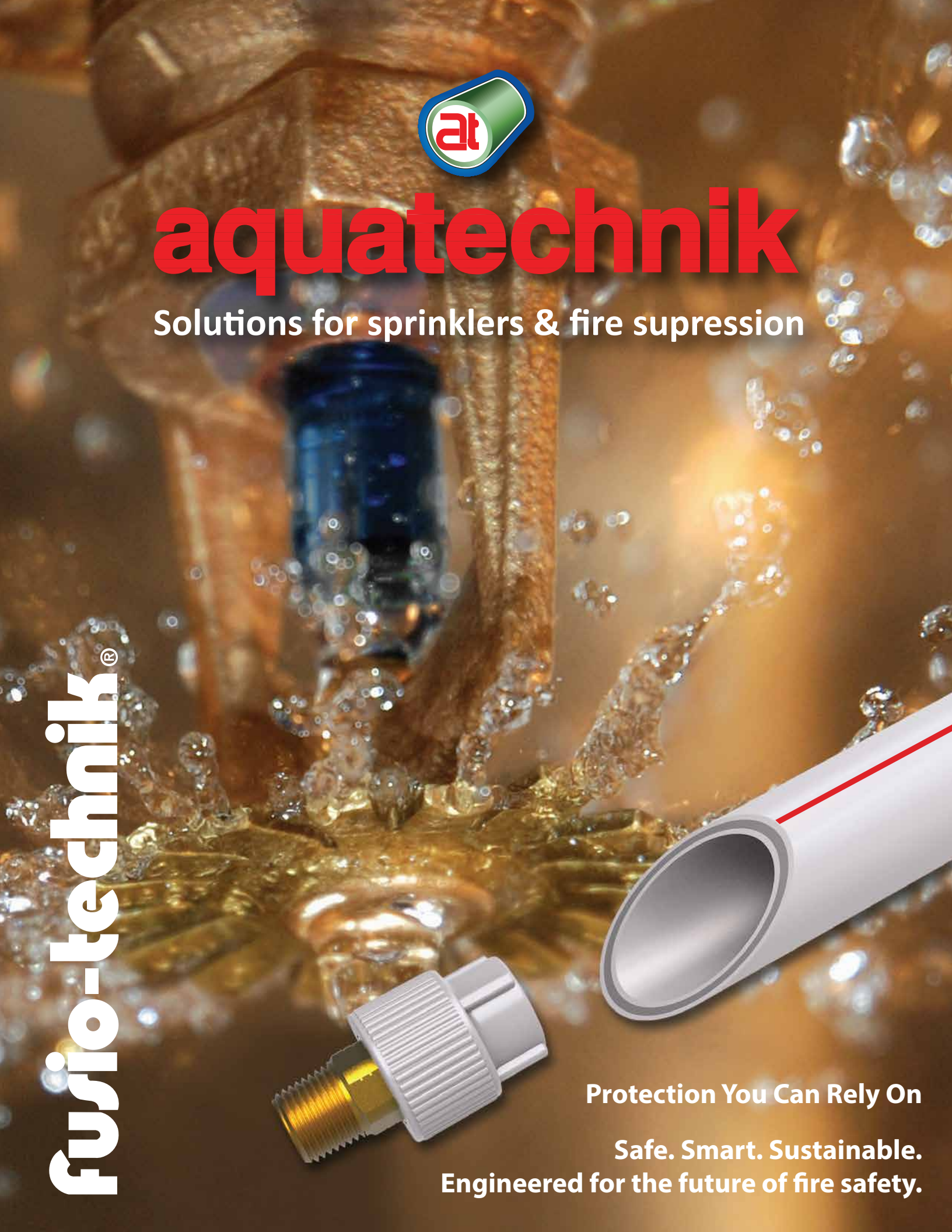
aquatechnik
Solutions for sprinklers & fire supression
fusio-technik®
Protection You Can Rely On
Safe. Smart. Sustainable.
Engineered for the future of fire safety.

aquatechnik

fusio-technik®

– The Safe Choice for Fire Protection Systems

Innovative Piping for Modern Sprinkler Networks

Aquatechnik **fusio-technik**® piping systems are specially designed for automatic sprinkler and fire suppression installations, offering maximum safety, reliability, and performance in even the most demanding environments.

With decades of Italian engineering excellence, Aquatechnik delivers cutting-edge polymer solutions that meet the highest standards for fire resistance, durability, and ease of installation.

Sustainable & Eco-Friendly

Aquatechnik **fusio-technik**® systems are fully recyclable, non-toxic, and contribute to a green building footprint.
Their lightweight nature reduces transport emissions and environmental footprint.

Tested. Proven. Trusted.

Every **fusio-technik**® product undergoes rigorous testing to ensure compliance with international fire safety standards and hydraulic performance requirements.
Aquatechnik is ISO 9001 and ISO 14001 certified, guaranteeing consistent quality and environmental responsibility.

fusio-technik® complies with FM 1635, NFPA 13, NFPA 13R & NFPA 13D.

When using an approved pipe wrap the **fusio-technik**® system meets ASTM E-84 25/50 flame/smoke rating.

System Components

fusio-technik® Pipes: Available in a full range of SDR 7.4 and SDR11diameters from 1/2"(20mm)- 4" (125mm) for all system scales.

fusio-technik® Fittings: Injection-molded for precision and uniformity

Transition Couplings: Brass or **safety**® ***plus***+ for hybrid connections

Accessories: Valves, supports, insulation sleeves, and labeling options.

Applications for Use:

- Commercial and residential sprinkler systems
- Hospitals, schools, hotels, and public buildings
- Industrial fire protection networks
- Underground and concealed sprinkler lines
- Combined potable water + fire systems (where approved)

- **High Temperature & Flame Resistance**
  fusio-technik® pipes are manufactured from advanced polypropylene (PP-RCT) with re-retardant additives, providing outstanding resistance to heat and flame spread.

- **Certified Safety Performance**
  Compliant with major international standards for fire suppression systems, including EN 13501.

- **Lightweight & Corrosion-Free**
  Unlike traditional metal piping, **fusio-technik**® pipes are immune to corrosion, scaling, and electrochemical reactions, ensuring long-term performance with minimal maintenance.

- **Quick & Clean Installation**
  The system's heat-fusion jointing technology guarantees permanent, leak-free connections — saving time and eliminating mechanical weak points.

- **Low Noise & Pressure Loss**
  Smooth internal surfaces reduce friction and hydraulic resistance, improving sprinkler efficiency and system reliability.

- **Long Service Life**
  Designed for a 50+ year lifespan, **fusio-technik**® piping maintains its integrity under continuous operating pressure and temperature conditions.

aquatechnik

Comprehensive line of innovative pipe solutions

Wide range of high quality multilayer pipes in PE-X with oxygen barrier; as well as special UV coated 7/8" pipe

Patented system of synthetic material fittings

Pipes and fittings in PP-RCT WOR for polyfusion welding

Pre-insulated pipes and fittings in PP-RCT WOR for polyfusion welding

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