



Case Study

Divos X5: Comparative study

Overview

A 5 million hl capacity brewery processing ~700 hl per hour through Pentair membrane filtration units trialed Divos X5 versus their existing chemical over a 9 week period. The detailed assessment monitored the following parameters over the full 9 week term:

- The Trans Membrane Pressure (TMP)
 - As a measure of cleaning performance. A higher TMP shows a greater soil loading on the membrane and reduced membrane efficiency.
- The production time between required Cleaning in Place programs
 - As a measure of cleaning performance and process efficiency.

- The volume of chemical required
 - As a measure of cleaning performance and process efficiency.
- The volume of beer processed
 - As a measure of process efficiency.

Protocol

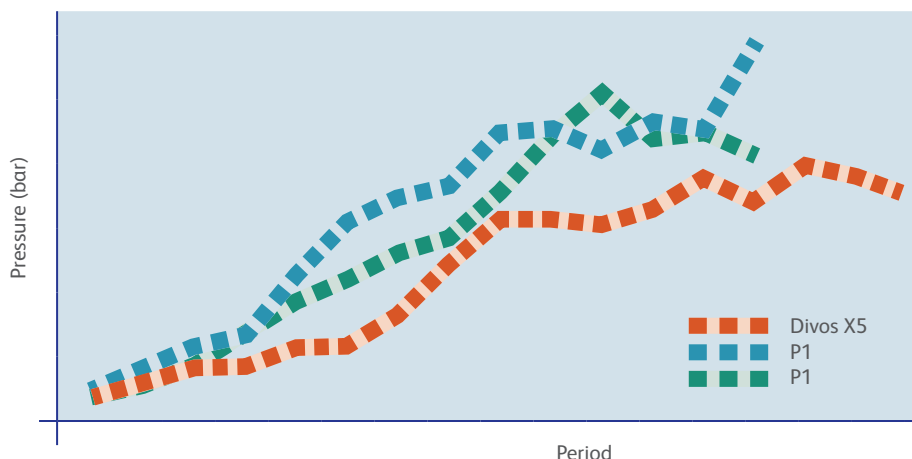
The incumbent product (P1) was tested for 3 weeks, followed by Diversey Divos X5 for 3 weeks before returning to P1 for a further 3 weeks.

Results

Trans Membrane Pressure

The initial Trans Membrane Pressure (TMP) obtained after CIP in each period was lower when using Divos X5, demonstrating improved cleaning efficiency.

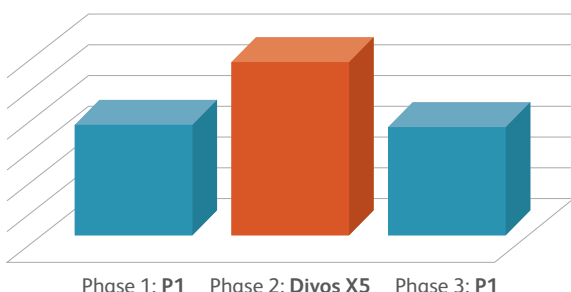
Average initial TMP versus Period



Results

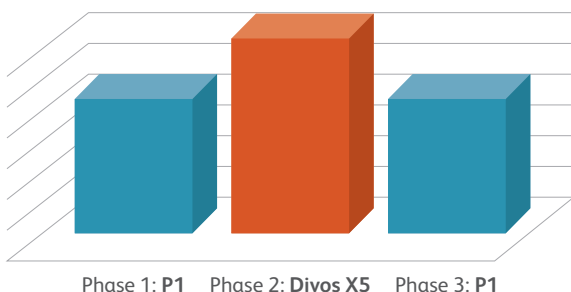
Production time between CIP

The cycle duration was 42% longer when using Divos X5 for CIP than P1.



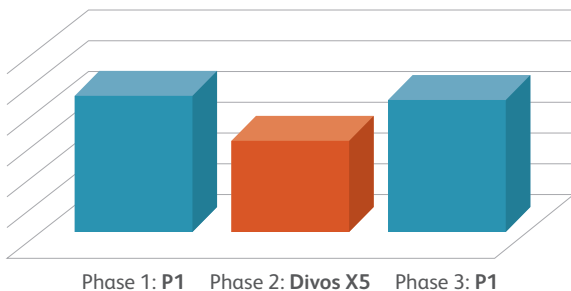
Volume of beer produced

The volume of beer produced during operations (per cycle and period) was 54% higher when using Divos X5 for CIP than P1.



Chemical volume

The volume of Divos X5 used per hl of beer during CIP over the trial period was lower than P1 by 37%



Conclusion

During the trial period implementing Diversey Divos X5 resulted in a significant improvement in the total cost of ownership of the filtration process. Reduced production downtime due to increased cycle time between CIP, enhanced cleaning efficiency and reduced chemical usage, resulting in increased asset utilisation and ultimately increased beer volume.



OPERATIONAL
EFFICIENCY

Additional benefits of Diversey Divos X5:

- Global product supply coverage ensuring timely delivery to your specific location
- Local supply closer to point of use supporting product shelf life and inventory management
- Full support package and application specialist support available
- A range of Pentair approved Acids
- One stop supplier for all Brewery hygiene needs

Discover how Diversey Divos X5 could improve the total cost of ownership of your Pentair Beer Membrane Filtration process.

Contact Diversey today to discuss a trial: foodbev@diversey.com