



MONARCH WATER

Scaleout Success Story – Food Service 2

Date of Original Report: 6th May 2013

Objective: To ascertain the effectiveness of Monarch Scaleout within a very busy Food Service environment. Protecting equipment that generated hot water and including steam.

Water Hardness: 320ppm

pH level: 6.82

Equipment to be protected: Complete site. Item inspected automatic coffee machine CMA Valina 3 group – see Pic 1

Evaluation period: 21st January 2013 to 3rd May 2013 – 14+ weeks

Application:

The coffee machine was previously protected by a de-alk resin based calcium treatment unit. Even with the de-alk based calcium treatment unit, it was experiencing significant hard water related problems.

Three calcium treatment units were removed from the supplies to the coffee machines and a Scaleout S15C was installed on the incoming water supply to protect the complete property incorporating 2no coffee machines, Marco boiler, dishwasher, Hoshizaki icemaker, 2 toilet blocks and 6 sinks – See Pic 2.

The Scaleout S15C was installed by Monarch Water Ltd. The installation of the Scaleout took approx. 1.5 hours (no flushing required).



Pic 1



Pic 2

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3rd April 2013.

Mr John Mikolajiszyn of Autobar (Service Technician with 25 years' experience on vending equipment) attended site to carry out an inspection of the CMA Valina 3 group to ascertain scaling levels in service.

The CMA Valina 3 group dispenses approx. 3350 vends per week. – see Pic 3.



Pic 3

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Pic 4

The element was removed to show a small amount of scale – Pic 4



Pic 5

Loose scale falling off element – see Pic 5

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Pic 6

This pressurised tank had a small amount of loose soft scale inside which was easily removed – Pic 6



Pic 7

Previously scaled up hand wash nozzle, now with clear jets. Deposits around jets was soft scale that was easily wiped away – see Pic 7

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Pic 8

Scale free tap – see Pic 8



Pic 9

Scale free nozzle – see Pic 9

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THE GOOD NEWS CONTINUES ...

On the 2nd May 2014 the store area manager forwarded pictures of the element as seen at the boiler inspection w/c 28th April. This was carried out by Autobar.

Below you will see a picture of the element as previously shown in Pics 4 and 5 after being protected by a Scaleout for a period of 68 weeks. You will note that the existing scale that accumulated from the previous de-alk filter system has been totally removed. The store manager is now rolling out the installation of Scaleouts in his area!



Exactly the same element as shown in Pics 4 & 5, now completely free of old scale!



This report from Autobar states;

‘Customer has taken numerous photographs of Boiler & Element. There is minimal scale build-up on walls of boiler & Element the same’.

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Results:

The coffee machine has operated continuously for a period of 68 weeks without interruption and with no need of service or attention.

The Scaleout is based on Filtersorb SP3 resin with an SPF10 (10 micron) post filter.

The Scaleout model was a S15C – 15mm mains supply.

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Conclusion:

The Monarch Scaleout S15C...

- Provided exceptional protection against future hard scale deposits from incoming water hardness of 320ppm.
- Provided a soft scale build up that was easily removed from the element.

The average water hardness in the UK is between 300-350ppm.

END:

With thanks to:

Mr John Mikolajiszyn
Autobar

Mr Ben Elarfa
Costa Coffee
Unit 7, West District Centre
Swindon
Wilts
SN5 7DL



And finally ...

John from Autobar was impressed! Suitably so to say that if the de-alk resin based system had remained; the chances of removing the element would have been slim. He commented how easily the scale fell off the element. Not a bad appraisal from someone with 25 years' experience!

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