



Pasteuriser Tank Cleaning – A case study

One of the key aims of JohnsonDiversey is: “the pursuit of innovation in every form likely to make the lives of our customers simpler and more profitable”.

With the completion of the new Pasteuriser water Cleaning in Place (CIP) system, (Automatic Open Plant Cleaning System) for Coors Brewers Ltd, Burton-on-Trent JohnsonDiversey have done just that.

The Innovative System

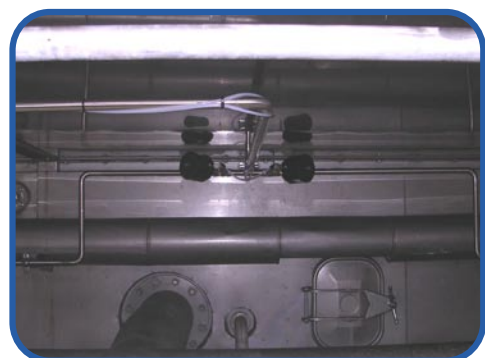
This new system comprises a CIP routine of less than 30 minutes, enabling the cleaning of areas which were difficult to access by manual methods with standard equipment, and which typically took 2 men up to 4 hours to achieve. Now at a simple touch of a button the tanks, once emptied, are rinsed for 3 minutes with clean water, followed by JohnsonDiversey Oxofeam at 4% which is applied to the inside of the pre and post pasteuriser water tanks and left for a contact time of 6 minutes. This is then rinsed for 6 minutes and left to drain for 7 minutes, before a final rinse to complete the process for a further 6 minutes. The process takes place automatically without chemical handling making it safe, efficient and economical, and ensuring a consistent cleaning result at optimum cost on every clean.

The equipment system, designed and built by the JohnsonDiversey Equipment Systems division, consists of an automatic hygiene station incorporating zone control and chemical dilution together with a man machine interface with visual information facility, ensuring the correct application times for rinse water and foam detergent for the pre-programmed cleaning cycle.



CIP Pipe work

The automatic hygiene station is provided with pressurised rinse water from the Bottling Hall Open Plant Cleaning System previously installed by JohnsonDiversey and concentrated chemical from a local 20 litre product drum. After the completion of the rinse water cycle the detergent is automatically diluted, then injected with compressed air to form a foam and distributed to the point of use. Application is split into separate zones on the Pre and post Pasteuriser water tanks which operate sequentially by a set of air-actuator valves.



Air-Actuator Valves

Application of both rinse water and foam detergent is by 360° rotary nozzles which ensure full and comprehensive coverage of the pasteuriser pre and post rinse tanks.





Key Benefits

Kevin Dale, Continuous Improvement Manager, Coors Brewers Ltd, Burton-on-Trent has found many key benefits of this innovative system, the main one being the saving of time. This results not only from a time saving on the cleaning of the water tanks themselves but also on the internal pasteuriser cleaning, due to the clean water circulating through the pasteuriser. “We have been able to reduce our total pasteuriser cleaning time by 50% a week” explains Kevin.

With twice weekly pasteuriser health reports from Nalco, a JohnsonDiversey alliance partner, “It all leads to a further extension of our total plant hygiene” reports Kevin.



CIP Pipe work

JohnsonDiversey Service

You can rely on JohnsonDiversey to deliver solutions to your business. “The whole process, from design to implementation was undertaken in an extremely professional manner” explains Kevin Dale “JohnsonDiversey not only consistently offer us competitive priced installations but the service we experience is second to none. The JohnsonDiversey Engineering Systems team is available anytime for installation and commissioning and I recognise the teamwork and commitment involved in successfully completing projects between JohnsonDiversey and Coors”.

If you would like to know more about this and other innovatively designed equipment systems to make your life easier and your processes more efficient call:

JohnsonDiversey UK Ltd. 0800 013 0789

