



FLAME Protect

TAKE CONTROL OF FIRE BEFORE IT STARTS



Fire protection equipment manufacturer and supplier

Preferred choice for
customers from
20+ industries



PRODUCT BROCHURE

DIRECT & IN-DIRECT TUBE BASED MICRO
ENVIRONMENT FIRE SUPPERSSION SYSTEM



Our specialty lies in active fire protection, and we have world-class technology and produce tailor made firefighting systems.



About Us

We are a team of fire safety professionals at FLAMEProtect Technologies, with 25 years of combined experience in the firefighting industry.

We offer a range of high-quality products and services that are tailored to meet their specific requirements. Our goal is to ensure maximum protection for our clients' assets and personnel while minimizing downtime and costs.

“

We have collaborated with renowned international original equipment manufacturers (OEMs) to develop our top-quality products.

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Mission

Flameprotect aims to achieve **global excellence** in the fire protection industry by creating **top-quality fire safety products** that are both **environmentally friendly** and **economically feasible**, with the goal of promoting **sustainability**.



Vision

Our commitment is to cultivate and advance **innovative fire protection solutions** that can **safeguard** valuable assets and precious lives from unexpected disasters. We aim to expand our reach in the international market and provide an **unparalleled customer experience**.

Struggling With Frequent Electrical Short Circuits?

Malfunction in Electrical Infrastructure?

**ARE YOU WORRIED ABOUT FIRE
SAFETY DUE TO FAILURE OF**

Electrical Panels
UPS Systems
Battery Racks
Power Generator
Industrial Machinery

IN

Offices
Production Houses
Shops
Ware Houses
Godowns

THE BEST-IN-CLASS INDUSTRIAL SOLUTION

FLAMEProtect Quick Suppression System



**Instant
Detection**



**Quick
Suppression**



**Alarm
Generation**



**Tube Based
Clean Agent
Suppression**

FP-QSS

IS THE WAY OF INSTANT DETECTION AND SUPPRESSION OF HIDDEN FIRE

**FLAME
PROTECT
QUICK
SUPPRESSION
SYSTEM**



DLP (Direct Low Pressure) System

ILP (In-direct Low Pressure) System

State of the Art Technology

Environment & Equipment Friendly

Linear Heat Sensing Tubing (HST)

SS-304 L Stainless Steel Cylinder

Clean Agent used for suppression

Simultaneous Suppression & Alarm Generation

**FLAME
PROTECT
QUICK
SUPPRESSION
SYSTEM**

FP-QSS

BEST IN CLASS SOLUTION



- ✓ Pneumatic based Polyamide HST
- ✓ Ease of Reach in Micro Environment / Compartments
- ✓ Pin Pointed Fire Detection @ 130- 160 Deg.C.
- ✓ Self-Rupture creating miniaturized nozzle to propel the agent directly on fire
- ✓ Instant dousing of Fire at source

- ✓ Sealing chances of Inferno stage
- ✓ Clean Agent applicable on all classes of Fire
- ✓ Pneumatic Activation Principle
- ✓ Self-Activation & No third-party source
- ✓ 24 x 7 on self-testing mode
- ✓ Alarm generation in case of pressure drop



FLAME PROTECT DIRECT LOW PRESSURE QUICK SUPPRESSION SYSTEM

The Flame Protect In-Direct Low-Pressure (ILP) & Direct Low-Pressure (DLP) Quick Suppression System is an ideal solution in case of fire in a Multi Compartment Panel, whether small or large.

The Flame Protect Direct and Indirect Low-Pressure Quick Suppression System is available in multiple variants as below:

DIRECT LOW-PRESSURE FP-QSS

1 kg

2 kgs

3 kgs

6 kgs

9 kgs

12 kgs

15 kgs

18 kgs

4 kgs

6 kgs

9 kgs

22.5
kgs

25 kgs

27.5
kgs

35 kgs

45 kgs

INDIRECT LOW-PRESSURE FP-QSS

Agent Used:

HFC230fa

HFC227ea

FK-5-1-12
Clean Agent

MAP90
Powder



FLAME PROTECT CERTIFICATIONS AND CLIENTS

CERTIFICATIONS

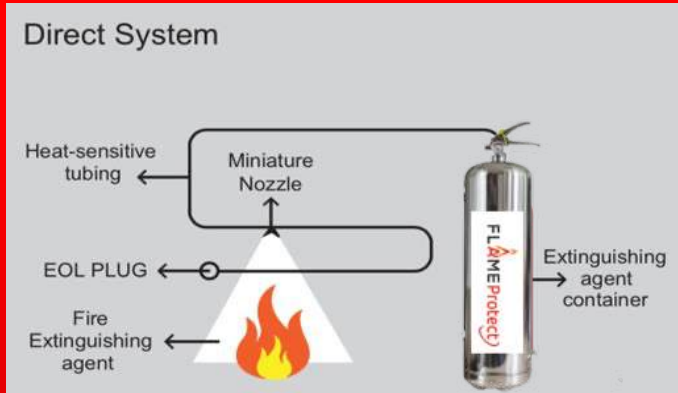


OUR ESTEEMED CLIENTS

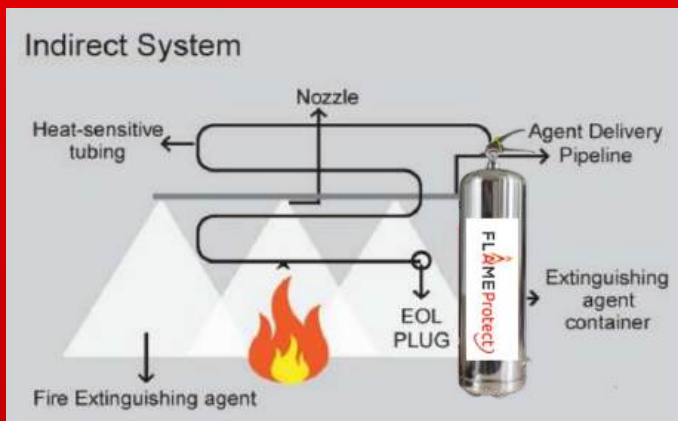


ENGINEERED SOLUTION

Complete Peace Of Mind



The Flame Protect Quick Suppression System (FP-QSS) operates on two technologies — Direct and Indirect: In the Direct System, heat-sensitive tubing works on a dual action mode, i.e. bursting and creating a nozzle upon heating or getting in touch with direct flame due to the tiny fire and delivering the extinguishing agent from the miniature nozzle directly on the fire to achieve total extinction. This is ideal solution for fire risks in panels having multiple compartments.



The Indirect System, works indirectly, the heat sensitive tube works as a detection device and the extinguishing agent is delivered from the secondary pipe line fitted with the fixed nozzles. This is ideal solution for the cabinets or machinery having large compartments, where a total flooding like scenario is required to combat the fire, this solution is right fit for big UPS, Server Racks, CNC Machines, Generator Canopy, Bus engines, Earth Movers engines, Enclosed transformers etc.

SALIENT FEATURES OF FLAMEPROTECT QUICK SUPPRESSION SYSTEM



Built to Flame Protect's high quality standards, which follow international quality standards



Entirely self-actuated, do not need any third-party power supply to function, it works 24x7 without fail



Quick and automatic activation, no need for human intervention. the system is ever- ready in case of any fire scenario.



Uses Clean agent, Powder of other extinguishing agents depending on the requirement.



Flexible tubing allows protection in areas that are difficult to access for any other means of detection.



Simple design, can be installed quickly within few hours



European quality ensures it can withstand even harsh conditions where other types of detection systems might be found inadequate.



The FLAMEProtect EXPERTS

Design Team

In matters of saving lives, there is no room for compromise. Even a small mistake can lead to system failure. A poorly designed system offers no protection at all. Therefore, it is crucial to adhere to established design standards based on national and international guidelines.

The Flame Protect Design Cell plays a vital role in this process. Experts conduct a thorough survey of the area or equipment to be protected, using CAD layouts, blueprints, and photographs. With these inputs, a comprehensive solution is engineered, whether it be a Direct or Indirect system. This solution determines the exact tube lengths, pipe and fittings, and extinguishing agent capacity required to meet the flooding factor specified in reputable standards like LPS1666, UL, and NFPA.



Installation Team

Once the System Design is approved by the customer, the Flame Protect Trained & Certified installers, follows the system design layout and completes the installation.

Audit Team

Post the installation is completed, a complete handover document is generated, the Quality control Checklists are filled as per ISO 9001 process, Photograph and Video is taken of the various vital installation points and forwarded to the Flame Product Audit team, the audit team then reviews the complete installation and certifies the same. In case of any error, the same is corrected and re-certified by the Auditors.



PRODUCTS

FLAMEProtect Mild Steel Cylinder for Fire Suppression System

Capacity	2 Kg to 25 Kg
Packaging Type	Wooden
Usage/Application	Industrial/Residential/Commercial
Agent	FK-5-1-12/CO2/Wet Chemical/MAP/HFC
Material	Mild Steel
Working Pressure	15-18 Bar
Temperature	-20 to 60 degree C

FLAMEProtect Stainless Steel Cylinder for Fire Suppression System

Capacity	2 Kg to 25 Kg
Packaging Type	Wooden
Usage/Application	Industrial/Residential/Commercial
Agent	FK-5-1-12/CO2/Wet Chemical/MAP/HFC
Material	Stainless Steel 304L
Working Pressure	15-18 Bar
Temperature	-20 to 60 degree C
Finishing	Polished



FLAMEProtect **Direct Low Pressure (DLP) Valve** for Fire Suppression System

Material	Stainless Steel/Brass
Weight	570 Grams
Tubing Outlet	Single/Double
Burst Pressure	28 bar
Working Pressure	15-18 Bar
Model Name/Number	FP1002B/FP1003C
Pressure Gauge	0 to 28 Bar



FLAMEProtect **Heat Sensing Tube** for Automatic Fire Suppression System

Usage/Application	Micro-Environment
Outer Diameter	6 mm
Inner Diameter	4 mm
Layer	Double
Protection	UV
Color	Red, Black
Material	HR Grade Polyamide
Max Temperature Resistance	154 degree C
Working Temperature	120 -130 degree C
Unit Length	100 MTR



FLAMEProtect **Health Monitoring Panel** for Fire Suppression System

Materials	ABS Body
Weight	900 Grams
Provision	Normally Open and Normally Closed
Input Voltage	220 V
Battery Backup Provision	Yes
Model	Health Monitoring Panel
Zone	2,4 & 8
Relay	On Board Potential Free



FLAMEProtect **T-connectors** for Fire Suppression System

Material	Stainless Steel/Brass
Weight	35 Grams
Tubing Outlet	Triple
Burst Pressure	28 Bar
Working Pressure	15-18 Bar
Model Name/Number	FP1006F



FLAMEProtect **End of Line Adapter** for Fire Suppression System

Material	Stainless Steel/Brass
Weight	73 Grams
Tubing Outlet	Single
Burst Pressure	28 Bar
Working Pressure	15-18 Bar
Model Name/Number	FP1001A
Pressure Gauge	0 to 28 Bar



FLAMEProtect **End of Line Plug** for Fire Suppression System

Material	Stainless Steel/Brass
Weight	21 Grams
Tubing Outlet	Single to close the loop
Burst Pressure	28 bar
Working Pressure	15 - 18 Bar
Model Name/Number	FP1007G



FLAMEProtect **Master Control Unit** for Fire Suppression System

Material	Mild Steel
Weight	1530 Grams
Provision	Normally Open and Normally Closed
Input Voltage	220 Volt (v)
Battery Backup	No
Model	Master Control Unit
Zone	1
Relay	On Board Potential Free



FLAMEProtect **Ceiling Mounted Type Fire Extinguisher**

Materials	Stainless Steel 304L
Weight	Filled Weight 7 Kg Approx.
Operating Pressure	10-15 Bar
Cylinder Hydro Pressure Test	35 Bar for 30 Seconds
Agent	FK-5-1-12/HFC/MAP
Area Coverage	5-8 m ³



SERVICES

We provide comprehensive **design and installation services** for custom fire suppression systems. Our team assesses the property, considers factors like budget and regulations, and designs a solution. Experienced technicians and engineers install the system using high-quality materials and techniques, while minimizing disruption. We ensure **compliance with safety standards and regulations**, conduct **testing**, and offer ongoing **maintenance and support**.

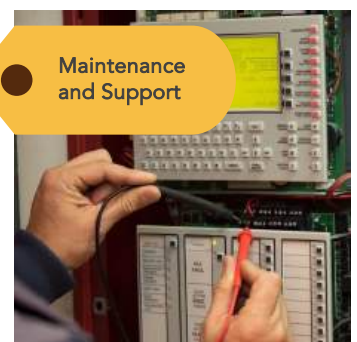
Our **services** offer peace of mind with a customized system that protects your property and personnel in case of fire.



● Design and Installation



● Testing and Commissioning



● Maintenance and Support

WHY CHOOSE FLAMEProtect?



Effective

The Flameprotect FK-5-1-12/Wet Chemical/CO2 based Fire Suppression System is highly effective at extinguishing various classes of fire by cooling the flames or removing the Oxygen from the fire spots.



Fast-Acting

Our fire suppression system quickly inhibits fires using a chemical process that extinguishes flames within seconds.



Economical

Our clean agent fire protection systems are efficient and lightweight, installed at ambient temperatures with guaranteed performance, providing an economical option for clients.



Recognized

Our products meet National building code and NFPA-2001 requirements and major components are approved by UL, NABL, CE, TPED, BIS, RoHS etc. Our eco-friendly system is filled into stainless steel cylinders.



Dynamic

At Flame Protect, we continuously enhance our customer focus and partnerships to provide a dynamic solution for your fire suppression needs.

APPLICATION AREAS

- Electric Panels
- Enclosed Battery Banks
- Networking/Switching racks
- CNC Machines
- Printing Press
- Heavy Transport Vehicles such as Airplanes, Ships & Cargo Trucks
- Mobile Tower Switching Areas
- Commercial Vehicles such as Cars, Buses & Trucks
- UPS Cabinets/SMPS/PI
- Server Racks
- Genset canopy
- Injection Molding machines
- Diagnostic Machines
- Industrial Equipment like forklifts, heavy machinery, Earthmovers
- Commercial Kitchen





THANK YOU

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