

A photograph of an industrial facility and modern buildings at dusk. The sky is a mix of purple, blue, and orange. In the foreground, a body of water reflects the lights from the buildings and the sky. The industrial facility on the left has several tall chimneys, some with red lights at the top. The buildings on the right are multi-story and brightly lit from within, with some construction cranes visible. The overall scene is a blend of industrial and urban architecture.

# INDUSTRY AND BUILDINGS

FIREFIGHTING WITH HIGH-PRESSURE WATER MIST

AQUASYS



# AQUASYS TECHNOLOGY IS HIDING IN PLAIN SIGHT

## In industry

Our firefighting solutions protect your production and infrastructure. Thanks to three-dimensional dispersion, the extremely fine water mist ensures highly effective and rapid firefighting. We use nothing but water, and our systems are implemented entirely in stainless steel – from the pump to the

nozzle. This ensures a long service life of the firefighting system and prevents contamination of the protected area. At the same time, the risk of damaging expensive machinery and equipment is reduced or the need for tanks to collect the firefighting water.

## In buildings

Depending on requirements, our systems can be virtually invisible, blending into the building structure, or are used effectively to enhance the aesthetic of the interior architecture. For retrofitted installations, in particular, the compact pipeline dimensions of 12 to 42 mm enable straightforward and flexible integration on site, considerably reducing the construction work required.

The extremely fine atomisation and the intensive cooling effect generated as a result mean that people and equipment are capably protected and spreading of the fire is effectively prevented. The low water volume required considerably reduces the risk of water damage in historical buildings as well as in hospitals or libraries, for example.

# FIREFIGHTING IS RESPONSIBILITY

## WATER MIST IS OUR PASSION

We have been carrying out pioneering work in the development of high-pressure water mist systems for buildings, tunnels, rail vehicles and industry since 1993. Our high-pressure water mist systems offer effective firefighting, are harmless to human beings and are an environmentally responsible alternative for people and environment.

We are the right partner for anyone who wants to protect people, buildings and infrastructure in the event of fire. We are part of the HAINZL group and, as an innovative technology company, we are always on the lookout for the best solution for your request.



# OUR TECHNOLOGY



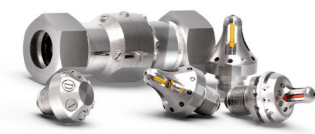
## Power packs

Complete supply units with tank and control cabinet or compact individual assemblies for confined spaces. A variety of drive concepts including electric motor, diesel motor or use of compressed nitrogen allows you to customize your supply units.



## Valve units

Alarm valve units and section valves are available as compact seat valves or maintenance friendly motor-driven ball valves. Especially this design allows easy to execute regular function tests.



## High-pressure water mist nozzles

Our extensive range of nozzles made from high-quality stainless steel can be used for an incredibly wide range of fire loads without problems. Reliable firefighting is ensured at installation heights of 0.35 m up to 18 m.



## Accessories

The innovative and water-saving AQUASYS Water Mist Gun is an perfect alternative to conventional low-pressure systems for manual firefighting. Usually integrated into a wall hydrant, it can also be used in a wide range of applications in buildings and industry.

# REFERENCES



## Maruti Suzuki test stands, Gurgaon, India

### Challenge:

- // Significantly increased risk of fire
- // Production-relevant test stands using high-quality instrumentation

### Solution:

- // Outstanding cooling effect immediately reduces temperatures
- // Heat shielding to prevent damage to infrastructure and instruments
- // Fine water mist reduces smoke propagation



## Children's hospital, Zürich, Switzerland

### Challenge:

- // Avoiding contamination even in the event of unintended actuation
- // Long-lasting system avoids the need for replacements or repairs

### Solution:

- // Use of pure or ultra-pure (e.g. fully demineralised) water
- // Pumps, valves, pipelines and nozzles made entirely from high-quality stainless steel (V4A)



## Maakri Tower, Tallinn, Estonia

### Challenge:

- // Optimising the usable space in the building
- // Making overall savings on constructions costs

### Solution:

- // Use of narrow pipelines facilitates optimisation of room heights and main conduit routes
- // Additional usable space due to elimination of booster pumps
- // No need for sprinkler reservoir due to the on-site fabrication of a tank including a refilling ensuring the full operation time

# WE ARE THE RIGHT PARTNER

## FOR YOUR INNOVATIVE FIREFIGHTING REQUIREMENTS



### PARTNERSHIP

In our daily work with customers, partners and employees, we attach great importance to long-term partnerships built on reliability, appreciation and a solution-oriented action.

### OUR SYSTEM

Our firefighting system convinces ourselves as well as our customers in many applications: it is space-saving, long-lasting and environmentally friendly.

### TECHNOLOGY AND DEVELOPMENT

Our developers are delighted to be challenged with new demands and will find the right solution for your requirements.

Josef Hainzl  
Managing Director, AQUASYS Technik GmbH

Based on our years of expertise in development, design, installation and service, we deliver high quality firefighting systems for

**// INDUSTRY AND BUILDINGS**

// ROAD AND RAIL TUNNELS

// RAIL VEHICLES