CLEAN AGENT FIRE SUPPRESSION

SHTG 1230

FK-5-1-12 systems for total flooding applications



25 / 42 / 50 bar systems

Protecting critical assets

SHTG 1230 systems use FK-5-1-12 clean extinguishing agent to protect enclosed spaces. The electrically nonconductive agent leaves no residue and combines effective fire suppression with zero ozone depletion potential and a global warming potential below 1.

Rapid discharge

Agent discharge in under 10 s

Clean agent

No post-discharge residue

Low GWP

Global warming potential < 1

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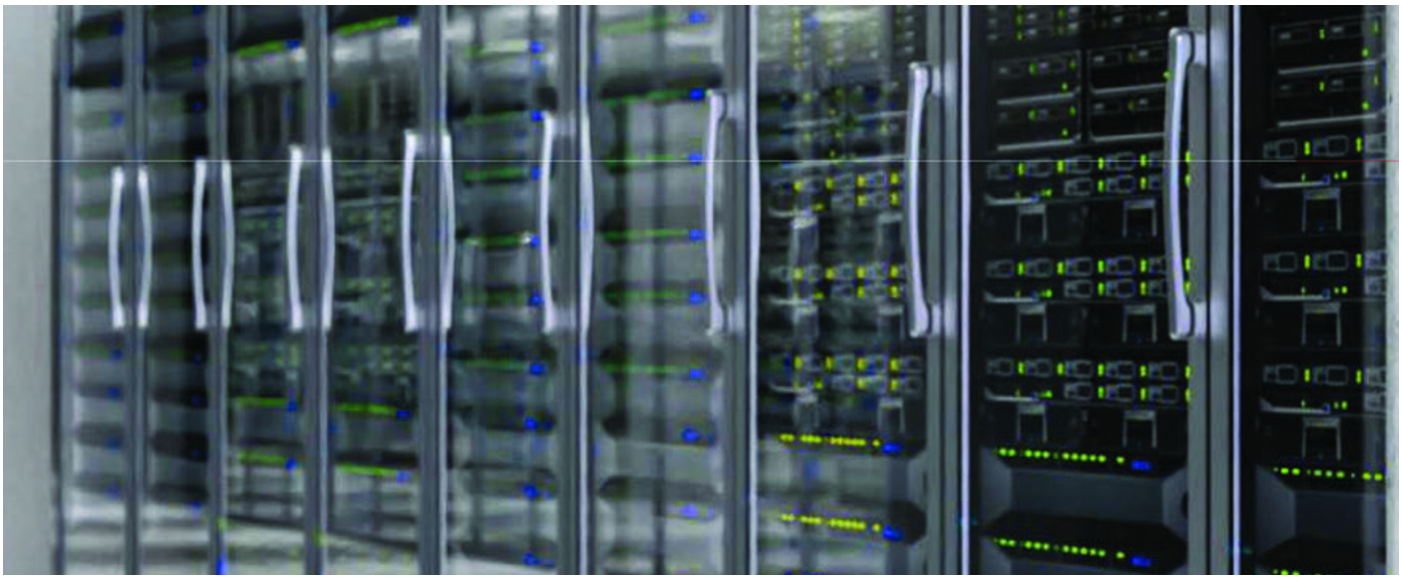
THE EXTINGUISHING AGENT

FK-5-1-12

Clean agent protection for enclosed spaces and sensitive equipment.



How it works

FK-5-1-12 is stored as a liquid and discharged through a designed nozzle network as a clear vapor. The electrically nonconductive agent absorbs heat to suppress fire without leaving residue.

Typical applications

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

Agent properties

Extinguishing agent	**FK-5-1-12**
Chemical identity	**CAS 756-13-8**
Ozone depletion potential	**0**
Global warming potential	**< 1**

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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.

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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