





SHTG 227™ Fire Suppression System

HFC-227ea Clean Agent · Total Flooding · 25 / 42 / 50 Bar

The SHTG 227™ Fire Suppression System protects what matters most: your people, your critical data and your equipment. Engineered and certified to the most rigorous international standards, it delivers fast, clean and reliable protection for high-value assets in occupied environments.

Clean Agent Power Protects People and Property

- Suppresses Class A, B and C fires
- Agent discharge in under 10 seconds
- Less visual obscuration and minimal risk to personnel
- Colorless, odorless clean agent leaves no residue
- Electrically nonconductive
- Safe for occupied spaces (NOAEL 9.0% v/v)
- No ozone depletion potential
- Three operating pressures: 25, 42 and 50 Bar
- UL Listed and FM Approved

Cost-Effective Protection for High-Value Assets

High-value assets such as data centers and sensitive equipment demand the quality fire suppression offered by the SHTG 227™ system. It is ideal for areas occupied by personnel and containing assets that could be damaged by water. The low concentration of agent required and its low toxicity mean less visual obscuration and minimal risk to people.

Clean, Residue-Free Suppression

The system fights Class A, B and C fires with a clean agent that is electrically nonconductive and will not short-out electronic equipment or thermally shock delicate circuitry. The colorless, odorless gas leaves no residue, eliminating post-fire cleanup and minimizing downtime.

Flexible Activation and Distribution

Both automatic and manual actuators are available for release of the agent into the hazard area through fixed piping and nozzles. Each UL/FM-listed nozzle is sized to ensure the correct flow of agent for the hazard, in 180 or 360 degree horizontal discharge patterns. For large hazards, agent containers can be connected to a common manifold.

Approvals and Standards

The SHTG 227™ system is UL Listed (UL 2166) and FM Approved (FM 5600). It complies with NFPA 2001 Clean Agent Fire Extinguishing Systems, ISO 14520 Gaseous Fire Extinguishing Systems, EN 15004 and the US EPA SNAP program.

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APPLICATIONS FOR SHTG 227™ FIRE SUPPRESSION SYSTEM

- Art galleries
- Bank vaults
- Cell sites
- Communication centers
- Computer rooms and subfloors
- Control rooms
- Electronic data processing
- Flammable liquid storage
- Healthcare facilities
- Historical buildings
- Laboratories
- Libraries
- Museums
- Process control rooms
- Robotic systems
- Studios
- Tape storage libraries
- Telecommunications facilities
- Telephone equipment rooms
- Transformer and switch rooms
- Vaults and record storage

OPERATING PRESSURES AND CYLINDER RANGE	
25 Bar (362 psi)	DOT 4BW500 welded cylinders. X-Line 26.8L to 175.0L, Y-Line 16.7L to 369.0L
42 Bar (609 psi)	TPED/ISO welded and seamless cylinders, 15L to 180L (seamless)
50 Bar (725 psi)	ISO 9809 seamless cylinders, 15L to 180L
Discharge time	Under 10 seconds at all operating pressures
Nozzle patterns	180 and 360 degree horizontal discharge, UL/FM listed

APPROVALS, STANDARDS AND AGENT PROPERTIES	
Certifications	UL Listed (UL 2166), FM Approved (FM 5600), US EPA SNAP Listed
Design standards	NFPA 2001, ISO 14520-1, EN 15004-1
Extinguishing agent	HFC-227ea, CAS 431-89-0 (1,1,1,2,3,3,3-Heptafluoropropane)
Ozone Depletion Potential	0
NOAEL	9.0% v/v, suitable for normally occupied spaces
Physical properties	Boiling point -16.4 C, vapor pressure 457.7 kPa at 25 C, non-flammable

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