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 (CF₃CHFCF₃ 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

UL Certified Hi-Tech
HFC227ea Clean Agent Fire Extinguishing Systems

![UL Certified Hi-Tech HFC227ea Clean Agent Fire Extinguishing Systems](image)
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.

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:

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Cylinder Size</th>
<th>Max. fill at 70lb/ft³</th>
<th>Min. fill at 30lb/ft³</th>
<th>Valve Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP90035-E</td>
<td>35 LB</td>
<td>35 LB</td>
<td>16 LB</td>
<td>1&quot; Valve</td>
</tr>
<tr>
<td>CP90070-E</td>
<td>70 LB</td>
<td>71 LB</td>
<td>31 LB</td>
<td>1&quot; Valve</td>
</tr>
<tr>
<td>CP90150-E</td>
<td>150 LB</td>
<td>152 LB</td>
<td>69 LB</td>
<td>1 1/2&quot; Valve</td>
</tr>
<tr>
<td>CP90250-E</td>
<td>250 LB</td>
<td>253 LB</td>
<td>109 LB</td>
<td>1 1/2&quot; Valve</td>
</tr>
<tr>
<td>CP90375-E</td>
<td>375 LB</td>
<td>379 LB</td>
<td>163 LB</td>
<td>2 1/2&quot; Valve</td>
</tr>
<tr>
<td>CP90560-E</td>
<td>560 LB</td>
<td>561 LB</td>
<td>241 LB</td>
<td>2 1/2&quot; Valve</td>
</tr>
<tr>
<td>CP901200-E</td>
<td>1200 LB</td>
<td>1211 LB</td>
<td>519 LB</td>
<td>4&quot; Valve</td>
</tr>
</tbody>
</table>

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)
Our Electronic solenoid valve is normally closed valve requiring electrical energy to open. It is used to vent the pressure 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.

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.

- **Flexible Hoses**
  - 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.

- **Electronic Solenoid**
  - Models: CP 50025-2, CP 91225-2
  - Our Electronic solenoid valve is a normally closed valve requiring electrical energy to open.

- **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.

- **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 the latching solenoid removed from the top plug adapter.
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.