

ENGINEERING
TOMORROW



Case Story | Danfoss Air Purger IPS

Danfoss **Intelligent Air Purger IPS** accelerates production in Tuzla Brewery

HIGHLIGHTS

- Smart Purging adapting to the actual demand
- Simple to use plug-and-play standalone unit
- Easy commissioning, reduced number of welds and installation time
- Controller-based with MODBUS included
- Optimal purging performance with maximum system safety
- Service-friendly, easy troubleshooting

Danfoss IPS – The Perfect Choice

In the Tuzla Brewery refrigeration system, the minimum evaporation temperature used to be -5°C. That created a unique opportunity for the Danfoss Air Purger, IPS, for maximizing system safety and reducing plant power consumption. The reduction was due to the effectiveness of IPS purging non-condensable gases from the refrigeration system. Danfoss IPS – Intelligent Purging System – is a self-contained IP 55 rated automated stand alone product, with up to 8 purge points. Compared to competitor's system integrated purger which normally follows a rigid sequential purge schedule, the Danfoss IPS controller will adapt to the operational on-site conditions and will purge on demand.

After easy commissioning of the Danfoss IPS, and over 5 working months, it manages to purge air (non-condensable gas) to a satisfying level.

The representative of end-user said that the Danfoss Air Purger is working effectively. In practice they also confirmed it when they manually checked for air. There was no air present in the application.

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Tuzla Brewery approves Danfoss IPS

Uros Milovancevic, PhD, Professor of the Faculty of Mechanical Engineering, University of Belgrade, and Vladimir Beljanski, Sales Engineer, Danfoss Serbia, visited Tuzla site.

Alongside the opportunity to see the reconstructed brewery and to get familiar with the design project and the P&ID, the visitors from the Faculty have been given the data regarding the purging solution's operation for the purpose of a student's master's thesis.

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Danfoss IPS installed at Tuzla Brewery, Tuzla, Bosnia and Herzegovina.

Tuzla Brewery

Pivara Tuzla (Tuzla Brewery) was founded in 1884 under the name "Erste Dampf Brauerei" by Tasing and Köhn as the First Steam Brewery in Dolnja Tuzla. Originally the brewery had a production capacity of 5,000 hl of annual production. In 1962, the cycle of continuous reconstruction began, so the annual production increased to a capacity of approx. 300,000 hl. The next reconstruction cycle for the production program of approx. 500 000 hl Brewery Tuzla starts in 1990. In late 2020, the company replaced its outdated vessel-based air purger with Danfoss IPS 8, which is now effectively purges of non-condensable gases from the plant refrigeration system.



To find out more about Danfoss IPS8, please contact your local Danfoss representative or go to ips.danfoss.com

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