 250 litre calorifier which holds the hot water for the Sports Hall demand.

The system was installed 3 years ago.





The lime scale prevention water treatment is supplied by a Sentinel Commercial KalGUARD system.

This electrolytic anode technology is noted in the recently issued Part L Building Services Compliance Guide.

The system comprises a treatment anode, a controller, a water meter and a filter.



The showers are served by the calorifier and are routinely disinfected as per L8. Reports from site maintenance confirm that little or no lime scale cleaning of the shower head is required.



St Peter's School is a prestigious customer with a strong environmental Corporate Responsibility culture and is managed by British Gas Business.

Mark Howard from British Gas Business is responsible for site support and customer service and says "We have been highly delighted with this scale prevention product. Since installation 3 years ago, the KalGUARD+ has performed very well and is virtually maintenance free"

Graham Fennell , St Peter's Estates Manager adds

"We have been very pleased with KalGUARD technology and its ability to keep our water heater system operating efficiently. York water is known to be very hard and lime scale prevention is a challenge which KalGUARD has helped the school overcome"

For further info or advice please call Alan Roberti 07841 051 785 or email Alan.Roberti@Sentinel-Solutions.net



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