



## *The HI-FOG solution for Tartu University Hospital*

### **Modular design**

The HI-FOG is a fully modular solution, meaning it can be delivered to the premises piece by piece and assembled on location, making it possible to install in the tight spaces of the hospital.

### **Low-diameter tubing**

The installation used low-diameter tubing that could accommodate the strict air conditioning and ventilation requirements of ceiling spaces, while making future expansions or system changes easier.

### **Automatic activation**

The HI-FOG sprinklers installed in the hospital activate automatically when the temperature in the glass bulbs rises beyond a predetermined temperature, providing fire protection for patients and staff.

## **Tartu University Hospital chooses the Marioff HI-FOG® solution for fire protection**

*Tartu University Hospital unites the medical clinics at the University of Tartu in Estonia. It's the largest healthcare provider in the country, offering high quality medical care across almost all specialties. In addition to medical care, the hospital serves as a research center and a leading training base for medical education.*

### **Challenge**

Tartu University Hospital needed a flexible and reliable fire protection system for its expansive medical complex. The system's extinguishing agent needed to be safe for patients and personnel in the event of a discharge – limiting water damage to valuable medical equipment and property was a significant concern.

Space in hospitals is limited, both on the floor and in the ceiling. Hospitals are subject to specific requirements for their air conditioning and ventilation systems, and the selected fire

protection system would need to fit alongside other medical equipment and complex hospital infrastructure. This required a solution with a small footprint and adaptable tubing.





## The HI-FOG Solution

Tartu University Hospital chose the HI-FOG fire protection system that is fully modular and can be assembled on-location, making it an excellent choice for the hospital, where space for installation was limited. In addition, HI-FOG systems use low-diameter tubing that made installation in the challenging space possible – and can also accommodate future layout changes.

The HI-FOG system uses small amounts of water to produce high-pressure water mist, which quickly suppresses fires with localized discharge. This minimizes

both fire and water damage, keeping downtime to a minimum. As the extinguishing agent is pure water, it is safe for both patients and staff – and the system doesn't require recharge after activation.

Extended beyond its initial scope, the system now includes over 3,300 sprinklers with 14 km of tubing in total, protecting most of the medical complex. The HI-FOG system was installed by a Marioff partner in Estonia: HF Tulekustutus AS.

**” Tartu University Hospital favored the water mist fire protection system due to its notably smaller space requirement for tubing, smaller risk of water damage and the flexibility of the system. Since 2015, when the system was first implemented in the hospital, it has proven its worth – and we continue to expand the system into new and reconstructed blocks.”**

*Peep Pitsner,  
Director, Technical Department*

# Marioff

**Marioff Corporation Oy**  
Äyritie 24  
01511 Vantaa, Finland  
+358 (0)10 6880 000  
marioff.com

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