ELECTRICAL PANEL FIRE SUPPRESSION SYSTEMS

Stop the Fire Inside the Panel

A heat-sensing tube inside your electrical panel detects the fire and floods it with clean agent — in seconds, with no residue and no damage to equipment.

WHY IT MATTERS

Panel Fires Start Small. And Hidden.

110 °C
Tube bursts at about this heat, right at the hot spot

0 V
No electricity needed. Works even in a power failure

Zero
Residue. Clean agent is safe on live equipment

HOW IT WORKS

Self-Acting. No Power. No People.

1 Sense
Pressurised tube runs through every section of the panel.

2 Burst
Fire heat bursts the tube at the nearest point.

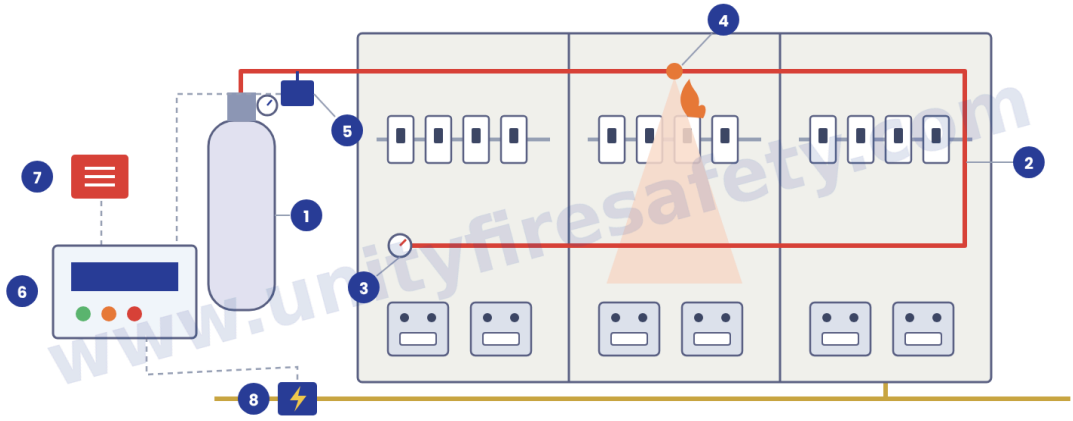
3 Discharge
Clean agent floods the section and kills the fire.

4 Alarm
Pressure switch triggers the hooter and alarm panel.

5 Isolate
Shunt trip cuts incoming power to the panel.

SYSTEM LAYOUT

One Tube. Every Panel Protected.



www.unityfiresafety.com

1 Cylinder with gauge
2 Heat detection tube
3 End-of-line gauge
4 Tube bursts at fire
5 Pressure switch
6 Fire alarm panel
7 Audio-visual alarm
8 Power shunt trip

WHERE WE INSTALL

Any Electrical Enclosure. Any Industry.

MCC & PCC Panels	APFC Panels	VFD & Drive Panels	DG & AMF Panels
UPS & Battery Racks	Server Racks	CNC Machines	Lift Control Panels

Components of the System

01 Agent Cylinder
With valve and gauge. 2, 4 or 6 kg.

02 Detection Tube
Detects the fire and discharges agent.

03 End-of-Line Gauge
Shows tube pressure. Healthy at a glance.

04 Pressure Switch
Signals a discharge or loss of pressure.

05 Monitoring Panel
Status lamps and relay outputs.

06 Audio-Visual Alarm
Hooter and flasher warn people nearby.

07 Shunt Trip Link
Trips the incoming breaker to cut power.

08 Fittings & Clips
T-fittings, end plugs and tube clips.

Tube-Based Clean Agent Suppression

Parameter	Specification
System type	Pre-engineered tube-based direct release system. Automatic, on duty 24 hours.
Agent	FK-5-1-12 clean agent; HFC-227ea on request. Non-conductive, leaves no residue, safe on live equipment.
Cylinder	2, 4 and 6 kg, sized to the largest panel section. Larger sizes on request.
Detection tube	Bursts at about 110–120 °C. Routed through every section; about one cylinder per 4 m of panel length.
Monitoring	End-of-line gauge, pressure switch and monitoring panel. Outputs for hooter, fire alarm panel and shunt trip.
Installation	Fitted inside existing panels in a planned shutdown. No major modification.
Service	Six-monthly inspection. After a discharge: replace tube, refill cylinder.

Cylinder size, quantity and tube length are finalised from the panel GA drawing or a site survey. Certifications are held by the manufacturer of the equipment supplied.

Size. Supply. Install. Service.

Free Sizing & Quote
Send the panel drawing or sizes. We return a panel-wise design sheet and quotation.

Supply & Installation
Fitted with our licensed partner agency during your planned shutdown.

Six-Monthly AMC
Pressure check and tube inspection twice a year, with a service record.

UNITY FIRE SAFETY

CONTACT

Chaitanya M. Sainkar
Proprietor, Unity Enterprises

+91 9156960605 · WhatsApp
unityfiresafe@gmail.com
www.unityfiresafety.com

Get a Panel-Wise Quote

OFFICE

B-211, Shoppers Orbit, Vishrantwadi, Pune — 411015.

Send the panel GA drawings — or just the length, height and depth of each panel — or call and we will visit. Design sheet and itemised quotation, with no obligation.