



**Sinorix™ fire hose reel cabinet**  
**with high-pressure water mist**  
for immediate and efficient  
firefighting in buildings

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**SIEMENS**

# Comprehensive fire safety solutions for every building

A fire hose reel provides immediate access to water for manual firefighting, helping building occupants and firefighting professionals control small fires before they escalate. Our compact, easy-to-operate, high-pressure water mist fire hose reel cabinet has been designed for flexible use across all building types.

High-pressure water mist technology is increasingly preferred when it comes to fire safety in buildings because it provides efficient protection of people and assets in case of a fire.

At Siemens, we integrated high-pressure water mist technology into our Sinorix fire hose reel cabinet. This fire fighting product serves as an immediate tool for fire brigades and non-professionals. The system is efficient and easy to use in a fire situation, while offering great installation flexibility.



## Tested and approved

The Sinorix fire hose reel cabinet has successfully passed fire test criteria.

The Sinorix fire hose reel cabinet has been tested in accordance with standard EN 3-7-2004+A1:2007[1].

The fire hose complies with ISO-11237.

It is fire tested against Class A fires (solid fuels) and Class B fires (flammable liquids).



# Easy installation

**The Sinorix fire hose reel cabinet is suitable for installation in any building type, modern or historic, and of any size and height.**

The system delivers effective fire safety across diverse commercial applications, including hotels, stores, warehouses, underground car parks, healthcare facilities, educational facilities, museums, offices, and high-rise buildings. It is also ideal for mitigating fire risks in various industrial settings as well as tunnels.



With a depth of only 114 mm, the Sinorix fire hose cabinet is very compact and space-saving, enabling simple and quick installation.

## Types of installation



### Mounted inside the wall (flush mount)

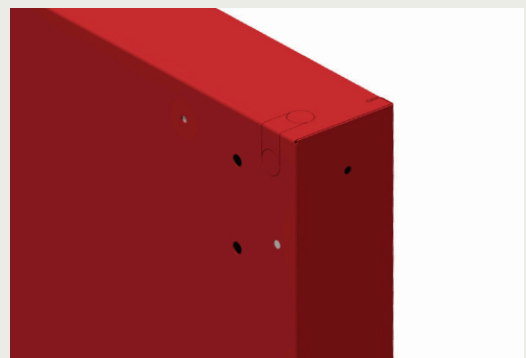
The flush mount installation means the cabinet is completely placed in the wall.

### Mounted outside the wall (surface wall mount)

The cabinet is simply installed outside the wall.

## Increased flexibility

The Sinorix fire hose reel cabinet has been manufactured with pre-cut holes for piping. This gives the installer all the flexibility needed for installing the product and connecting it to the pipe of the high-pressure water mist system.



# Easy operation and efficient integration

The Sinorix fire hose reel cabinet is designed for direct connection to the Sinorix high-pressure water mist system.

## The Sinorix fire hose reel cabinet features a spray gun combining two nozzles.

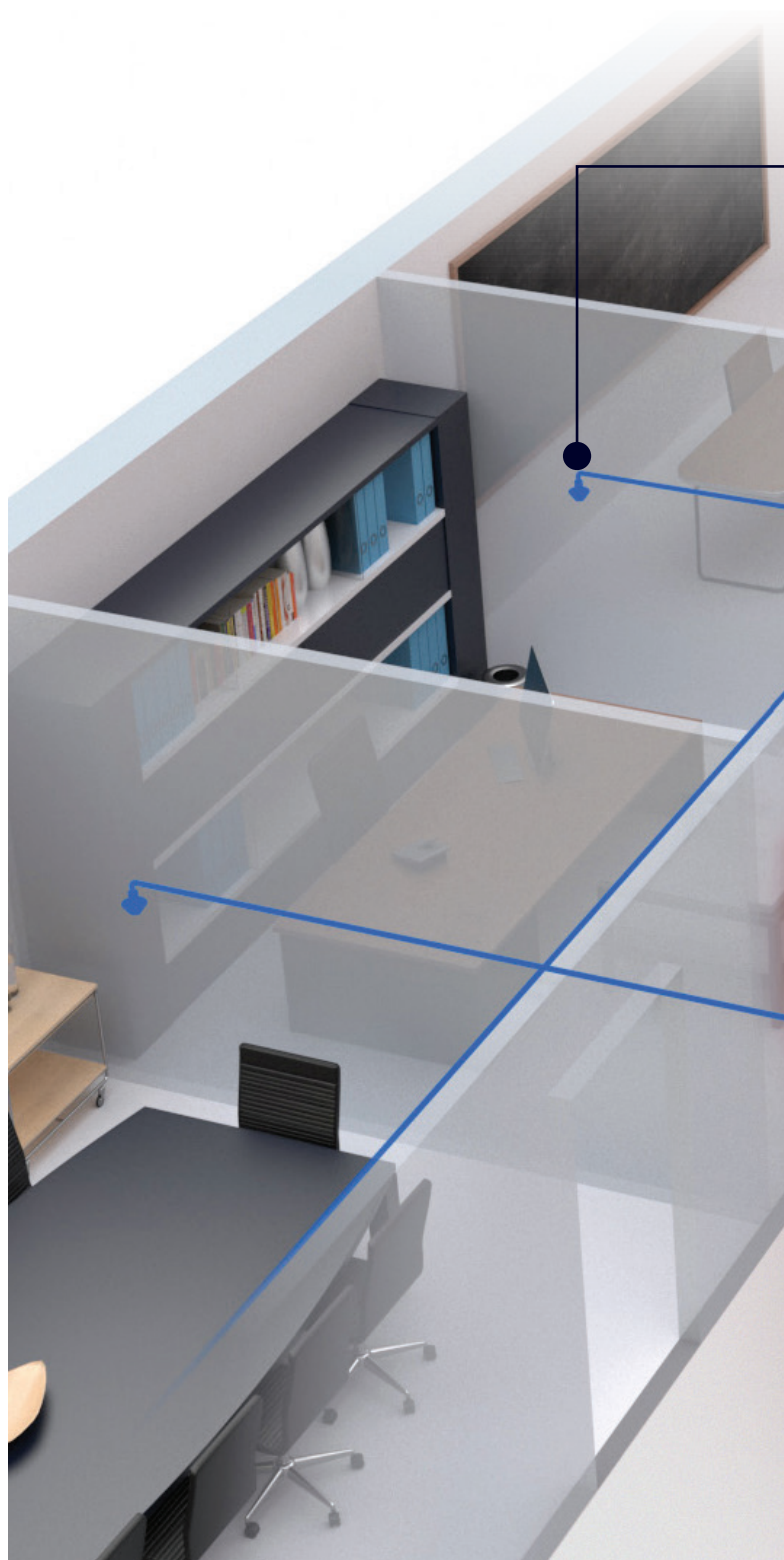
Users can easily switch between water mist and water jet modes by simply sliding the spray gun control forward or backwards.

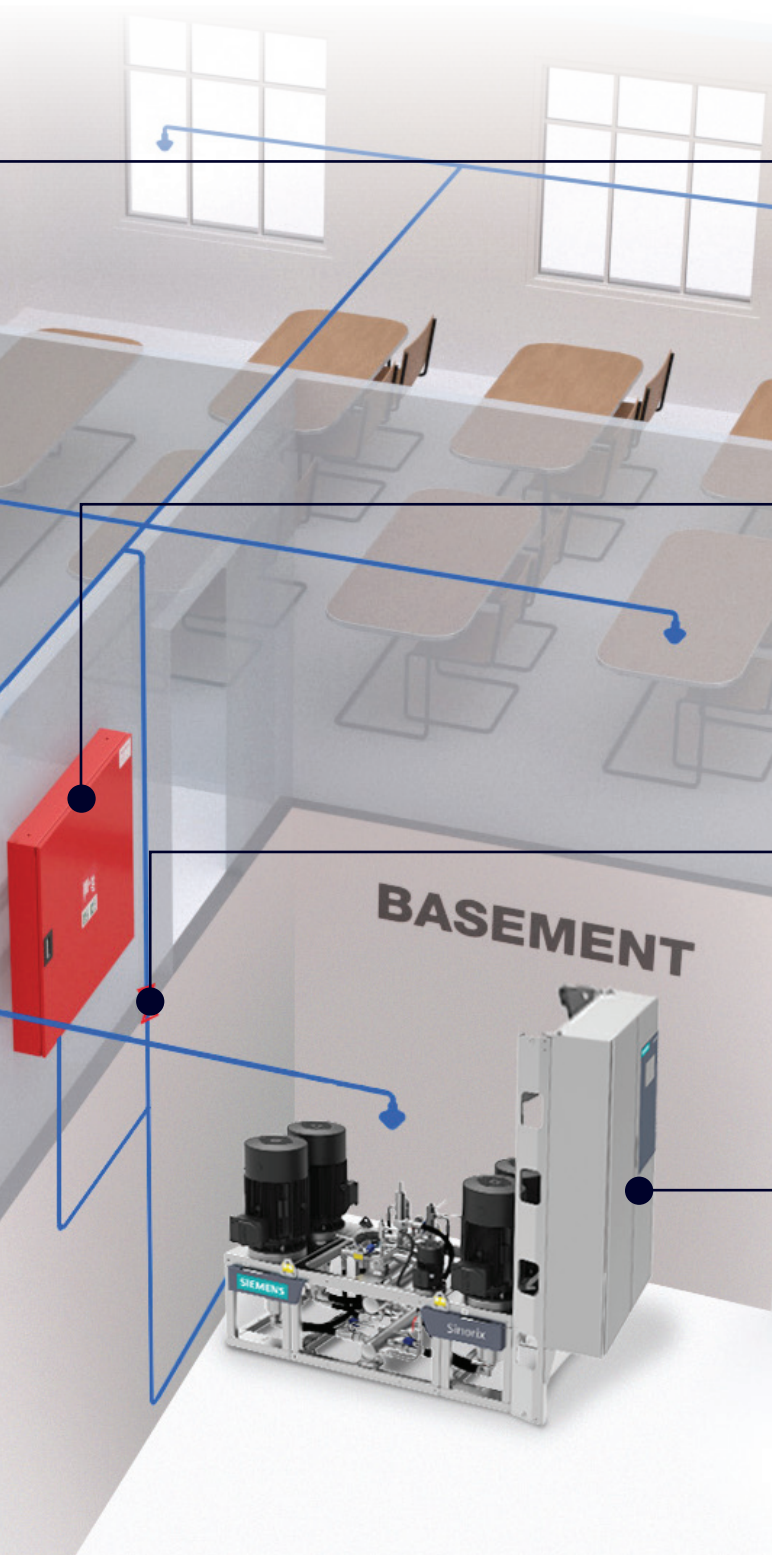
The Sinorix high-pressure water mist nozzle is ideal for spraying water mist over a large surface. High-pressure water mist has excellent suppression and cooling properties and will keep water damage to a minimum. Using the high-pressure water jet nozzle is highly recommended for deep fires that are hard to reach, for example, a fire situated inside a mattress. This will help in attacking the fire with precision, while keeping a safe distance. The water jet mode is restricted to trained firefighting professionals and should not be directed at people, nor used in Class B fires.

In addition, the cabinet is easy to locate. All the Sinorix fire hose reel cabinets are labelled with a visible pictogram. The spray gun has a 5-metre shooting range when using the Sinorix high-pressure water mist nozzle and a 10-metre shooting range when using the high-pressure water jet nozzle.

The spray gun is attached to a 30 meter long hose, which enables large coverage.

The hose reel features swivel brackets that allow the hose to be pulled in any direction and easily retracted after use.





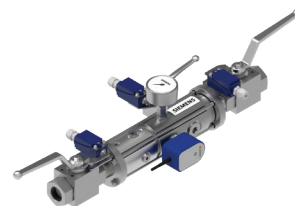
**Sinorix  
high-pressure  
water mist nozzle**



**Sinorix  
fire hose reel cabinet  
with high-pressure  
water mist**



**Sinorix  
high-pressure water  
mist section valve**



**Sinorix  
high-pressure water  
mist pump unit**



# The intelligent use of water

We took our knowledge about the excellent properties of high-pressure water mist technology and incorporated it into the Sinorix fire hose reel cabinet. By pointing the spray gun directly in the direction of the fire, the cooling effect is greater. It allows for better control of the fire. Also, it uses little water, which means low water damage in case of a fire.

## How does high-pressure water mist work

Fire relies on the presence of the three essential elements: oxygen, heat and combustible material. The removal of any one of these elements will extinguish a fire. The Sinorix high-pressure water mist technology attacks fires from two angles, by removing heat and locally displacing oxygen.

The unique characteristic of high-pressure water mist is that it combines the suppression effect of both gas and sprinkler systems. As well as removing the oxygen like a gas system, it simultaneously cools the fire like a traditional sprinkler. The cooling effect additionally lowers the risk of reignition. When high-pressure water mist comes into contact with flames, it evaporates and expands to a minimum of 1,700 times. The dense vapor created displaces the flames and quickly extinguishes the fire.

## Sinorix high-pressure water mist offering in short

Sinorix is a high-pressure water mist fire suppression system that uses micro-droplets released through nozzles into the protected area. Water is discharged in a form that ensures more effective fire suppression, control and extinguishment. The system is made up of several Sinorix high-pressure water mist nozzles, connected by stainless steel piping network to a modular Sinorix high-pressure pump unit. The pump unit can feed either automatic glass bulb nozzles or open nozzles in "wet", "pre-action" or "deluge/dry" applications. Stainless steel section valves within the Sinorix system separate the individual fire sections. The Sinorix fire hose reel cabinet is an integrated part of the Sinorix high-pressure water mist system.

The system is safe, efficient and environmentally friendly. With small pipe dimensions, large coverage, minimal water consumption, a compact pump unit and simple design, it is the perfect choice to reliably protect all areas in a building against fire.

# Benefits of the **Sinorix fire hose reel cabinet with high-pressure water mist**

## **User friendliness**

### **Easy to operate**

The Sinorix fire hose reel cabinet is very easy to operate. Its compact, lightweight design allows for effortless handling. The reel swivels out with ease, and the thin, flexible hose ensures precise control. Tests show minimal “kickback” from the spray gun, making operation smooth.

### **Easy training**

Training staff to use the Sinorix fire hose reel cabinet is straightforward. Even untrained users find it intuitive, thanks to the clear instructions on the product. The design favors simplicity, enabling anyone to operate it with confidence.

### **Intuitive design**

Simplicity and ease of use are crucial in moments of emergency, potentially saving lives. The Sinorix fire hose reel has been designed to be used even without prior training or instructions. The inlet valve is conveniently located to be opened easily. Users can simply pull the hose reel towards the fire and press the trigger on the spray gun to release the water flow.

## **Efficient fire fighting**

### **Enhanced safety**

When the Sinorix nozzle is activated, it creates a “water mist umbrella” effect. This “water mist umbrella” effect has cooling properties, shielding the person operating the fire hose reel from radiant heat generated by the fire. In addition, the high-pressure water mist will capture smoke particles and sink the smoke layer.

### **Seamless integration with the Sinorix high-pressure water mist system**

The Sinorix fire hose reel cabinet can easily be connected to the Sinorix high-pressure water mist system and works with a 60-bar and a 100-bar pressure system.

## **Cost effectiveness**

### **Simplified integration**

Since the fire hose reel cabinet is integrated with the Sinorix system, it eliminates the need for a separate water supply piping system, reducing both time and cost associated with additional piping and structural damage.

### **Quick installation**

Lightweight and engineered for easy setup, the fire hose reel cabinet reduces installation complexity, saving both time and cost.

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