

Experts in fire protection

MINIMAX

Sprinkler systems



TECHNOLOGIES

SPRINKLER SYSTEMS

Simply safe, effective and versatile

Fighting a fire which is still in the development phase is the best way to protect people, property and the environment. Minimax sprinkler systems carry out this task automatically – they identify, report, and extinguish fires independently and thus offer reliable protection around the clock. Subsequent installation of a sprinkler system in an existing building, for example, if the planned use changes, is also possible and recommendable. A successful extinguishing operation by a sprinkler system ultimately protects you from losing customers and market share due to a forced break caused by fire damage: only one in four production companies remains in the market following major damage. A well thought out fire protection concept also signals reliability to your customers.



A sprinkler system runs through all parts of the building that are to be protected with a network of pipelines and sprinklers. When on standby, a glass bulb filled with liquid seals the sprinkler. If the air temperature reaches a defined threshold value due to the heat of a fire, the expanding liquid bursts the glass bulb and activates the sprinkler. The extinguishing water hits the deflector which distributes it across the source of the fire. This means that the fire can be fought with few sprinklers and that damage is kept to a minimum. At the same time, internal and external rescue teams are alerted.

These variants of sprinkler system are differentiated:

Wet pipe system: with this system type, the pipework is completely filled with pressurized water. When the sprinkler is activated, water immediately flows onto the source of the fire.

Dry pipe system: the sprinkler pipes are filled with pressurized air in zones threatened by frost or in high temperatures. The extinguishing water is available up to the dry alarm valve station. The drop in pressure when the sprinklers open up automatically opens the dry alarm valve, the pipework is flooded and the fire extinguished.

Pre-action dry pipe system: this combination of fire detector and sprinkler system reduces the risk of water damage, for example, if a sprinkler is damaged accidentally. Before the extinguishing water is released, the fire detection system must also respond.

Our sprinkler systems are customized for each project. This enables us to offer small and medium companies a cost-effective solution which also meets all safety requirements: this is guaranteed through strict compliance with applicable guidelines, tested components, and planning and installation by qualified personnel.

Simply effective

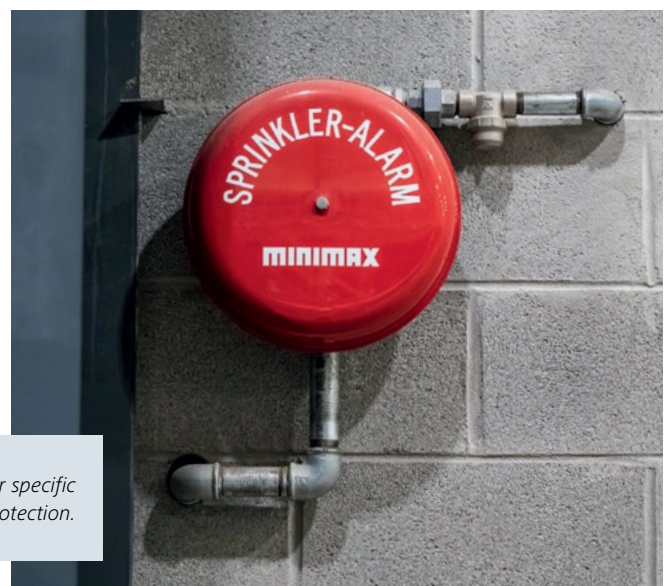
- Sprinkler systems combine fire alarms and extinguishing in one system.
- Early detection enables safe evacuation and minimizes damage to property.
- Water is directed to the exact location of the fire. Sprinklers outside of the affected area remain closed.
- The effective use of extinguishing water at the onset of the fire prevents the development and spread of smoke and harmful substances.
- Sprinkler systems enable structural and architectural flexibility and are a low-cost alternative to additional fire barriers.
- Financial damage and business interruptions are significantly reduced with the use of sprinkler systems.
- By minimizing the fire, sprinkler systems significantly support the work of the fire department.

Versatile

Minimax sprinkler systems are the safety solution for the protection of persons and property, for example, in

- public buildings and facilities
- sales outlets
- office buildings
- high-rise buildings
- basement garages
- logistics areas
- high-rack warehouses
- industrial companies
- museums
- congress and conference centers

Many insurance companies require the installation of a sprinkler system for specific industries or applications before they will provide insurance protection.

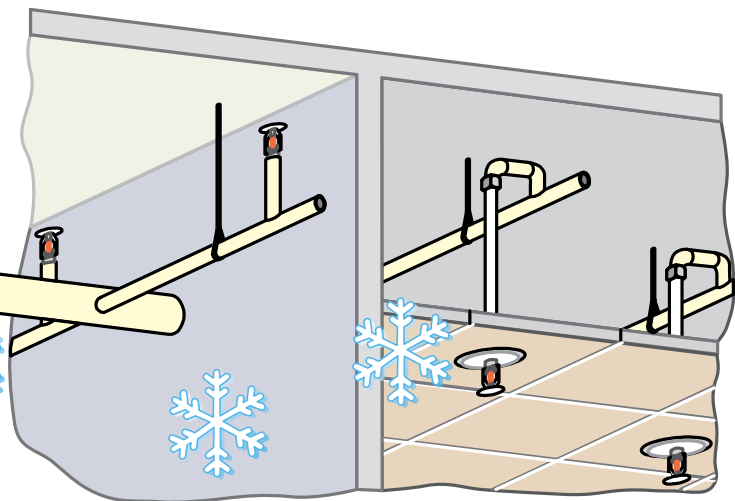
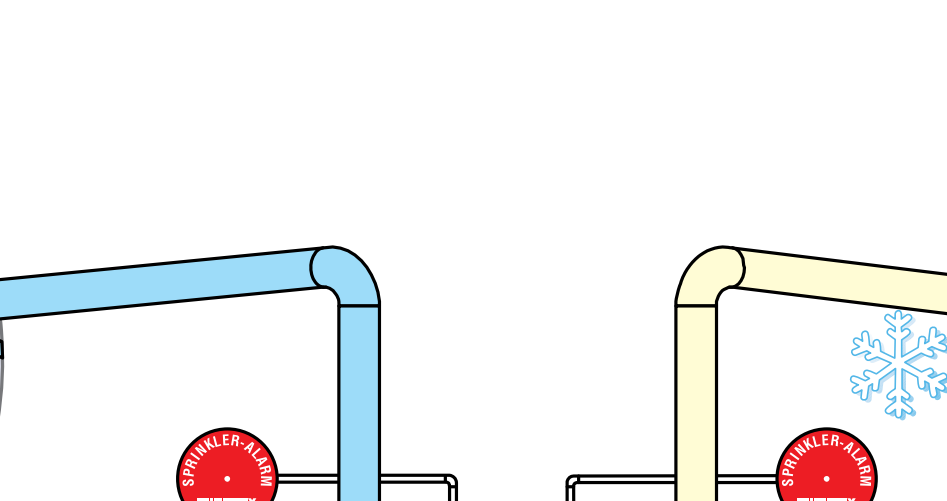
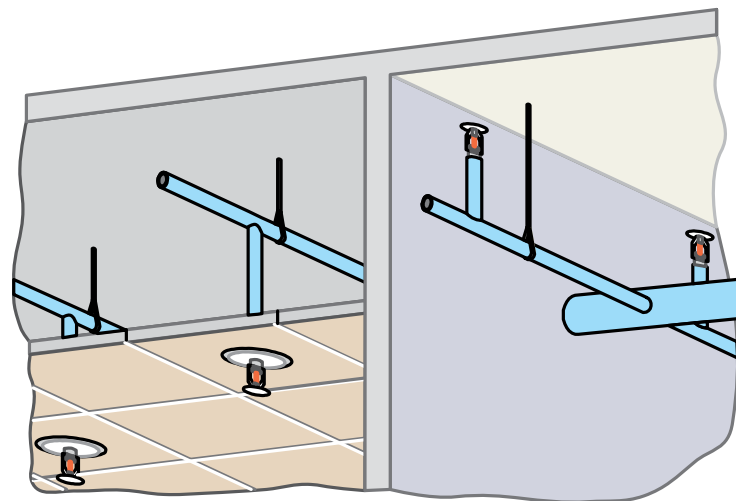


Pipe network installed above suspended ceiling – pendent sprinklers

Sprinkler pipe network laid visibly – upright sprinklers with riser pipe

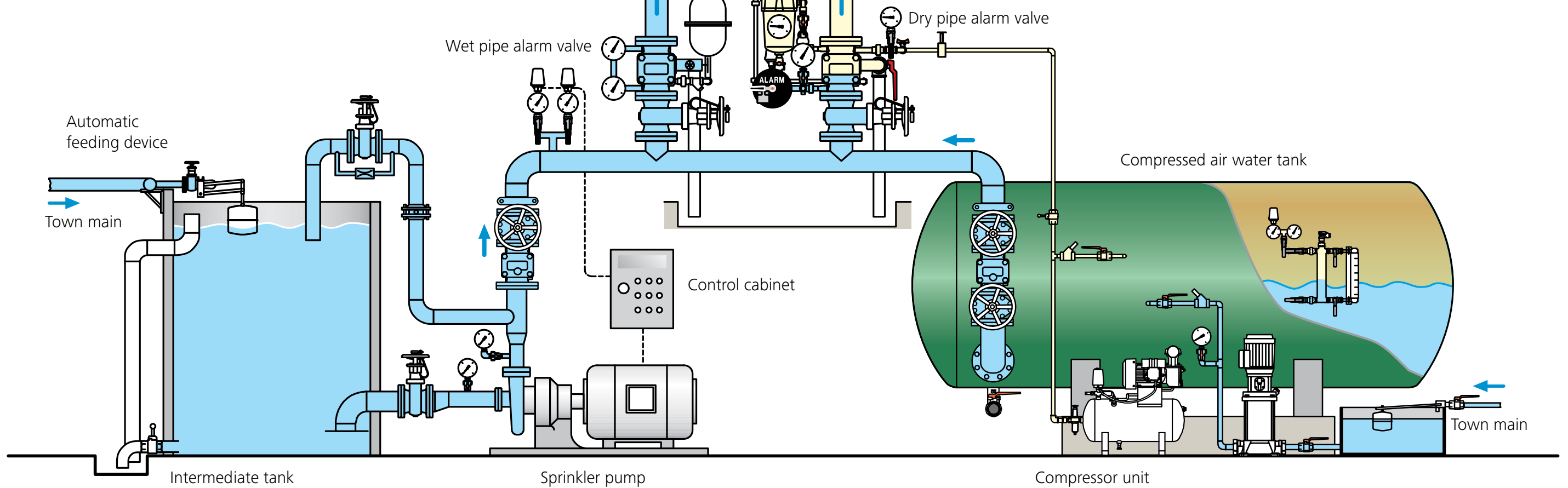
Sprinkler pipe network laid visibly – upright sprinklers with riser pipe

Pipe network installed above suspended ceiling – pendent sprinklers



Wet pipe system
for frost-protected rooms

Dry pipe system
for frost-endangered rooms



Advantages at a glance

- Sprinkler systems identify and localize fires and fight them in a targeted and independent manner. Persons and rescue teams are also alerted.
- Sprinkler systems offer effective, reliable and cost-efficient fire protection for buildings and the persons, goods and facilities inside them.
- Unlike structural fire safety measures, sprinkler systems can be modified to suit the building architecture and the requirements of optimized operational workflows.
- The use of sprinkler systems is an active contribution to sustainability – buildings, property and goods are protected, avoiding new purchases and reconstruction.
- Selective extinguishing enables the resource-efficient use of water because if there is a fire, only the sprinklers in the immediate vicinity are activated.
- Smoke and harmful substances are contained through the immediate use of extinguishing water which protects people and the environment.



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Photos

Page 2/3: Oliver Güth, Cologne