CLEAN AGENT FIRE SUPPRESSION

SHTG 227

HFC-227ea systems for total flooding applications



25 / 42 / 50 bar systems

Protecting critical assets

SHTG 227 systems use HFC-227ea clean extinguishing agent to protect enclosed spaces. Rapid dispersion and compact storage make them suitable for applications where equipment, continuity and available space matter.

Rapid dispersion

Total flooding protection

Clean agent

No post-discharge residue

Compact storage

Efficient use of space

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THE EXTINGUISHING AGENT

HFC-227ea

Clean agent protection for enclosed spaces and sensitive equipment.



How it works

HFC-227ea is stored as a liquefied compressed gas and discharged through a designed nozzle network. It disperses throughout the protected enclosure to achieve the required extinguishing concentration.

Typical applications

Data centres and server rooms
Telecommunications facilities
Power generation facilities
Marine and offshore facilities
Museums, archives and storage

Agent properties

Extinguishing agent	**HFC-227ea**
Chemical identity	**CAS 431-89-0**
Ozone depletion potential	**0**
Agent operating range	**0°C to 50°C**

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SYSTEM HARDWARE

Components at a glance

Dedicated hardware for actuation, discharge and multi-cylinder arrangements.



01 Manual actuator

Provides local manual actuation of the cylinder discharge valve.



02 Pneumatic actuator

Uses pressure from the master cylinder to actuate slave cylinders.



03 Discharge nozzles

Distribute the extinguishing agent throughout the protected enclosure.



04 Check valve

Helps prevent reverse flow in a shared discharge manifold.

05 Electrical actuator

Provides electrical actuation of the cylinder discharge valve. Operates on a 24 V DC supply.



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SYSTEM CONFIGURATIONS

Designed around the hazard



Flexible system arrangements

Single-cylinder and multi-cylinder configurations allow the system to be designed for the protected enclosure. In multi-cylinder arrangements, a master cylinder can initiate pneumatic actuation of the slave cylinders.

System sizing, pipework, nozzle selection and agent quantity are determined for each project using the applicable system documentation.

UL LISTED

FM APPROVED

SNAP Listed

Approvals by system pressure

SYSTEM	UL	FM APPROVALS
25 bar	Listed	Approved
42 bar	Listed	Certification in progress
50 bar	Listed	Certification in progress

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