References

Uponor participates in construction of Maarjamõisa Medical Campus

Uponor involvement

- Uponor products to be installed at the Campus include 10 km of Pe-Xa water supply pipes (16-110 mm), 8 km of Comfort Pipe Plus underfloor heating pipes (20 mm) and 3 km of Comfort Pipe Plus ice melting pipes (25 mm).

Uponor participates in construction of Maarjamõisa Medical Campus

2022 sees the completion of Maarjamõisa Medical Campus managed by Tartu University Hospital. The largest centre of its kind in Estonia, the Campus concentrates active medical care in one compact system. Uponor Estonia is participating as advisor, and as supplier of potable and heating water systems in the second construction phase currently under way.
Highlight of Estonian medical services
Toomas Kivastik, the project manager of Maarjamõisa Medical Campus, points out that Tartu University Hospital is the only university hospital in Estonia and the only one to cover the full range of medical services available in the country. Additionally, the hospital is a venue for pre-graduate medical training and residency, as well as being the centre where most of the medical research in Estonia is conducted.
The direct objective of the second construction phase of the Medical Campus is to complete and start using units J, K and L of the active medical care complex by the end of 2015. These units will house a state-of-the-art oncology centre. Two new generation linear accelerators will be purchased for radiation therapy, and capacity to fit up to four accelerators will be built. The second construction phase will also see the completion of an eye clinic, operating theatres, an intensive care unit for the cardiac surgery department and internal medicine department. Building requirements for all of these medical care units are extremely strict and technically complicated.

Improving the quality of medical assistance

According to Toomas Kivastik, the entire Estonian population will benefit from the completion of the Campus. As a medical institution of the highest order, it will welcome patients from across the country and significantly improve the quality and speed of medical care in Estonia.
Kivastik adds that the wall heating used in campus buildings will ensure that patients are treated in comfortable rooms with very clean air. Due to the paramount importance of clean water, specialised solutions ensure that medical personnel have access to it at all times. In addition to other requirements, particular attention has been paid to environmental protection and sustainability throughout both planning and construction phases of the complex.

Project Facts:

Location	Completion
Tartu, Estonia	2015
Building Type	Product systems
Multifamily homes	Radiant Heating & Cooling, PEX Pipe Systems
Address	Project Type
L. Puusepa 1a	New building

Partners

Partners receive expert support
Joonas Vaabel from the engineering company VP Projekt emphasises that the pipes used for the water supply systems in the Medical Campus and the material of these pipes must meet all health protection requirements. He adds, ‘‘Compared to a regular office or public building, there are many special water supply systems on the Medical Campus and water is treated on site (softened water, reverse osmosis water, water for dialysis machines, cooling water for linear accelerators). The height of the building means that several groups of pumps must be used.’’

Uponor’s water supply systems were selected for their flexibility and on-site availability as this ensures a smooth construction process.

Andrus Saarik from the installation company RTE Torutööd highlights Uponor’s expertise and its role in technical support, ‘‘There are many different and unique situations in construction, and cooperation is very important in order to resolve these. Uponor’s support in the construction of the Medical Campus has been second to none. I look forward to our continuing successful partnership. The solutions have been perfect and we will be choosing them again. At the moment, I don’t see an alternative to Uponor on the market in terms of quality.’’

According to Saarik, Uponor Estonia is an excellent partner, ‘‘Our cooperation has been long-term; it has been going for over 15 years. Solutions and development have both been significant. In addition, the quality of their products coupled with continuous training have ensured high quality installation.’’

Uponor as provider of the best water and heating solutions
The task entrusted to Uponor Estonia was to provide the medical campus with the best solution for water pipelines. The company's unit manager Aivar Sigur says that this is one of the most interesting and important projects for Uponor Estonia, both in terms of the object and the pipe solutions.

It is the largest construction in Estonia to install the Pe-Xa water supply system. Other Uponor products used in Campus construction are the Comfort Pipe Plus underfloor heating pipeline (20 mm) and ice melting pipes (25 mm), as well as large diameter Pe-Xa pipes and the Quick & Easy connection system.

Uponor Estonia has served as a partner to this construction project during several stages: first the company cooperated with the representatives of the owners and engineers, now it is advisor to the installers until the completion of works.