



HI-EX FOAM SYSTEM HOTFOAM™ SKUM

An innovative and proven
fire protection solution
for enclosed areas,
including tunnels,
aircraft hangars
and warehouses.



The **HotFoam™** system is the newest development in fire protection.

Because of its proven effectiveness and rapidity in fighting fire,
it is the most widely used solution in locations such as:

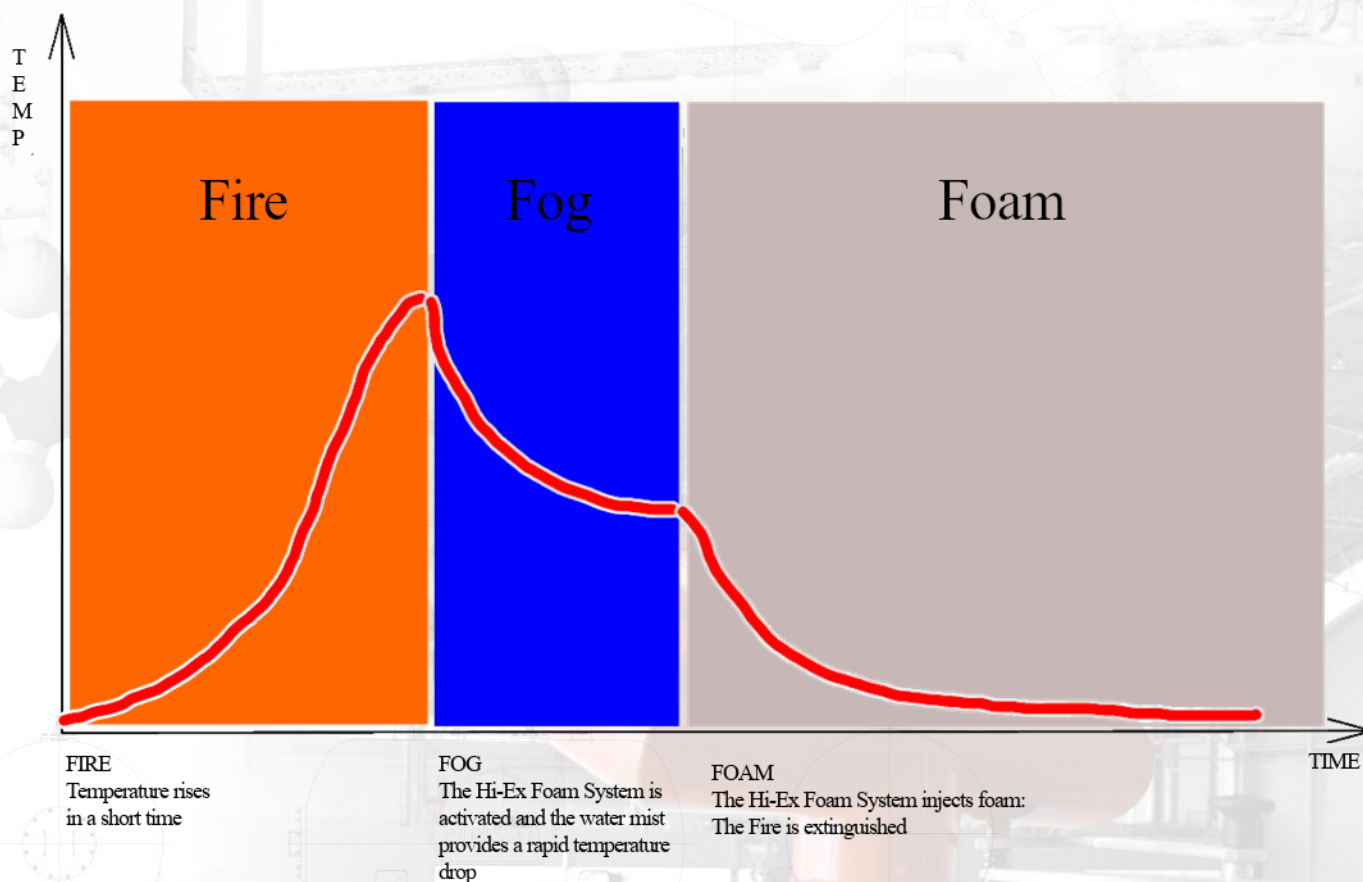
- warehouses,
- manufacturing facilities,
- aircraft hangars,
- engine rooms on board ships
- drilling platforms.

The major advantage of the **Hi-Ex Foam System**, in addition to efficiency, is the optimal reduction of consequential damages, which unfortunately occur with regular water installation.

Rev.1.0/2024

1. General Description

HotFoam™ effectively protects confined areas from most hazards, as it combines the advantages of conventional foam systems and the known extinguishing properties of water. The finely atomized fog that is produced immediately after its activation causes a rapid drop in temperature, which can already result in extinguishing the fire at this stage, as well as allowing evacuation. Then, in a short period of time (appropriately selected by the designer), the protected area is tightly covered with foam, which floods the flame. The foam film, unlike water, stays on the material, cutting off the supply of oxygen from the air, which prevents the combustion reaction from occurring, and also has an insulating effect on substances not covered by the fire, thanks to its low thermal conductivity. The small amount of solution leaking from light foam results in the fact that post-fire losses are much smaller than in the case of water-based systems.



2. Environmental impact

For many years, the most commonly installed fire extinguishing systems in areas where people could be present were halon systems. However, due to their high ozone-destroying potential under the Montreal Treaty, they were withdrawn from usage. At the moment, some of the fire foam agents recommended by environmental institutions are foams. Developed by **Foamax – Hi-Ex Foam System HotFoam™** is based on modern, environmentally friendly equipment. The amount of water required to extinguish a fire is minimal, making our solution also effective in cases of limited access to water and reducing the damage associated with potential leakage into the environment.



3. Cost-effectiveness

Compared to other commercially available installations, **HotFoam™** is very cost-effective. This is due to innovative yet simple solutions. Thanks to the unique technology, air from inside the protected zone is used to generate foam, even if it is filled with hot gases from the fire and thick smoke. In view of this, there is no need to install an additional installation to ensure the supply of fresh air from outside or smoke extraction ventilation. The technology of the light foam system allows full flexibility in design to provide the optimal solution at the lowest cost.

4. Wide range of usage

HotFoam™ is equally effective in extinguishing fires involving liquid materials as well as flammable solids. With the right choice of foam agent, it provides safety in areas such as:

- | | |
|--|--|
| <ul style="list-style-type: none">▪ All types of warehouses▪ Processing plants▪ Production halls▪ Cable tunnels▪ Railway tunnels | <ul style="list-style-type: none">▪ Petrochemical production plants▪ Aircraft hangars▪ Power plants▪ Engine rooms aboard ships and oil rigs |
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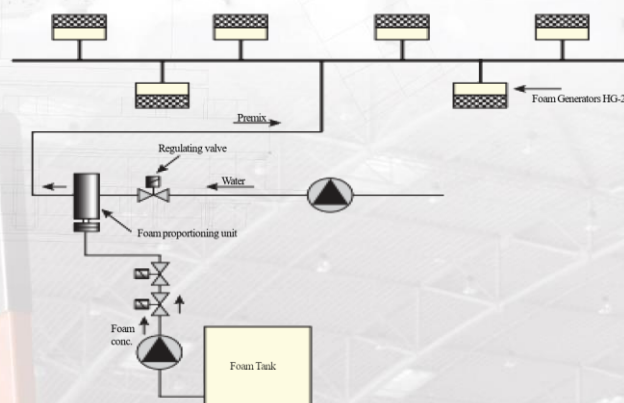
5. Advantages of the Hi-Ex Foam System HotFoam™

- Cost-effective
- Fast and reliable fire extinguishing
- Rapid temperature reduction
- Convenient installation without need to install air tubing
- No smoke ventilation required
- Low water consumption, low risk of secondary damage
- Flexible location of foam generators, can be located over a particularly vulnerable area
- Possibility of complete filling or local protection
- High expansion foam generators on piping system
- Easy maintenance no moving parts in foam generators
- Environmentally friendly

6. Installation of the Hi-Ex Foam System HotFoam™

A complete installation consists of the following components

- Water source
- Actuating detection system
- Foam agent storage tank
- Appropriate foam agent depending on the flammable substances stored
- Foam proportioning unit
- Deluge valve
- Foam/water pipe system
- Foam generators with a foam generating capacity of 60 m³/min.



We kindly invite you to contact our company and learn more about the details of the Hi-Ex Foam System.

On our website you will find descriptions of individual devices and a lot of advices on the appropriate selection of protection and system configuration.

FOAMAX Fire Fighting systems & equipment