

FOAMTECH UL LISTED FIRE DETECTION TUBE



LISTED CE

FIRE  **MINDER**

PRE-ENGINEERED AUTOMATIC
FIRE SUPPRESSION SYSTEMS
WITH   DETECTION TUBE &
EXTINGUISHING AGENTS



FOAMTECH

AUTOMATIC FIRE SUPPRESSION SYSTEMS
KITCHEN FIRE SUPPRESSION SYSTEM



PRE ENGINEERED FIRE SUPPRESSION SYSTEMS

Introducing **FOAMTECH**®'s swift response pre-engineered Fire Suppression Systems, a dynamic fire suppression solution which combines advanced technology with functional simplicity to keep what's precious and safe. **FOAMTECH**® Pre Engineered Fire Suppression Systems protect operation specific critical assets and equipment's from fire. Our systems are pre-engineered, self-contained, stand alone and require no power for activation.

The most ground breaking feature of the system is the specially designed heat-sensitive pneumatic polymer detection tubing. It is connected at one end to a **FOAMTECH**® extinguishing agent container, while the rest of it runs unobtrusively throughout the area at risk. When the flame comes in contact with the heat-sensitive tubing and reaches a temperature of 100°C to 138°C, the tubing bursts open at that exact spot and forms a miniature nozzle. The pneumatic mechanism triggers the valve of the extinguisher and sprays the extinguishing agent out of the tube directly onto the flame, annihilating the fire instantaneously.



PRODUCT FEATURES



APPLICATION

Works on class A, B, C fires and electrical Panel fires. Effective on a wide range of flammable and combustible materials.



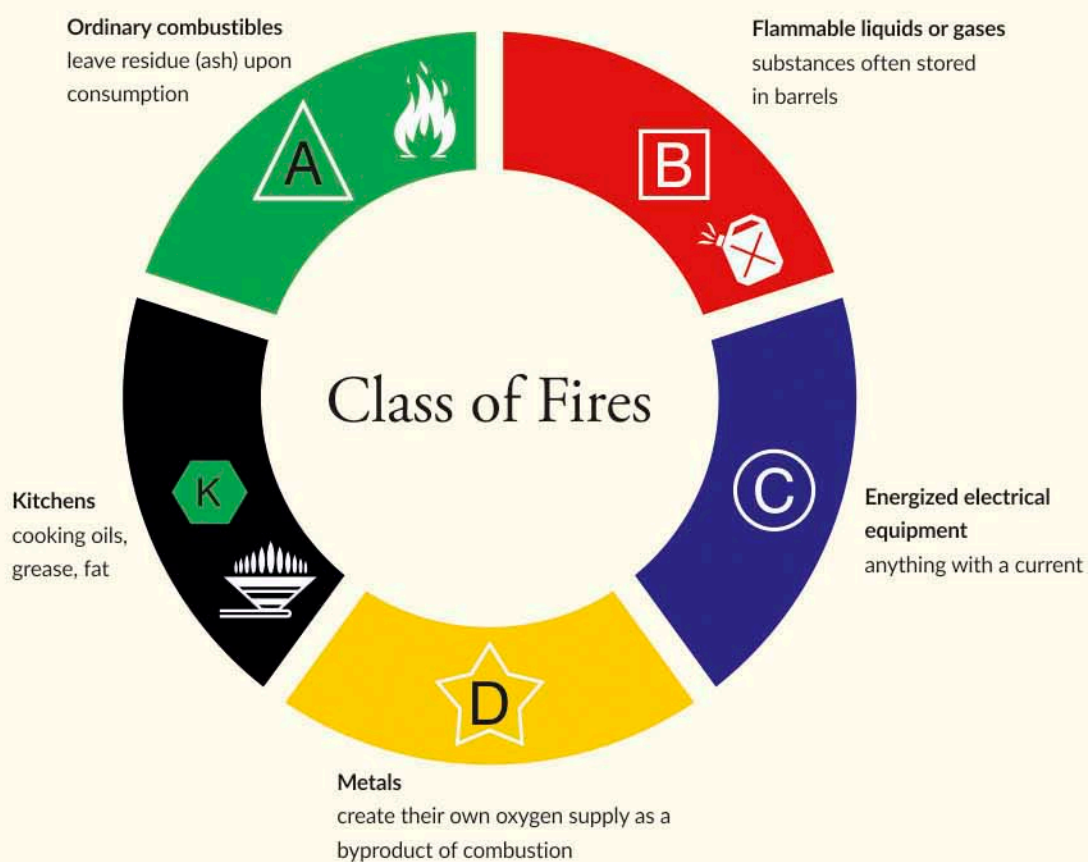
PNEUMATICALLY OPERATED

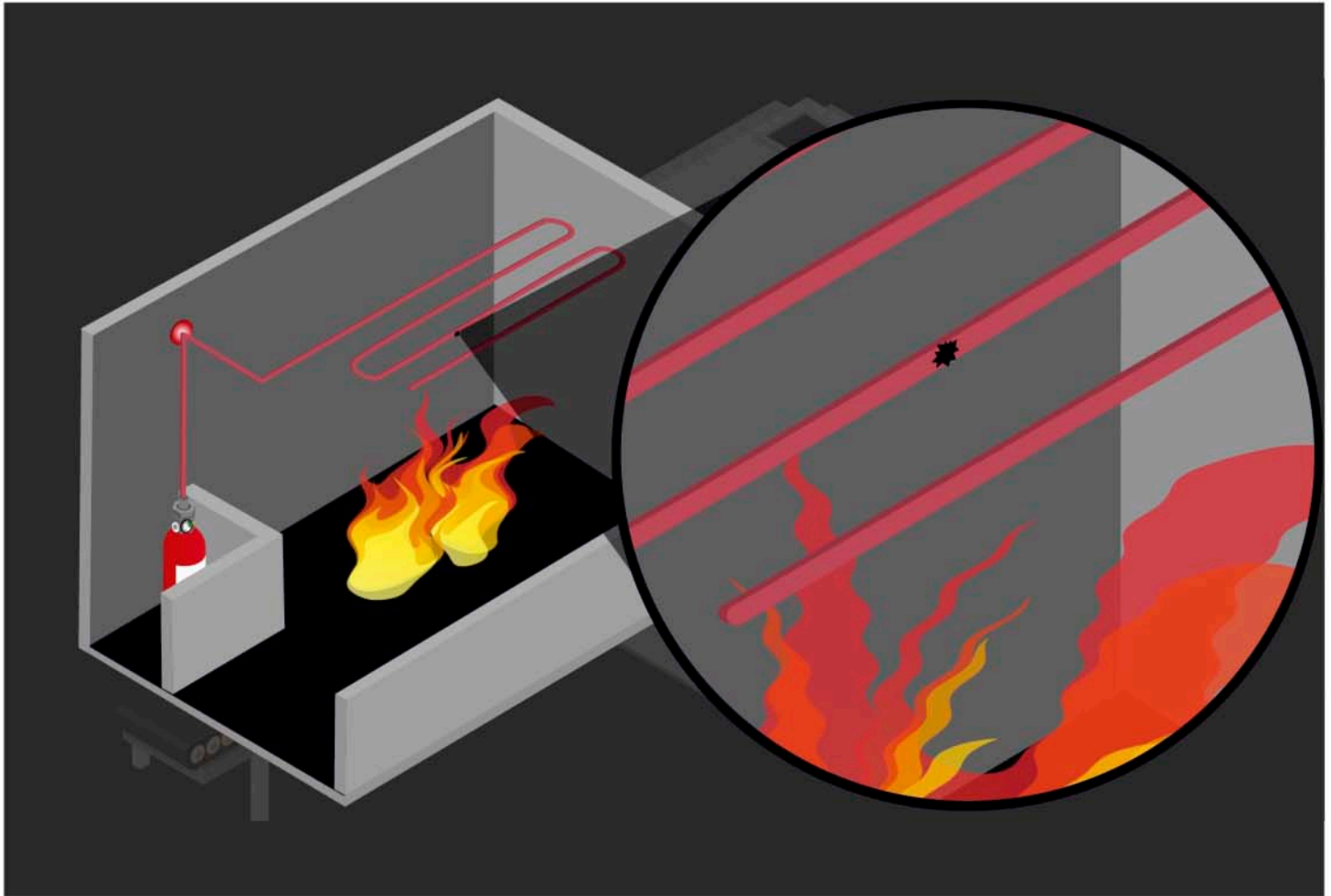
Does not require any power supply and will function normally in the event of a power outage, 24 Hrs protection.



ELECTRONICS-FRIENDLY

Shown to be electrically non-conductive and is safe for electrically charged equipment, FK 5-1-12/HFC227ea is kinder on electronics than the majority of extinguishing agent available in the market.





MAJOR SYSTEM COMPONENTS

FOAMTECH® pre-engineered fire suppression systems comprise of the following major components:

- Cylinder/ Valve assembly (DLP, ILP, IHP, DHP)
- Cylinder Mounting Bracket
- Pressure switch, CE/UL
- End plug, Tee
- Nozzles
- Master Control Unit (MCU) / AV Alarm
- Connectors
- Fire Detection Tube (FDT)

RIGHT CHOICE OF AGENTS

FOAMTECH® pre-engineered & Room flooding fire suppression systems are compatible with most commercially available fire suppression agents, including:

- HFC 227ea / HFC 236fa / FE 36
- CO₂
- FK 5-1-12 (NOVEC)
- Dry Chemical Powder (ABC, BC, D)
- Inert Systems : IG 541, IG 100, IG 55 (150/200/300 bar)
- Clean Agent Room Flooding System FK 5-1-12, HFC 227ea (25/42/50 bar)



APPLICATIONS



ELECTRICAL PANEL CABINETS, SERVER RACKS & ROOMS

LT & HT Switchgear Panels, Capacitor Panels, Server racks in Data Centres, PLC & process automation control cabinets; critical data processing equipment; UPS cabinets; medical equipment; switchgears, HVAC/HT Panels, Escalator Panels



CNC /EDM MACHINES, FUME HOODS, TRANSFORMER ENCLOSURE

Enclosed automated milling machines; EDM machines; robotic welding machines; plastic injection moulding machines, Fume Hoods, Walking fume hoods,

FIRE TRIANGLE



VERTICALS

AIRPORTS • METRO RAIL • TELECOM • BUILDING
AUTOMOTIVE • OIL & GAS • PHARMACEUTICAL INDUSTRIES
MFG. PLANTS • MINING • MARINE • CONTAINER
DEPOT • POWER • RENEWABLE • ENERGY • CNC/EDM M/C



THE **FOAMTECH**[®] CUTTING EDGE ADVANTAGE

- Reliable, 24 x7 Automatic Fire Detection & Protection for equipment and data against Fires.
- Clean Agent Cylinder are welded/seamless & made of High-Grade Aluminium in accordance with the requirements of the relevant PESO/CCOE and ISO standards and carry PESO and CE/UL approval.
- The Valve assembly with Next Gen Isolation Valve equipped with a DLP/ILP valve, with 3 separate ports for- 1x port for mounting/ bonding pressure switch, 1x port for Schrader adaptor with removable pressure gauge to monitor container pressure, and 1 x port for optional Pressure Relief device PRD).
- **Multiple Detection points-** **FOAMTECH**[®] Fire Detection Tube (FDT) which is UL listed acts as a Linear Pneumatic Heat detector can detect fire throughout its installed length.
- No "False Alarm" or Discharges, **FOAMTECH**[®] systems only activate in the event of an actual fire/heat impingement.
- **Environmentally Friendly** - Low Pressure systems utilizing certified Clean Agents is not harmful to equipment the environment.
- **Interface Options** - **FOAMTECH**[®] System comes with various options to initiate activities like annunciation, shut on or shut off Power supply, ventilation, and interface and monitoring through Fire Alarm Panel BMS, SCADA etc.
- **Low Maintenance** - **FOAMTECH**[®] systems do not interfere with installation or maintenance of equipment and can also be retrofitted to existing equipment's. Cost Effective Service- can be quickly serviced and recharged after a fire incidence.

SYSTEM RANGE

FIRE MINDER Automatic Pre-Engineered Panel Protection System



DIRECT LOW PRESSURE

DLP CLEAN AGENT SYSTEM UNIT

PRODUCT OVERVIEW & PRINCIPLE OF OPERATION

FOAMTECH® DLP- Direct Low-Pressure Clean Agent Systems are primarily a Pre-Engineered Automatic Fire detection and suppression System.

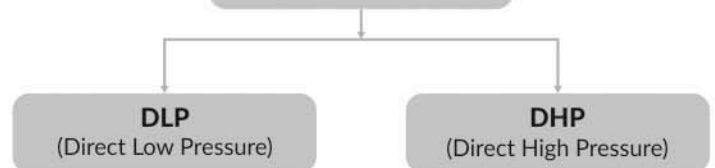
The **FOAMTECH®** Linear Pneumatic Fire Detection Tubing (LP-FDT) is installed and connected to DLP Valve and routed throughout the protected hazard area/enclosure.

The clean agent under pressure, in the cylinder then flows out through the burst point, distributing the clean agent through the protected enclosure.

The primary function of Pneumatic Fire Detection Tube (under pressure) is to detect heat/fire and activate the valve for discharge of the agent.



DIRECT SYSTEM



INDIRECT LOW PRESSURE

ILP CLEAN AGENT FK5-1-12 SYSTEM UNIT

PRODUCT OVERVIEW & PRINCIPLE OF OPERATION

FOAMTECH® ILP- Indirect Release Low-Pressure Clean Agent Systems are primarily a Pre-Engineered Automatic Fire detection and suppression System.

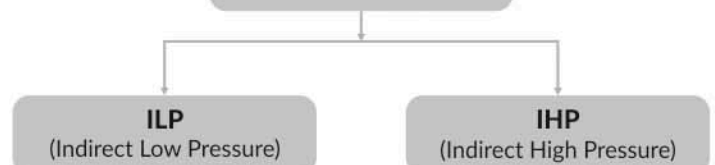
The **FOAMTECH®** Linear Pneumatic Fire Detection Tubing (LP-FDT) is installed and connected to ILP Valve and routed throughout the protected hazard area/enclosure.

On rupture due to loss of pressure in the tube connected to the valve.

The primary function of Linear Pneumatic Fire Detection Tube (under pressure) is to detect heat/fire and activate the valve for discharge.



INDIRECT SYSTEM





TOTAL FLOODING SYSTEM

FOAMTECH® Total Flooding System is a fixed suppression system which is arranged to automatically discharge a predetermined concentration of agent into an enclosed space for the purpose of fire extinguishment or control. Each system is custom engineered to quickly suppress fires while eliminating agent cleanup and minimizing the downtime that can be associated with other agent types.



CHOICE OF AGENTS

FK 5-1-12, HFC 227EA (FM 200) / CO2
Optional Gases

CHOICE OF INERT GAS

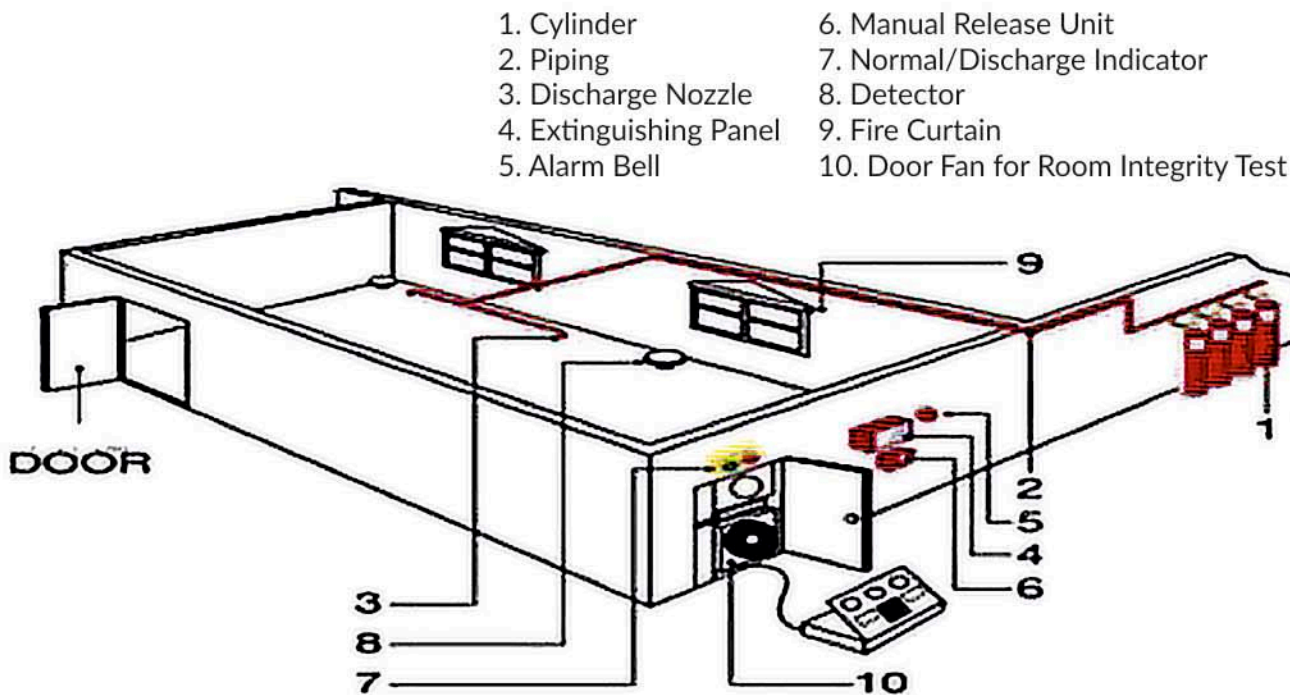
Inert System IG 541, IG 100, IG 55
Designed System 200/300 Bar

FEATURES

- Safe for electrical/electronic equipment
- Environmental Friendliness
- 24 x 7 protection with design flexibility
- Zero or minimum downtime/cleanup
- Wide acceptance

SERVICES

- Analysis of fire hazard
- System design and support
- Installation and service



CERTIFICATION





Kitchen Fire Suppression System FOR RESTAURANTS & HOSPITALITY



Knock Down Kitchen Fires

Foamtech Antifire Kitchen Fire Suppression System suppress fire fast as it uses dual agent that is our EN approved wet chemical along with water to suppress the fire of oils & greases in commercial kitchen.





FOAMTECH[®] AUTOMATIC PRE-ENGINEERED KITCHEN FIRE SUPPRESSION

Risk of fire hazard proves to be very dangerous in the modern Electrical & Gas Operated Domestic & Commercial Kitchens. Fire in kitchen is generally due to burning of oil. However oil & fats burn at relatively high temperature and hence once they catch fire, extinguishing them is very difficult.

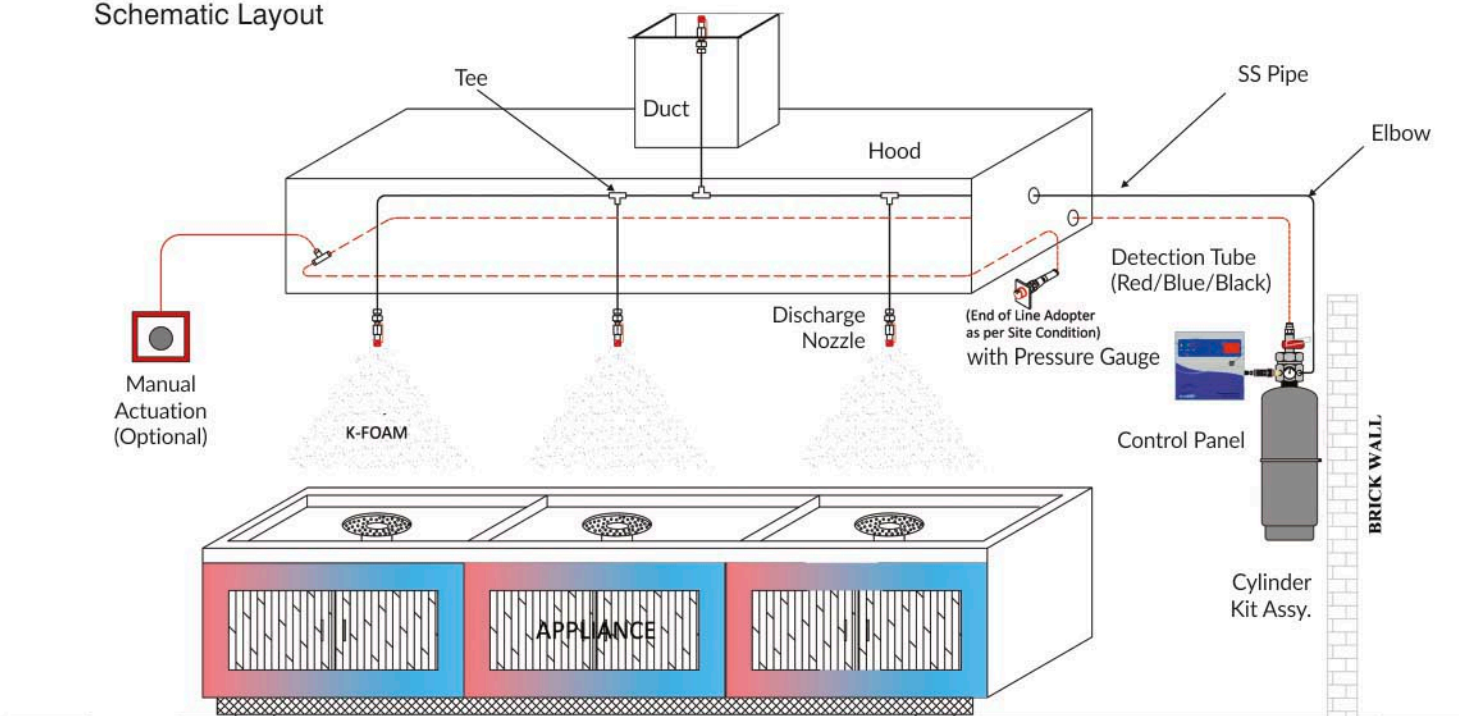
With the aim to protect modern kitchens from such risks FOAMTECH has developed Foamtech Automatic Pre Engineered Fire Suppression system according to the NFPA & UL Standards. It can be widely used in the Kitchens of the Hotels, Institutes, Restaurants, Schools, Hospital, Gym, Banquet etc.

How the System Works?

The Hood is covered with the pneumatic Heat Sensing Tube (HST) Red / Blue / Black. On coming with contact with fire, HST burst open at a pre-determined temperature.

This leads to a drop of pressure which signals the indirect valve thereby activating the system. The strategically placed nozzles disperses the extinguishing agent evenly over the entire cook top area ensuring no blind spots during firefighting.

Schematic Layout



Key Components of the System

- Cylinder & Valve Assembly
- Extinguishing Agent
- Heat Sensing Detection Tube
- Master Control Unit (MCU)
- End of line adopter with pressure gauge
- Discharge nozzle
- Tee, Elbow, Connectors
- Discharge piping SS

Applications: Small & Large Kitchens

- Hotels
- Restaurants
- Hospitals
- Schools
- Gym
- Banquet
- Public Institutions... etc.

Fire Extinguishing Agent

EN Approved FOAMER Brand Kitchen fire chemical K type foam

Listings and Approvals

- CE Certified Foamtech Kitchen Fire Suppression System
- EN certificated Chemical K Foam
- UL Certified for the detection tube





• SERVING WORLDWIDE •



YOUR DEDICATED FIRE FIGHTER

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APPROVALS

- UL Listed **FOAMTECH®** Fire Detection Tube
- UL/ FM/ EN approved Fire Suppression Agents
- Filled in UL Listed & PESO approved fill plant
- CE approved cylinders, DOT, UL
- Overall System is CE Approved / LPCB
- The system is in compliance to NFPA: 2001
(Edition 2018- latest amendment)



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