Crate washer – Nozzel protection
Carlsberg, Frederica Denmark

Background:

Existing coarse manual filter screens caused too many interruptions, blocked nozzles and insufficient cleanliness of the beer crates at Carlsberg. The crate washing machine at Carlsberg in Frederica is in operation 24 hours from Monday to Thursday. The screen filter was blocked one or two times per shift and as a result, the unfiltered fluid containing dirt, label sediment, metal and fibres entered the nozzles in the spray bars. Nozzles got blocked quite fast and crates were not thoroughly cleaned. Manual overhauls of the machine and the spray bars had to be performed every weekend.

Carlsberg decided to change the coarse filter screen and to invest in automatic self-cleaning BOLLFILTERs for nozzle protection.
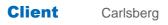
Description of the solution:

Before entering the crate washing machine, several crates are simultaneously lifted from a pallet onto two conveyer bands, then flipped upside down to empty large deposits. Hereafter the crates enter the pre-washing zone. Here, crates are sprayed to remove labels, dirt, metal and other sediments followed by the rinsing zone where final washing is performed.

Two automatic filters Type 6.18 with a total of 300 m³/h have been installed for two years and showed great results. They filtrate the full circulated flow in the crate washing machine in each of the two treatment zones and cleanse water with high fibrous content.

Advantages and added value for the customer:

- No more blockages in the nozzles
- Cleaner crates without any residual labels
- No down-town time in daily shifts
- Better overall condition of the crate washing machine
- Satisfied operators: BOLLFILTERs operate without supervision

Client   Carlsberg

System   1 x BOLLFILTER automatic Type 6.18 DN100 – 500 μm
                        1 x BOLLFILTER automatic Type 6.18 DN200 – 500 μm

Crates at Carlsberg

BOLLFILTER installed on crate washer

BOLLFILTER Automatic Type 6.18

BOLLFILTER Protection Systems

Filtration of caustic for crate washer