



**KANEX<sup>®</sup>**  
**TRANSFORMER**  
**FIRE**  
**SUPPRESSION**  
**SYSTEM**



# Electrical Transformer Fire Suppression System

As modern society takes uninterrupted electricity supply for granted, electrical utility providers are increasingly measured by the reliability of the infrastructure used to deliver power to consumers.

A typical 117/15.2-kV, 37/50/62.5-MVA Power Transformer can contain approximately 37855 litre of oil. Larger transformers can contain much more oil.

Since oil is a combustible liquid, when a transformer fault or failure occurs, the transformer itself can provide both the ignition source, and fuel for a fire



## The solution

Kanex transformer suppressions systems takes the fire detection and suppression inside of the hazard, a growing fire can be caught quickly, preventing the spread of fire to near by areas that would require firefighters or water sprinklers to extinguish.

This system use UL listed continuous linear sensor tube that reliably detects and actuates release of the extinguishing agent using pneumatic technology. It is more flexible, space efficient and cost effective.

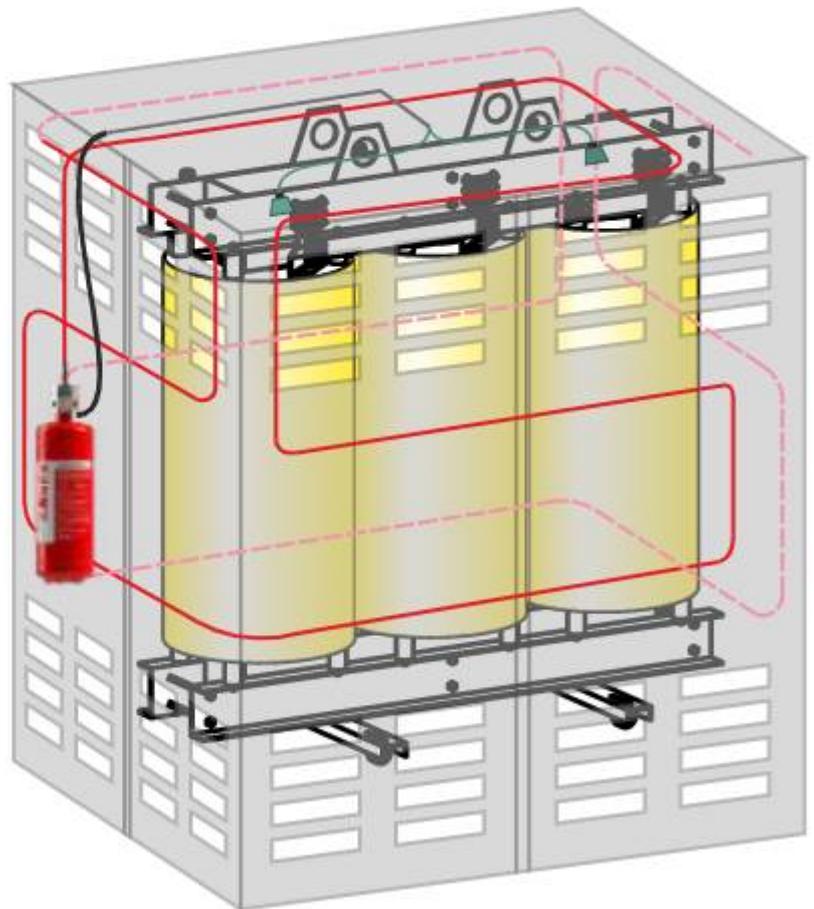
## How it works?

The most prominent feature of KANEX automatic panel suppression system is the specially designed heat-sensitive pneumatic polymer tubing.

Extinguishing agent container is connected to one end of tube, while the rest of sensor tube easily be installed directly inside machine and enclosure. When the flame comes in contact with the heat-sensitive tubing and reaches a temperature of 110°C (appro). The heat that immediately precedes or accompanies a fire causes the pressurized sensor tube to burst at the hottest spot.

The sudden tube depressurization actuates the special valve and floods the enclosed area with extinguishing agent. The fire is quickly suppressed just moments after it began. Hence minimizing damage and repair downtime.

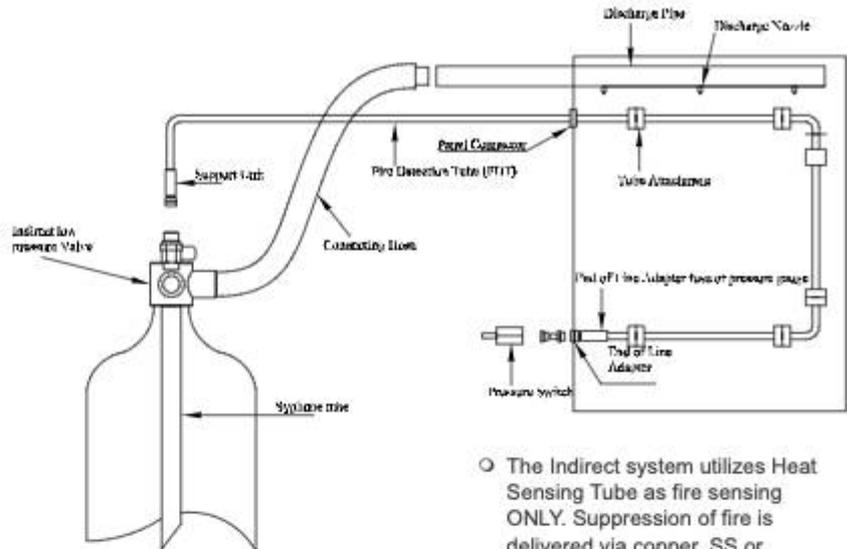
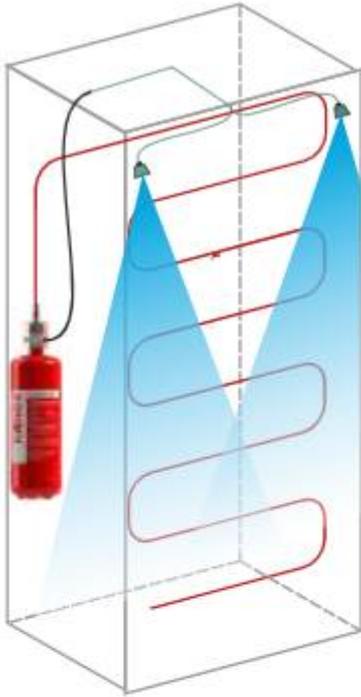
This most innovative technology makes this system entirely self-activated. It requires no power and human interference specially applicable for "micro-environments", and where the fire hazard likely to be in enclosed space. or areas where the fire hazard is likely to be in an enclosed space.



## Features

- No external power source required. So protection is uninterrupted (24x7).
- Easy to maintain, operational readiness, expansion flexibility.
- 100% effective, automatic & full execution of system, so it doesn't required any human involvement
- Quick response system & it also extinguishes fire very quickly.

## IN-DIRECT LOW PRESSURE



- The Indirect system utilizes Heat Sensing Tube as fire sensing ONLY. Suppression of fire is delivered via copper, SS or Braided pipe.
- The nearest surface of Heat Sensing Tube bursts due to heating it actuates the valve & agent discharges through strategically placed nozzles within protected enclosure.

## CERTIFICATION



## SYSTEM ADVANTAGES

- Fast, reliable fire detection
- Clean agents — safe for people, equipment and the environment, no cleanup required
- Installs in new or existing cabinets
- No interference with installation or maintenance of equipment
- Kanex systems do not affect IP ratings
- Kanex Detection Tubing is electrically non-conductive
- Kanex Detection Tubing follows cable routes to penetrate cabinets (no need to drill holes)
- Kanex Detection Tubing allows suppression directly at source of fire — unlike other systems that have to build up an extinguishing concentration which can be difficult with internal airtight sub enclosures
- KATS can be integrated with fire control systems
- KATS requires no power and is completely self contained
- KATS is accepted / endorsed by leading MCC and VFD panel manufacturers

## APPLICATIONS

- Electrical and electronic cabinets.
- Telecommunication areas.
- Data Processing areas and cabinets.
- Other high value assets.
- Laboratory fume / exhaust cabinets
- Pump enclosures
- UPS units
- Flammable Chemicals storage cabinets
- Generator Enclosures
- Transformer Cabinets
- Computer / Data Storage Cabinets
- CNC & VMC Machining centers

**KANEX**<sup>®</sup>

Designed, Manufactured & Marketed by:  
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