

Test site 2 McDonalds, Newbury.



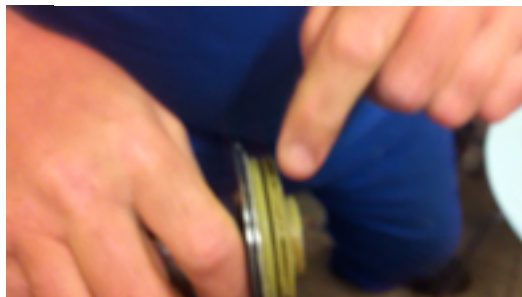
The situation

The location

A busy Mcdonalds store on the high street in Newbury



Outside view of the McDonalds



Limescale has destroyed this hot water pump.

The problem

The site has been plagued by limescaling problems during the first part of 2011. Even though other water treatment systems had been installed from the start, the boiler has had to be changed every 2 months in the first 6 months of 2011.

When James Ridout of Aquabion UK arrived 2 weeks after one of the new RINNAI hot water heaters had been installed, LC was flashing on the screen, indicating that the boiler was already running inefficiently.



Other water treatment systems did not stop the Rinnai warm water heater from scaling up

The set up

Supply pipe is 28mm supply pipe reduced to 22mm.

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

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

The water hardness was about 340 ppm which was supplied by Wessex water who recorded the hardness at 310ppm (17.36° dh)



The RINNAI was under constant repair



The Solution

AQUABION® H20 was installed on the mains as well as an AQUABION® S20 on the secondary return, after the pump. This was not only supposed to provide better protection than previous technologies but also better value for money

Ron a contractor from Metro ltd replaced the scaled up heat exchanger, and also installed the AQUABION®, on the 16/6/11



Ron installing the

The testing procedure

As this site is situated in a real hard water area, results will come in very short spaces of time (every two months). However Metro wanted to let the test run for at least a 4 month period before declaring it a success.

Inspections were carried out weekly to get different problems under control.

Final results were expected in October 2011 with a full inspection by RINNAI and AQUABION®.

Meanwhile a quick check of the display to see if the scale warning code is flashing, shows that after a period of 4 months the full flow is still guaranteed.



The AQUABION® now in place protecting the RINNAI hot water heater

The result

McDonalds are now ordering more AQUABION® and Rinnai boilers for their other franchises.