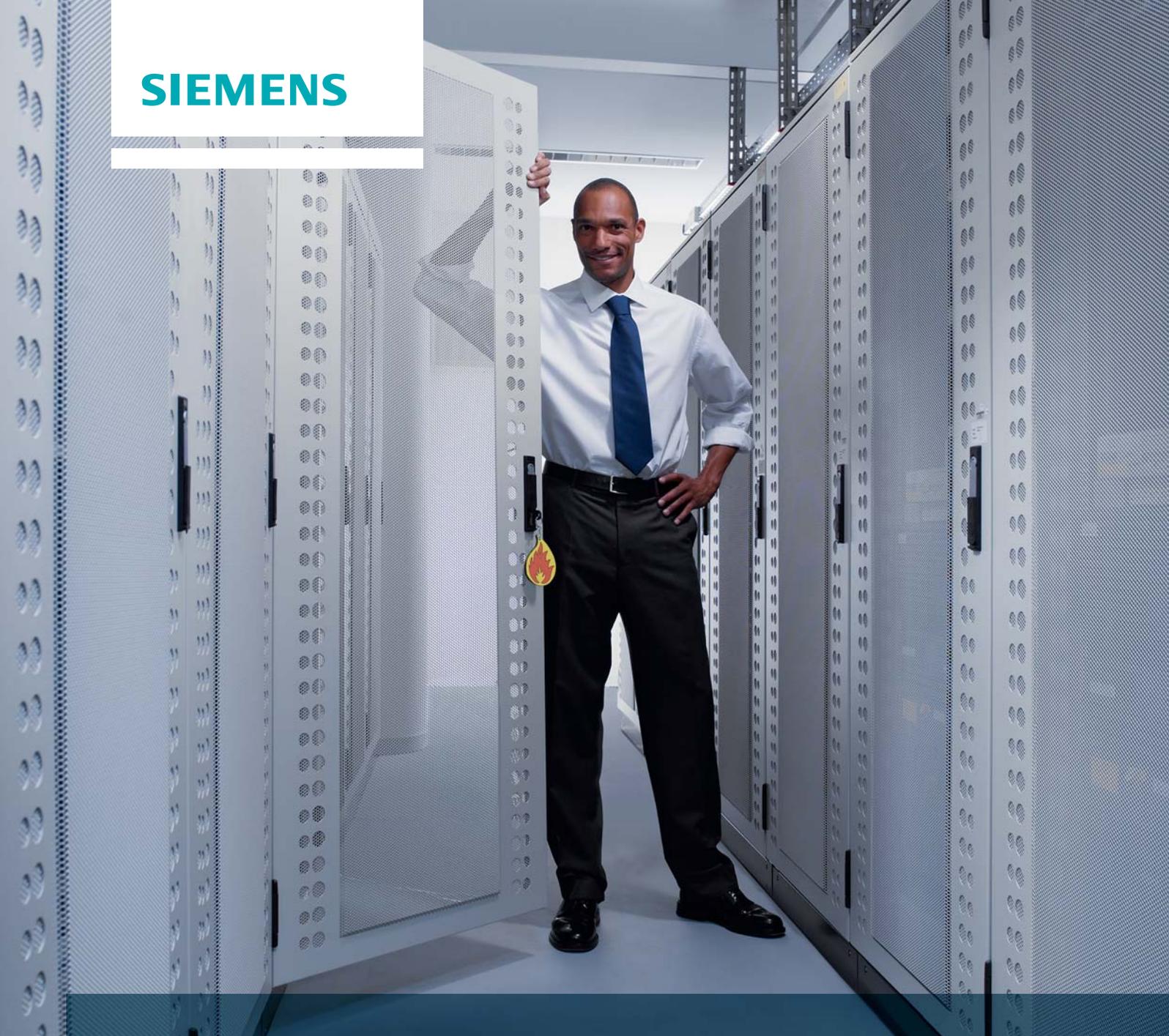


SIEMENS



Sinorix 1230 – innovative, intelligent, and environmentally friendly

Keep fire virtual. With intelligent suppression solutions from Siemens.

Answers for infrastructure.



Smart and sustainable

Sinorix 1230 acts rapidly with superior suppression properties – protecting valuable assets and ensuring fire suppression without negative impact on the environment.

Sinorix™ 1230 – protecting people, assets, and the environment

Businesses today depend on critical areas that require a higher level of protection than sprinkler systems or stand-alone smoke detection. A smoldering fire can be incapacitating in critical rooms, including server rooms, telecommunication rooms, electrical switchgear, and clean rooms. Other chemical clean agent fire suppression systems using HFCs, while safe and effective, have been the topic of much discussion and could be subject to production restriction, or be included in environmental legislation. Now Siemens offers a comprehensive solution, Sinorix 1230, the latest in waterless suppression technology. Sinorix 1230 balances safe, effective protection of business continuity with the growing concern for controlling greenhouse gas emissions and protecting the environment.

Innovative, intelligent, and environmentally friendly

Sinorix 1230 is an innovative solution that reduces the risk of fire damage in critical applications, sensitive equipment areas, and at museums or archives holding rare and invaluable collections. The Sinorix 1230 solution is based on a long-term, sustainable technology that

has one of the highest safety margins in the industry and ensures quick and reliable suppression without negative impact on the environment. It utilizes 3M™ Novec™ 1230 Fire Protection Fluid, an environmentally friendly suppression agent that is safe at design concentrations, effective, and not subject to regulatory restrictions or phaseout. Suppression via its cooling effect, Novec 1230 fluid works as a gas, yet it is a liquid at room temperature.

Before flames become large enough to activate the sprinklers, the Sinorix 1230 system reacts by absorbing the heat. This rapid response interrupts the balance of fire and promptly extinguishes it.

Novec 1230 fluid is a fluoroketone, a proprietary 3M technology that makes Sinorix 1230 an advanced halon replacement alternative with an excellent environmental profile:

- Novec 1230 fluid has a Global Warming Potential (GWP) of 1, the lowest GWP for any chemical clean agent
- Zero ozone depletion potential
- Short atmospheric lifetime of 3 to 5 days; compare this to years, decades, and even centuries for other halocarbon alternatives



Legend

- 1 Fire detection and suppression control panel
- 2 Fire detector
- 3 Agent release horn/strobe
- 4 Agent release manual pull station
- 5 Abort station
- 6 Sinorix 1230 cylinder
- 7 Pipe network & nozzles
- 8 Overpressure flap

- Offers a significant reduction in greenhouse gas emissions over hydrofluorocarbons (HFCs), enabling you to replace an existing system and achieve credits toward LEED-EB Certification
- Non-toxic, non-flammable, and non-explosive agent has no transport restrictions
- Because of its use, the concentration is much lower than its No Observable Adverse Effects Level (NOAEL), the Sinorix 1230 system offers the largest margin of safety of any chemical halon replacement available on the market today. Note: Industry standards require the egress from a protected enclosure prior to system discharge.

Safe for assets and people

The Sinorix 1230 agent is non-conductive, which means it does not damage high value assets such as energized electronics. It is also harmless to human health at design concentrations. A low acute toxicity gives the Sinorix 1230 agent the widest margin of safety compared to halocarbon agents, CO₂ or inert gas mixtures. This makes the Sinorix 1230 system ideal for spaces that are normally or occasionally occupied.

Scalable solutions for facilities of all sizes

Siemens is the only special hazards fire suppression manufacturer to produce 100% of the detection control and suppression equipment. From the smoke detector to the nozzle, we have you covered.

Siemens offers the widest range of storage options in the industry – with agent storage capacity from 16 to 1,200 pounds of Novec 1230 in a single cylinder. This allows for efficient use of cylinders in any combination to meet any project size.

Highlights

- Latest solution in waterless technology
- Optimal protection in critical applications and sensitive equipment areas
- Quick, reliable suppression without negative impact on people or environment
- Advanced halon replacement alternative with largest margin of safety available
- Detection control and suppression equipment from one source – Siemens

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

3M

Novac™ 1230
Fire Protection Fluid
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Answers for infrastructure.

Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly

growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

“We are the preferred partner for energy-efficient, safe and secure buildings and infrastructure.”