Test site 4 the nursery in Durham

The situation

The location
A busy nursery near Durham. with no time for scaling problems

View from the outside of this much extended nursery

The problem

The site has been plagued by problems during it's short life due to the very high hardness levels (in-excess of 500ppm hardness). The existing Megaflo that was installed 5 years ago has scaled up to such an extent that it has been decided to remove it in favour of a Rinnai system protected by AQUABION®.

The set up
Supply pipe is 22mm.

There is a secondary return on the hot water system plumbed in 22mm pipe.

Water pressure is from the mains and is set at 3bar.

The water hardness is about 500 ppm, supplied by Durham council .

Inside the boiler room shows the Megaflo which even though it is only 5 years old can no longer function due to limescale!

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The Solution

An AQUABION® S20 was needed on the mains as well as an AQUABION® S20 on the secondary return, after the pump.

The units were installed during the summer holiday in 2011, by Durham County Council.

The boiler room now has more space because of the compact nature of the Rinnai water heat and the AQUABION® limescale solution.

The Result

The units were inspected by the council and AQUABION® in December. The nursery were delighted that they had endless hot water, with no problems what so ever.

Durham County Council now regularly orders AQUABION® for all their scale protection needs.

The testing procedure

After 2 months the hot water heaters would have stopped working, if AQUABION® was not effective. Prior to this the scale warning light would be displayed after 4 about weeks.