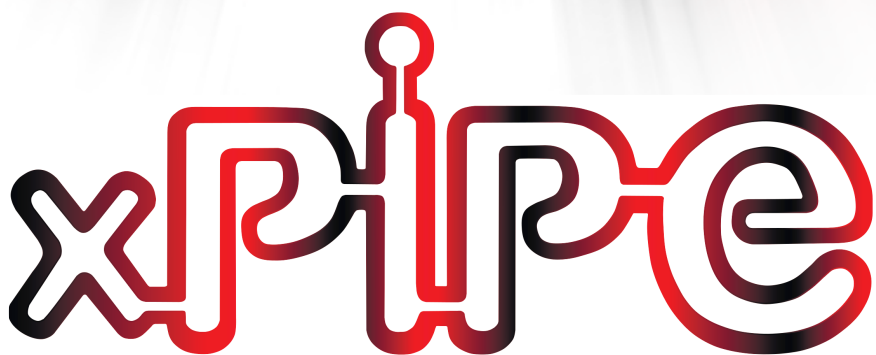




Intellectual fire protection

The problem to be solved

One of the most frequent causes of a fire is electrical failure. Every day because of this, buildings are destroyed, property is damaged and people are killed. The quickest possible elimination of a fire before it grew into a large fire stills to be the most urgent task of fire protection.

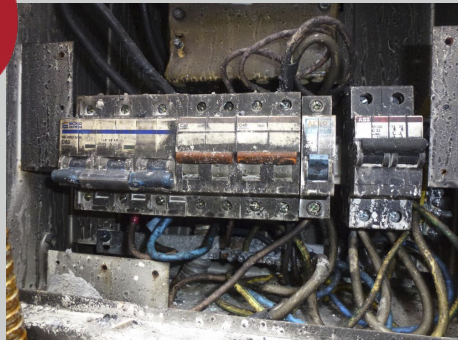
Statistics of fire accident (Russia, 2016)

**40 634 fires caued by electrical equipment
mulfunction (28% of the total fires)**

1 875 humans died

15 000 buildings destroyed

8,07 billions rubbles direct loss





General description

xPIPE automatic fire suppression system (AFSS) are designed for automatic fire detection and elimination in an enclosed electrical power and communication equipment with a volume of 50 to 2000 liters.

xPIPE AFSS is consist of a composite balloon with fire supresion agent and a fusible sensor pipe.



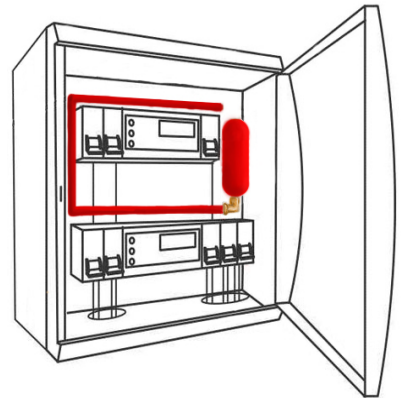
Working principals

The balloon is installed inside an electric equipment case and the sensor pipe is traced along the most powerfull and fire ganger places.

In case of local fire the sensor pipe is melted and release fire suppression agent.

It gets out oxygen, lowers down a temperature and inhibits the fire directly in the ignition point.

Finally, it leads to quick fire suppression.



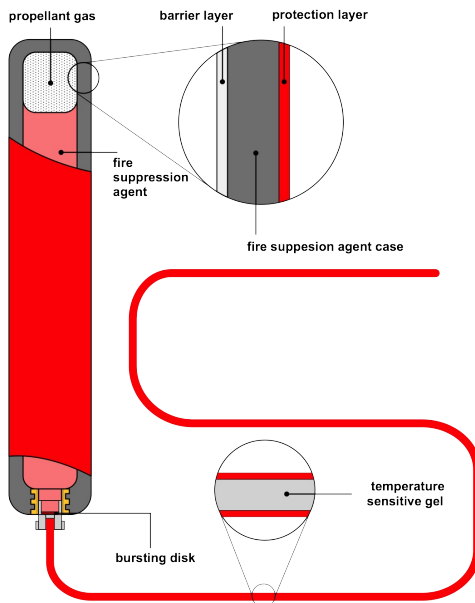
Safety

- ⦿ Does not contain organic solvents
- ⦿ Does not contain toxic components
- ⦿ Fire suppression agent is chemical and corrosive inert, safe for metals and plastics
- ⦿ No cabinets cleaning is needed after fire suppression
- ⦿ Fire suppression agent case is explosion proof

Advantages

- Direct protection of the most fire danger places (power supplies, fuses, relays, etc)
- Fast fire detection and suppression
- Both automatic and autonomous way of working
- Compatible with regular fire alarming and suppression systems
- Safe for electronics and optics
- Optionally equipped with level/release sensor and wireless module
- Does not need regular service
- Pure gas suppression

xPIPE Schematic diagram



Application area

Protection of enclosed power and communication electrical equipment:

- electrical control cabinets and DBs
- transformers and relays
- power supply units
- voltage transformers
- server cabinets and ATC

General technical parameters

	xPipe 50	xPipe 100	xPipe 300	xPipe 500	xPipe 1K	xPipe 2K
Protected volume, l	50	100	300	500	1000	2000
Fire agent storage size, mm	50x20x20	100x25x25	185x32x32	200x40x40	300x40x40	400x50x50
Sensor pipe length, mm	500	1000	1500	2000	2500	3000
Minimal binding radius for sensor pipe, mm	40					
Weight, g	120	150	200	300	450	950
Fire suppression media	Proprietary hydrofluorocarbon (HFC) mixture, Novec 1230					
Working temperature, °C	- 50...+65					
Operation temperature, °C	125-145					
Case material	Crosslinked polyethylene PEX, PP, PA					

Package Cardboard box

Service life 60 months from the date of production

Manufacturer: Intellectual Systems, LLC

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