

# Customer Case Study

Cold stabilization module for Zagrebačka pivovara's new premium lager

## Customer

Zagrebačka pivovara was the first industrial brewery in Croatia. Today, it is the largest beer manufacturer in Croatia, holding 44% of the market in 2017. It is part of the Molson Coors brewery which is the world's seventh largest brewery.



## Specification

For Parker and Agidens the challenge at Zagrebačka pivovara was mainly the limited accessibility of the location where the module had to be installed. The site was only accessible via a tiny elevator (1.80m x 1.80m x 1.00m), which meant that the CSM had to be custom designed, disassembled and transported before it could be installed on site. In addition, a quick turnaround of 5 months needed to be met.

From a filtration perspective, it was important that the correct choice of filtration was made to cost effectively achieve microbial stability without impacting the quality and taste of the premium lager.

## Requirements

Zagrebačka pivovara was looking to expand its product range with a premium, non-pasteurized lager. The brewery was looking for a partner with proven expertise in the field of cold stabilisation and Parker Bioscience Filtration in partnership with Agidens, took up the challenge and implemented a Cold Stabilization Module (CSM) on the brewery site in Zagreb, Croatia.

## Parker Solution

In partnership with Parker, Agidens' engineering team provided a tailor-made CSM solution that was integrated into the existing production line. The CSM installation consists of three modules: a filtration skid, a distribution cluster and a CIP skid - for a total length of 6.75 metres. The modules were assembled in the workshop, disassembled for transport and rebuilt on site. The system filters an average of 250 hectolitres of beer per hour.

The CSM uses Parker's PREPOR NG and BEVPOR BR filters in a combination to achieve microbial stability whilst protecting the taste characteristics of the premium lager.

Parker's BEVPOR BR range of filters have been constructed with a unique Polyethersulphone (PES) membrane, offering a long service life and therefore a highly efficient and low cost of operation in sterile filtration of beer applications. Its PREPOR NG filters have been specifically developed to remove yeast and particulate such as filter aids and haze components. The superior level of retention ensures that a consistent quality of brew is delivered to bright beer storage whilst also offering a greater level of membrane filter protection during cold stabilization.

**Sterile filtration solutions provided by Parker are designed to allow brewers to significantly reduce the costs of microbial stabilization while protecting the beer's sensory appeal.**



[www.parker.com/bioscience](http://www.parker.com/bioscience)

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## Lee Pattison, Product Manager Food & Beverage at Parker Bioscience Filtration

"We're delighted that our partnership with Agidens Process Automation has been able to create an effective solution for Zagrebačka pivovara.

It is an example of how breweries are able to tap into Parker and Agidens' combined expertise in order to access innovative sterile filtration technology.

By using cold stabilization modules in their processes, breweries can benefit from the numerous advantages that sterile filtration has over pasteurization, such as reducing product losses and energy costs, while protecting taste from the effects of heat treatment and increasing shelf life."



## Tomislav Rorbach, Process Optimization Engineer Zagrebačka pivovara

"The cooperation with Agidens was flawless and they have fully met our expectations with their CSM module."



To find more information about Parker's Cold Stabilization Modules (CSM), visit [www.Parker.com/CSMCostSavings](http://www.Parker.com/CSMCostSavings)



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