

UL Certified Hi-Tech HFC227ea Clean Agent Fire Extinguishing Systems

Businesses with concentrated sensitive electronic devices, museums, or archive centers need fire extinguishing systems which do not leave collateral damages due to agent discharge and require rapid suppression during early stages of fire growth. Unsuitable fire suppression systems could cause as much significant property damages and financial losses as the fire itself. Context Plus Clean Agent Systems are the right choice in these cases. It is affordable and has integrated up-to-date technology. Our systems will provide peace of mind for customers worldwide.



HFC-227EA

Context Plus HFC227ea ($\text{CF}_3\text{CHFCF}_3$ Heptafluoropropane) is a UL listed colourless, odourless, liquefied compressed gas. It suppresses fire primarily by physically cooling down the flame through lowering temperature to a point at which combustion reactions cannot be sustained.

As a waterless fire suppressant, it leaves no residue, water or corrosion. It has acceptable toxicity for use in occupied spaces at design concentration.

It can be used on many types of fires. It is environmentally friendly. It has Zero ozone-depleting potential, low global warming potential and short atmospheric lifetime.

Key Features

- Engineered and pre-engineered systems available
- Effective and fast fire suppression against electrical fire
- Widely applicable, from sensitive electrical equipment to industrial applications using flammable liquid
- Electrically non - conductive
- Acceptable toxicity for use in occupied and concentrated spaces
- No residue to clean up after discharge and environmentally friendly
- Whole systems UL listed



POWERFUL
INTELLIGENT
EFFICIENT
SAFE
COST-EFFECTIVE



Engineered Systems and Pre-Engineered Systems

Engineered Systems

Our Engineered Clean Agent System gives great flexibility in design parameters. Each application requires an individual calculation to find out the required quantity of HFC-227ea clean agent and its set of pipes and fittings sizes. The area coverage of each nozzle can be calculated using the Context Plus calculation software which creates optimum designs with reduced pipe sizes and unbalanced

flows, and makes ceiling and floor void protection possible. We can provide our software which enables engineers to perform required flow, piping and nozzle details. Our manuals are extensively prepared to allow for clear understanding of systems design, installation and maintenance.

Pre-Engineered Systems

Our Pre-Engineered Clean Agent Systems offer low cost engineering / design options. The small

cylinders (capacity 3 to 18 LB gas) are manufactured, tested and stamped in accordance with UL299. The larger cylinders (capacity 35 LB to 560 LB Gas) are manufactured, tested and stamped in accordance with DOT4BW500 or DOT4B500. All cylinders are equipped with a high flow pressure valve, an NPT outlet and pressure gauge. Local manual control, electric solenoids and a pressure supervisory switch can also be optionally included.



Context Plus values customer satisfaction. With 30 years of industry experience, we successfully manage fast, reliable, and safe trading practices.

Cylinders — Compliant with DOT4BW500 & DOT4BA500

Context Plus Clean Agent System Cylinders are manufactured, tested and stamped in accordance with DOT4BW500 and DOT4BA500, and have a wide range of sizes. In case of automatic or manual actuation, the pressure

on the top of the piston is relieved and the piston slides open allowing cylinder discharge. All cylinders are equipped with back pressure type valve with 2 outlets, one transmits cylinder pressure to an optional low pressure supervisory switch which

monitors the internal pressure of the cylinder, and the other is used to drive the piston actuators on a multiple cylinders system or to trigger a switch in case of cylinder discharge. Our Clean Agent Cylinders are available in the following capacities:

Model Number	Cylinder Size	Max. fill at 70lb/ft ³	Min. fill at 30lb/ft ³	Valve Size
CP90035-E	35 LB	35 LB	16 LB	1" Valve
CP90070-E	70 LB	71 LB	31 LB	1" Valve
CP90150-E	150 LB	152 LB	69 LB	1 1/2" Valve
CP90250-E	250 LB	253 LB	109 LB	1 1/2" Valve
CP90375-E	375 LB	379 LB	163 LB	2 1/2" Valve
CP90560-E	560 LB	561 LB	241 LB	2 1/2" Valve
CP901200-E	1200 LB	1211 LB	519 LB	4" Valve



Cylinder Bracket

35 lb to 250 lb—One Bracket needed
275 lb to 560 lb—Two Bracket needed

Temperature range : 32°F(0°C) to 130°F (54.4°C)

Operation Pressure : 360 psi at 70°F (25.3 kgf / cm² at 21.1°C)

System Components

Electronic Solenoid



Our Electronic solenoid valve is a normally closed valve requiring electrical energy to open. It is used to vent the pres-

Models: CP 50025-2
CP 91225-2

sure from the top of the piston in the cylinder valve, allowing the piston to slide upward and commence cylinder discharge. The cylinder discharge valve equipped with a solenoid valve is actuated by the control panel for releasing devices and is compatible with Context Plus clean agent systems.

Flexible Hoses



Our hoses are made of high pressure hydraulic rubber in the 1" to 1-1/2" sizes and of stainless steel in the 2-1/2" and 4" sizes.

Nozzles



It assists in a quick and effective distribution of clean agent. Available size: 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"

Pressure Supervisory Switch



Models : CP 50138-2 (N.O.)
CP 50138-1 (N.C.)

It monitors the pressure within the clean agent cylinder, indicates pressure loss, provides a signal to the extinguishing control panel when pressure drops to below 291±10 psig.

Local Manual Control Head



Model: CP 61033

It is used for manual actuation of cylinder, and made of solid Brass. It is self-venting with a safety pin to prevent accidental discharge.

Piston Actuator



Model: CP 61041

Used for multiple / manifold systems, it has a pneumatically driven piston that depresses a Schrader check valve. It is made of high quality Brass, and mounts directly on top of the cylinder valves.



Context
Plus systems

are UL certified and comply with the quality requirements specified in the standards.

Latching Solenoid with Local Manual Control Head

Context Plus offers latching solenoid model CP50026. This is held in the latched position until a signal from the extinguishing control panel releases it. The latching solenoid can be equipped with a local manual control head model CP61033-2 to manually discharge the clean agent. The latching solenoid with its optional

local manual control head is used when a pin actuation is required to be visible during system test with



Local Manual Control Head
Model: CP 61033-2

the latching solenoid removed from the top plug adapter.



Latching Solenoid 24 VDC
Model: CP 50026



For more information,
please visit our website
WWW.CONTEXTPLUS.CO.UK

Applications

Context Plus clean agent fire extinguishing systems are designed to protect the overall structure of valuable assets. It ensures that business can continue after a fire disruption with minimal damage, unlike other fire extinguishing process such as water. The typical applications are as follows:

- Computer rooms
- Laboratories
- Medical equipment, Pharmaceutical
- Museum, Art galleries and libraries
- Control rooms/centers
- Telecommunications facilities
- Ship's engine rooms
- Historical Building
- Archive Storage
- Petrochemical plant



Context Plus (associated company of Xportsales, IMCI Services Ltd) is a company with 30 years of experience in the UK and with worldwide sales in over 50 countries. We have constantly demonstrated strength in marketing and trading fire safety and security systems from UK manufacturers to international markets. We have now included clean agent fire extinguishing systems in our extensive product ranges. The complete filling, pressurization and assembly of the fire suppression cylinders are carried out in our UL inspected plant in England.

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