

Uponor

Watch out, take care

**Build on
Uponor Hygiene Logic**



330,000 reported cases of water-related diseases¹



One of the most dangerous water-related disease, Legionnaires' Disease:

- Severe bacteria infection caused by contaminated water
- Undiagnosed and underreported by many professionals²
- 10–15 % fatality rate of infected patients²

26,100 deaths due to car accidents in Europe³



¹ Water Environmental Treatment Ltd.

² European Center for Disease Prevention and Control

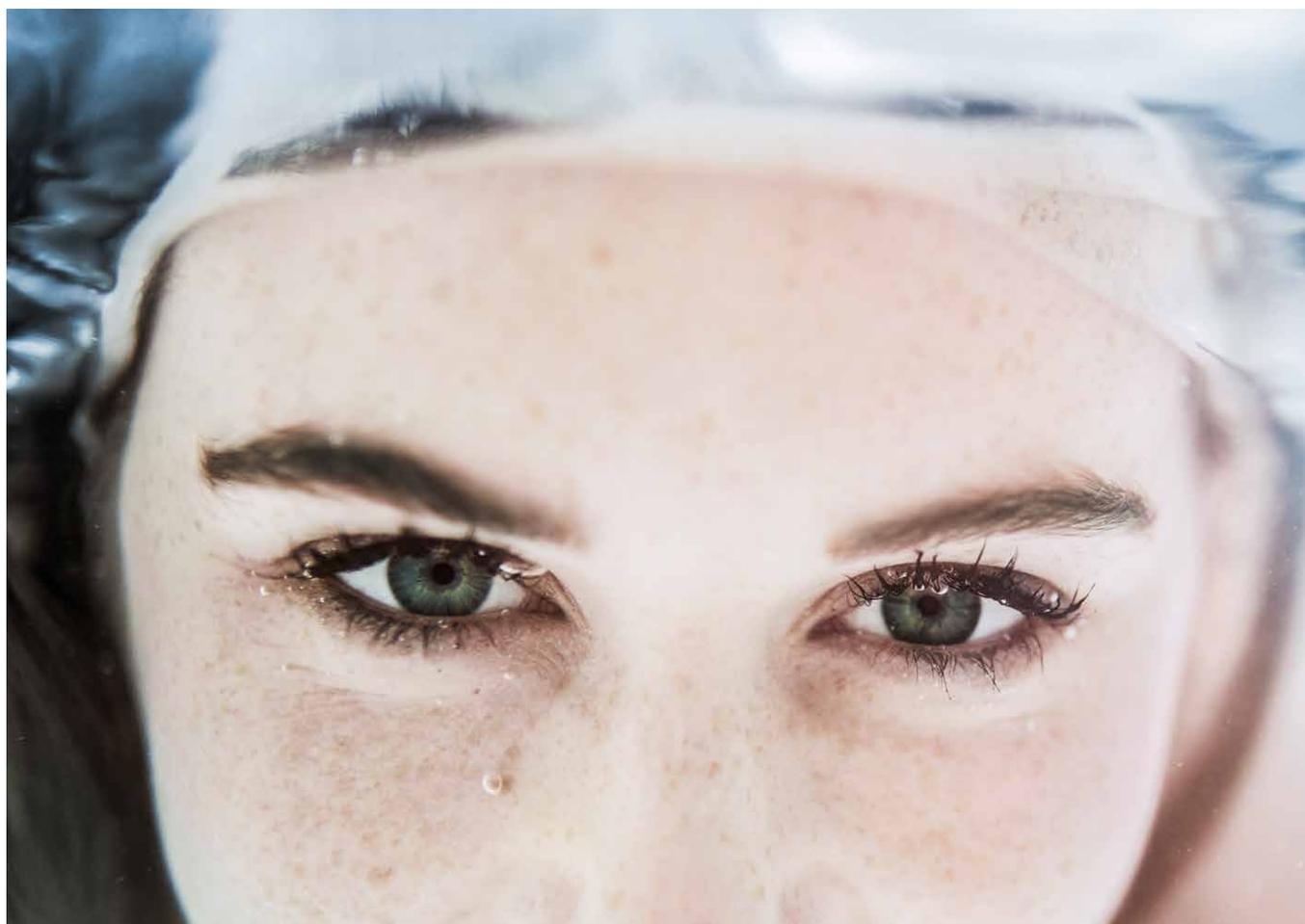
³ European Commission – Directorate General for Mobility and Transport. EU road fatalities (February 2016)

Let's open our eyes to the importance of hygienic drinking water

It is natural for us to protect ourselves from the dangers of everyday life. But there is a danger that is strongly underestimated in Europe, because it cannot be seen with the naked eye: Legionella bacteria in drinking water systems. They are the reason why thousands of people in Europe suffer from a severe lung infection known as Legionnaires' Disease, with a fatality rate of 10 to 15%. In total, there had been 330,000 water-related cases of illness (in 2015).

It is time that we opened our eyes and took on the responsibility of making drinking water hygiene important in Europe.

Uponor, as one of the world's leading providers of drinking water solutions, has dedicated itself to hygiene. With our knowledge, service-support and products, we help everyone involved to fulfil their responsibilities. With one great common goal – to protect people's lives.





Uponor Hygiene Logic for all building types:

- Hospitals
- Hotels
- Care homes and nursing homes
- Office buildings
- Multifamily buildings
- Schools and sport facilities
- Industrial buildings (shower facilities)
- Holiday rentals

Watch out: The core principles of prevention

The most important point in drinking water hygiene is prevention. So Legionella doesn't stand a chance from the start, there are three simple rules to consider:

1. Water must flow!
2. Keep the right water temperature!
3. Do not store hot water!



Water must flow!

Do not store hot water!

Take care: Made easy with Uponor Hygiene Logic

The best solution for preventing Legionella is logical: Uponor offers you easy-to-install water systems and hygienic products for all building types to cover all these areas.

1. Uponor loop installations and automatically flushing units help to keep the water flowing and avoid stagnation at all times.

2. Uponor pipe technology and design methods help to keep the water temperature below 25 °C and avoid warm-up in the cold water delivery pipe.

3. No need for hot water tank systems: With Uponor's heat interface units, drinking water is heated up on demand.



**Keep the right
water temperature!**

Plan, install and monitor in a logical way –

1. Rely on Uponor support from the start

With Uponor, you create the best possible conditions for long-lasting drinking water hygiene. As the planner, installer or facility responsible, you will receive competent support – from the planning phase through installation to monitoring and maintenance.

In the early stage of a project, we provide you with detailed knowledge about fulfilling the legal standards for drinking water, offer you design service support for HSE and BIM, and invite you to training sessions about clean water systems at the Uponor Academy.

2. Loop installations for a guaranteed water flow

By selecting the right type of installation, you can inhibit the risk of drinking water contamination from the very beginning. Loop installation is particularly recommended for this. It provides you with more than just a more compact and consistent drinking water system with lower pressure loss and optimal comfort. It also includes a mechanism that enables constant water flow in a loop unit whenever a withdrawal on the loop is being used. Our reliable installation systems are ideal for this method and guarantee a high standard of water hygiene and efficiency.



Planning



Installation



Monitoring

with the complete Uponor solution

3. Monitoring and maintenance for lasting drinking water safety

To guarantee a hygienically flawless drinking water system according to EN 806-5, the water needs to be exchanged every seventh day. Uponor automatic flushing and monitoring solutions – as part of the Uponor Hygiene Logic – are the easiest way to fulfil your responsibility over the long term.

As a building manager, you particularly profit from the protocol function: data on the flushing process are recorded non-stop and logged, and they can be accessed at any time via a central online portal. Additionally, you profit from constant checks on the flushing system and the Uponor maintenance service.



Products that stand up to the highest hygiene demands ...



Uponor Uni Pipe PLUS

Unique worldwide, the multilayer composite-pipe system from Uponor is ideal for drinking water installations. The pipe is produced under the strictest hygienic conditions and is hygienically sealed off. Thanks to its flexibility and stability, Uni Pipe PLUS is perfectly suitable for loop installations.

- Up to 40% narrower bending radius compared to conventional multilayer pipes
- 0% readjustment – pipe stays perfectly in shape after bending
- Up to 15% less fittings, due to better bendability
- 100% backwards compatibility with Uponor leading multilayer pipes and press fittings

Uponor Smatrix Aqua PLUS

Uponor Smatrix Aqua PLUS is an automatic hygienic flushing system which constantly monitors and regulates the entire drinking water installation in a building, and which can even be retrofitted in older buildings.

- Assured compliance with hygiene regulations and legal standards
- Seamless monitoring and documentation of the entire drinking water installation
- Immediate notification of abnormalities via e-mail
- No additional software or integration into building automation systems necessary
- Fast and easy installation and smooth operation in every phase

... constantly monitor drinking water.



Uponor Aqua Port & Combi Port

Fully customised heat interface units from Uponor allow you to heat up your drinking water efficiently using your central heating system. No drinking water storage tank and no domestic hot water distribution network is required. The heat exchanger installed in the unit rapidly heats up the cold drinking water at precisely the moment when the water tap is opened.

Uponor riser installation

To keep the cold water temperature below 25 °C all the time, Uponor riser installations ensure that the heating riser won't warm up the cold domestic water riser, thus avoiding Legionella growth and consequently undesired diseases. We recommend installing a mineral wool heat barrier between the cold and hot water risers as a professional riser installation method.

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