



# KANEX<sup>®</sup>

**SERVER & COMMUNICATION  
ENCLOSURE**

**FIRE  
SUPPRESSION  
SYSTEM**



# Electrical Enclosure tube based fire suppression system

The risk of a fire is very real in today's hot-running and overcrowded server racks and closets. A minor server fire can cost a company much money in lost revenues and productivity.

To combat the threat of server and telecommunications equipment fires, installation of an overhead automatic sprinkler system is equipped. In many cases the collateral damage from water sprinklers is far more destructive than the fire itself.

## The solution

KANEX automatic fire detection and suppression systems can effectively protect entire server and telecommunications rooms without the collateral damage caused by water sprinklers.

Using this unique, pneumatic Fire Detection Tubing (FDT), and "clean" agents such as HFC 236fa, Chemours FE 36, HFC 227ea, Chemours FM-200, FK 5-1-12 and 3M™ Novec™ 1230 Fluid. This system will quickly and reliably detect and suppress a fire before it can spread to adjacent equipment or activate an overhead sprinkler system. And in addition to this Total Flooding Systems provide a second line of defence for those fires originating outside of the server rack, further reducing or eliminating the risk of equipment damage and downtime.



## 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 (approx). The heat that immediately precedes or accompanies a fire causes the pressurized sensor tube to burst at the hottest spot.



This system does not occupy valuable rack space and FDT can be run unobtrusively across the top of the rack

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.



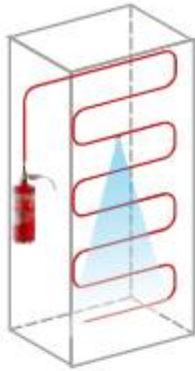
## Features

- 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 require any human involvement
- Quick response system & it also extinguishes fire very quickly.

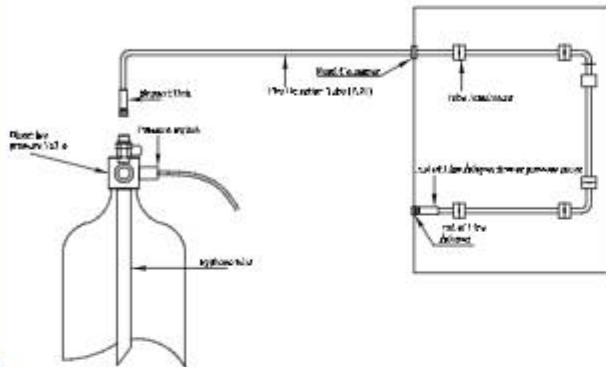
## DIRECT LOW PRESSURE

## LINE DIAGRAM

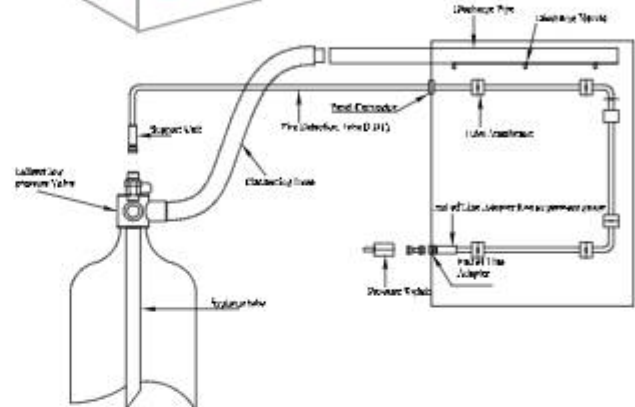
## IN-DIRECT LOW PRESSURE



- The direct system utilizes Heat Sensing Tube as both fire sensing & suppression of fire by delivering the agent.
- The nearest surface of Heat Sensing Tube bursts due to heating & it forms effective discharge nozzle.
- Due to which pressure drops in Heat Sensing Tube & entire content of cylinder discharges.



- 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 protection without the damaging side-effects of water
- Suppresses a fire in seconds, reducing equipment damage and downtime
- Easy to install in any new or existing server rack or closet and requires no power to operate
- Clean suppression agents require no post-discharge cleanup
- Will not harm people, equipment or the environment
- System options expand peripheral capabilities
- Clean agents will not harm electronic equipment or magnetic media and are OK to use on energized equipment
- Does not interfere with installation or maintenance of equipment
- Meets NFPA 75 requirements for computer installations needing fire protection
- KATS requires no power and is completely self contained





Designed, Manufactured & Marketed by:  
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An ISO 9001:2008 Certified Company

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