



PESO



Specially Designed for
**Automatic/Cylinderless
Fire Detection
& Suppression**
for Small
Enclosures.

FireCease[®]
BY ADVENT

Mini Intuitive Direct Suppression System

The FIRECEASE[®] Linear Pneumatic Heat Detection tube, when mounted inside a small enclosure and charged with UL-approved FK5-1-12 extinguishing agent pressurized with Nitrogen, is designed to detect fire or excessive heat within a temperature range of 85°C to 135°C.

Upon exposure to such heat, the tube ruptures at the hottest spot, automatically creating a nozzle through which the stored agent is instantly released. This direct discharge onto the ignition source rapidly extinguishes the fire and saturates the space with the agent to prevent further spread or reignition. To enable alarm or control functions, the system can be integrated with a LPCB-approved monitoring switch connected to an End-of-Line (EOL) device, which can interface with any standard Fire Alarm Control Panel (FACP) or Audio-Visual alert system. This setup allows the system to trigger auxiliary functions like power cut-off or ventilation control upon activation. FIRECEASE[®] offers a standalone and maintenance-free fire suppression solution. It operates independently without the need for external power or complicated wiring. System readiness can be visually verified using the integrated pressure gauge.

Key Features

- Crafted from a specially engineered compound suited for challenging and chemically reactive environments.
- The formulation is optimized to avoid corrosion or surface damage when used with galvanized metals or equipment.
- Designed to minimize permeability, ensuring the pressurizing gas remains contained over time, contributing to 100% operational reliability.
- Undergoes non-destructive pressure testing, capable of withstanding internal pressures of up to 120 Bar.
- With clean agent capacity in tube options of 0.05 Kg and 0.25 Kg for micro-enclosure protection.
- Exhibits low absorption rates for both moisture and water, enhancing durability and shelf-life.
- Offers strong chemical resistance against a wide range of commonly encountered substances.
- Fully compatible with Inert gases, as well as both low-pressure and high-pressure suppression agents.
- Functions effectively as a standalone linear heat detection and suppression system, without the need for external triggering mechanisms.
- Suitable for use with a variety of clean agents, including FK-5-1-12, HFC-227ea, and FE-36.

TYPICAL MATERIAL SPECIFICATION

Composition	Proprietary Information - Special Formulated Polymer Material			
Dimensions (ID/OD)	12 x 10mm 17 x 15mm.			
Part No.	7000300 8000100			
Operating Temperature*	85–135°C			
Burst Pressure	Up to 120 Bar			

PHYSICAL PROPERTIES

Part Number:	AAFX-7000300 & AFX-8000100			
Property	Standard	Units	State	Value
Density	ISO1183	Kg/m ³	NA	1.02
Moisture absorption 23°C-50%RH	ISO62	%	NA	0.7
Water absorption, immersion at 23°C	ISO62	%	NA	1.5
Bending Radius	BS ISO 7328:2010	mm	Dry	30 (max)
Wall Thickness	BS ISO 7328:2010	mm	Dry	1.5 mm min (+/-0.15%)
Tolerance	BS ISO 7328:2010	%	Dry	+/-0.12

Intelligent Protection System
Round the Clock 24 x 7

THERMAL PROPERTIES				
Property	Standard	Units	State	Value
Melting Point	ISO11357	°C	Dry	174
Heat Deflection Temperature	ISO75	°C	Dry	45

ELECTRICAL PROPERTIES				
Property	Standard	Units	State	Value
Volume Resistivity	IEC60093	Ohm-m	Dry	Condt. 10 ¹⁶
Surface Resistivity	IEC60093	Ohm	Dry	Condt. 10 ¹⁶
Dielectric Strength	IEC-60243-1	kV/mm	Dry	32

DESIGN & INSTALLATION GUIDE				
Standard Length:	1.0M	2.0M	3.5M	5.0M
17 x 15mm (OD x ID) Part No.	8000101	8000102	8000103	8000105
Required Clean Agent (Kg) (FK5-1-12)	0.17–0.26Kg	0.34–0.51Kg	0.63–0.84Kg	0.85–1.28Kg
Volume Protected (m ³)	0.2–0.3m ³	0.4–0.6m ³	0.75–1.0m ³	1.0–1.2m ³
Standard Length: 12 x 10mm (OD x ID)	1.5M 7000301	3.0M 7000303	5.25M 7000305	7.5M 7000307
Required Clean Agent (Kg) (FK5-1-12)	0.20–0.25Kg	0.38–0.45Kg	0.70–0.75Kg	1.0–1.10Kg
Volume Protected (m ³)	0.2–0.3m ³	0.4–0.6m ³	0.75–1.0m ³	1.0–1.2m ³

FIRECEASE Automatic Fire Suppression Systems Advantages

- Provides round-the-clock, automatic fire detection and protection, safeguarding critical equipment and data from fire hazards.
- Enables rapid fire detection and suppression within seconds, significantly minimizing potential damage and operational downtime.
- Equipped with multiple detection points through AutoFireX's proprietary Fire Detection Tube (FDT), which functions as a linear pneumatic heat sensor along its full length.
- Operates independently of external power sources, ensuring reliable performance. Designed to activate only upon direct fire or heat exposure, thereby avoiding false alarms or unintentional discharges.
- Systems using clean agent suppressants leave no residue, eliminating the need for cleanup after discharge.
- Designed for simple integration into new or existing enclosures such as electrical panels, server cabinets, etc., with zero power requirements.
- Utilizes UL-certified, low-pressure clean agents that are safe for equipment and eco-friendly, posing no harm to the environment.
- Offers flexible integration options for triggering alarms, controlling power supply, managing ventilation, and connecting with monitoring systems like BMS or SCADA.
- Requires minimal maintenance, does not obstruct routine servicing of equipment, and is suitable for retrofit installations.

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