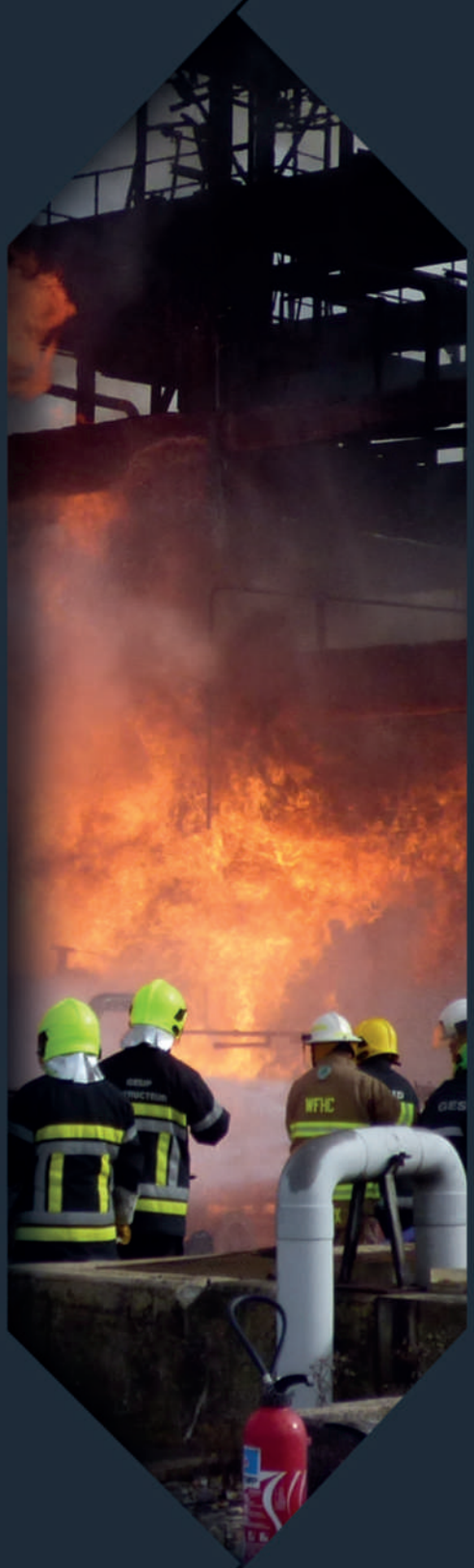
Foamax®
Fire fighting systems & equipment



Grinnell

tyco

SABO FOAM

SKUM

WILLIAMS FIRE & HAZARD CONTROL

CRANE Ferper S

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03-149 Warsaw

ON THE MARKET SINCE 2012!

FOAMAX is a Polish company operating since 2012. We specialize in fire safety issues addressed to the logistics industry, industrialconstruction, structural infrastructure as well military and public buildings.

The company's core business is to support customers in the area of firefighting equipment and products. We focus on individual needs and expectations.

The company's employees pose a team of experienced specialists able to guarantee selection of the most effective solutions.

The company's partners are leading manufacturers of fire protection equipment, extinguishing systems and agents as well as producers of monitoring and detection solutions. Wide and comprehensive catalog of products enables us to offer optimal solutions for almost any investment.

We encourage you to contact us and learn more about our products and services.

Foamax supplies equipment, but it also assists in the conception of firefighting systems.

Distributor of high-quality firefighting equipment for foam and water systems offered by TYCO/ Johnson Controls.

2 ABOUT THE COMPANY

YOUR SAFETY IS OUR PRIORITY!

EXAMPLES OF COMPLETED DELIVERIES IN POLAND AND EUROPE:

- **HIGH EXPANSION FOAM:**
  Eurofoam Zgierz, Raben Sosnowiec, Gądki, Robakowo, Autostore Goleniów, Action Bieruń, Action Osła.

- **INTEGRATED DETECTION SYSTEM WITH WATER AND FOAM MONITORS:**
  Incinerating plant in Kraków and Białystok.

- **THE LARGEST MOBILE FIREFIGHTING MONITORS WITH A CAPACITY OF UP TO 45,000 L/MIN., PERN:**
  MOL Refinery, SLOVNAFT.

- **HELIPAD LANDING GROUNDS SAFETY SYSTEMS:**
  POLSAT Warsaw building, Hospital in Toruń, Hospital in Poznań.

- **FIRE EXTINGUISHING SYSTEMS FOR MILITARY FACILITIES:**
  Hangar Dęblin, Hangar Balice, Hangar Latkowo, MPS Porażyn, MPS Piła, MPS Niedźwiedź.

- **DELIVERY OF TEMPER S/CRANE ANTIFREEZE AGENT:**
  Kaufland, Frisco, Canpack.

- **SUPPLY OF EQUIPMENT FOR SPRINKLER AND NOZZLES SYSTEMS:**
  Bridgestone, Polmos Żyrardów, Vida XL, Panattoni, Prologis, Kappa Smurfit, LG Chem.

- **And many more...**

WE HAVE BEEN WORKING WITH LEADING AND GLOBAL MANUFACTURERS:

JCI/Tyco Fire Production Products
Leading manufacturer of equipment for foam firefighting systems, sprinkler systems, nozzles systems and control systems for commercial, industrial and residential applications.

Johnson Controls
A key JCI brand offering excellent quality equipment for firefighting systems, including foam monitors, tanks and Bladder Tanks, dispensing systems, foam agents and firefighting powders.

ANSUL
World-renowned manufacturer of firefighting equipment used in fixed foam firefighting systems. Among other products, it offers foam generators, foam agent tanks and dispensing systems.

MACRON
Manufacturer of fire protection equipment. The company designs and manufactures equipment such as foam generators, foam monitors and proportioners.

CRANE Temper S
Temper - is part of the German Crane capital group. A Swedish company with unique innovations and a strong commitment to environment protection. Manufacturer of, among others, antifreeze agent (glycol-free) for fire protection, with firefighting properties superior to water.

WILLIAMS FIRE & HAZARD CONTROL
American tycoon in the field of fire protection.The company was founded in 1980 and specializes in the protection of flammable liquids. 30 years of experience in equipment manufacturing and more than 200 worldwide fire projects warrant that Williams Fire & Hazard Control equipment is of the highest quality.

Grinnell
A premium brand owned by Johnson Controls International providing high-quality grooved system solutions for a full range of applications.

InfraTec
A company with 30 years of experience offering innovative products and services in the field of infrared technology. The flagship product it offers is the WASTE SCAM system, which is used in the most demanding facilities such as waste incinerators and automated warehouses.

ZETTLER
The Zettler family of products is based on MZX technology, which provides some of the most advanced features in fire detection.

SKUM
World family manufacturer of firefighting equipment used in fixed foam firefighting systems. Among other products, it offers foam generators, foam agent tanks and proportioner systems.

4 HIGH EXPANSION FOAM SYSTEMS

HOTFOAM SYSTEM

The HotFoam™ system is the latest development in fire protection. Due to its proven effectiveness and speed in fighting fire, it is the most widely used solution in places such as warehouses, manufacturing plants, aircraft hangars, engine rooms on ships or oil rigs. A great advantage of the High Expansion Foam, in addition to its efficiency, is the optimal reduction of the secondary damage which happens in casual water systems.

HotFoam™ is as effective in extinguishing liquid material fires as it is in case of combustible solid material fires. With the right choice of foaming agent it provides safety in areas such as:

- All kinds of warehouses
- Processing plants
- Production halls
- Cable tunnels
- Railway tunnels
- Petrochemical production facilities
- Aircraft hangars
- Power plants
- Engine rooms and oil rigs.

The complete installation of the SKUM HotFoam system consists of the following components:

- detection and actuation system,
- water source,
- foam agent storage tank Bladder Tank,
- HotFoam 2% foaming agent,
- foam dispensing unit,
- flooding valve,
- foam/water piping,
- foam generators.

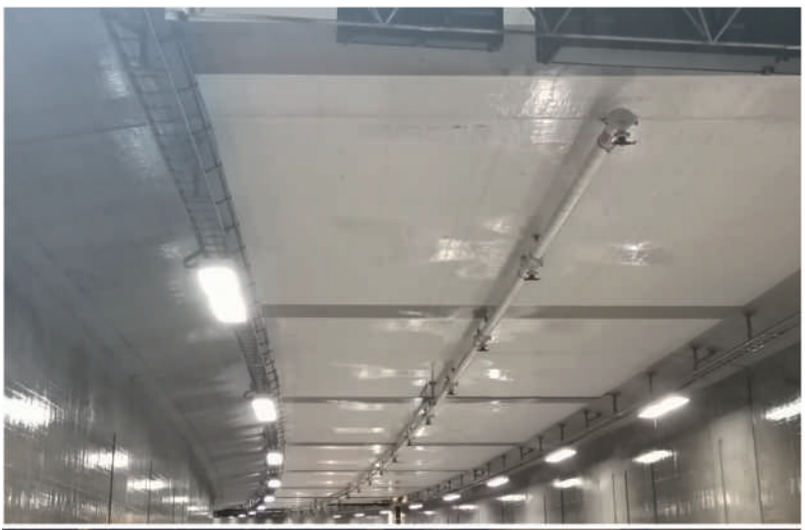
ADVANTAGES:

- cost-effective,
- fast and reliable fire extinguishing,
- rapid temperature reduction,
- convenient installation without the need to install air ducts,
- no smoke ventilation is required,
- low water consumption, low risk of the secondary damage,
- flexible location of foam generators, possibility of locating over a particularly vulnerable area,
- possibility of complete filling or local protection,
- light foam generators on the pipe system,
- easy maintenance - no moving parts in foam generators,
- environment friendly.

6 NOZZLES SYSTEM FOR THE PROTECTION OF TUNNELS

FIRE PROTECTION SYSTEM FOR TUNNELS

Foamax company offers comprehensive fire protection solutions that provide complete protection for tunnel infrastructure. With expertise in rail, road or other underground structures it is able to protect even the most demanding or crucial tunnel structures in the world.



SYSTEM FEATURES:

- protection system designed for fire protection of tunnels, thick-drop sprinkler system based on horizontal drenchers,
- fully certified by CNBOP and UL certification bodies,
- effectiveness of the system at 100 MW fire and forced ventilation of 3 m/s (confirmed by full-scale tests),
- maintained excellent visibility during operation of the system to enable safe evacuation and work of emergency services in a tunnel,
- low system and servicing costs compared to other systems,
- the piping is made of high-density steel, coated both internally and externally with a thermoplastic coating resistant to highly corrosive environments (corrosivity category C-5M). The piping has a 5-year manufacturer's warranty, while a declared service life under C-5M conditions equals 50 years,
- optional foam agent dispensing system to extinguish ADR fires including flammable liquids of various types,
- recommended by the World Road Association (PIARC),
- awarded in the innovation category at the 2019 EARTO AWARDS.

Tyco TN nozzles systems are specifically designed to meet challenges of fire protection in tunnels.

The improved coverage area (per drencher) is designed to minimize the total number of nozzles required: for example, the coverage area of a TN-17 nozzle is 30 m2 (compared to only 6 m2 for a standard nozzle).

The larger jet diameter and lower pressure at the nozzles produce larger water droplets, allowing the water to penetrate the material and reach the fuel more effectively and quickly, resulting in more efficient wetting and cooling of the fuel and tunnel surface.

Easy maintenance and integrated capacity control means that pipes can be flushed at regular intervals by draining flooded areas. Valve cabinets can be customized for individual tunnel installations. Standard pressure-reducing flood valves and remote reset valves are available.

LOW COST
EASY SERVICE

- low installation costs due to one simple linear manifold,
- low operating costs - simple design reduces the extent of maintenance required,
- the pressure reduction function maintains the outlet pressure at the required level,
- the remote reset function makes it possible to readjust the valve (in one or more places),
- compact structure of cabin space-required forconnections reduces installation costs,
- electrical activation with the possibility to activate the valve in automatic and manual modes.

CRANE Temper® S

Temper S is a high-quality, non-toxic antifreeze agent. The product is particularly suitable for fire protection in areas exposed to low temperatures down to -55 °C.

Compared to other antifreeze solutions, Temper S contains no glycol and is chemically stable. It has been designed with special focus on optimal corrosion protection. To ensure high product quality, Temper S is supplied as a ready-to-use product available in six different versions, with freezing points from -10 °C to -55 °C.

ESFR 17 DRY SPRINKLER

TYCO's dry-type pendant sprinklers, ESFR--17 model, are Early Suppression Fast Response (ESFR) sprinklers with a nominal K-factor of 16.8. They are fire suppression sprinklers, particularly useful as replacements for in-rack sprinklers to protect goods stored in coolers and stacked right next to each other in high stacks.

The ESFR-17 dry pendant sprinkler is FM approved and has passed FM Global's full-scale fire tests when tested for compliance with FM Global's applicable Property Damage Prevention Equipment Data Sheets.

ESFR-17 dry-type sprinklers consist of an ESFR Sprinkler permanently attached to an inlet end with grooved and threaded connections. The end that connects the inlet and the sprinkler remains dry until the sprinkler has been activated, allowing the pendant sprinkler to be mounted to a sprinkler system filled with water, while the dry end itself and the sprinkler are located in a negative temperature space.

DRY SPRINKLER

TYCO DS-1 5.6K series pending, upright and sidewall-mounted, standard response (5mm bulb). Dry sprinklers are automatic bulb sprinklers,

- dry pipe systems that are exposed to sub-zero temperatures (for example, a sprinkler in unheated parts of buildings),
- in systems that are seasonally drained to avoid freezing (for example, holiday resorts).

10 LANDING GROUNDS PROTECTION

SYSTEM SAFE LANDING

The system has been designed for clients using all types of landing grounds.

SAVE LANDING is a system that enables the entire surface of a landing ground to be covered with specially selected firefighting foam using fire monitors in a very short time.

The system works automatically after activation by a single button by any person who is in the direct neighborhood of a hazardous situation.

At the customer's request the extinguishing switching system can additionally send a fire alarm to the airport dispatcher, fire department or other dedicated service.

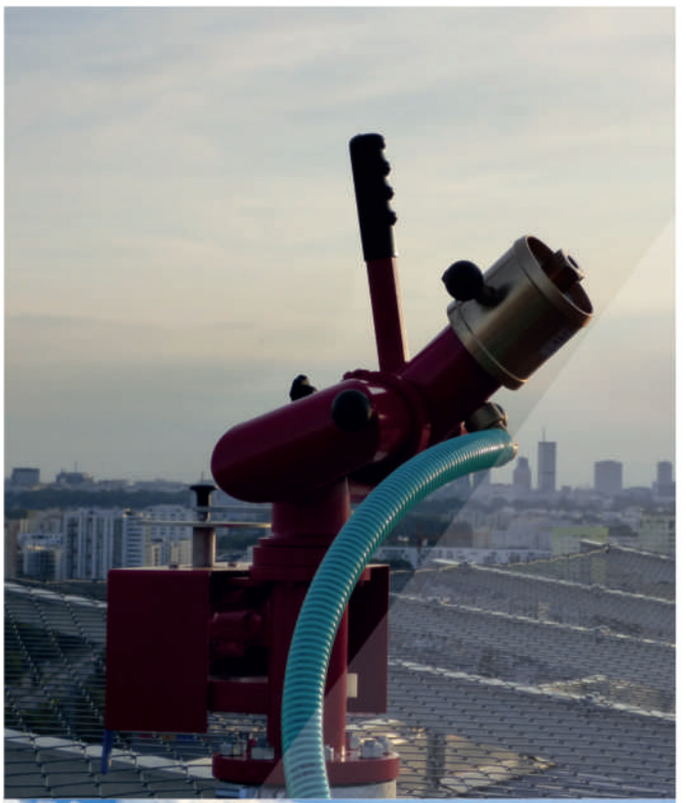
Foaming agent is supplied to the firefighting monitors from bladder tanks, which function even during erratic operation of the water supply.

SYSTEM COMPONENTS:

- diaphragm bladder tank - a hydrant network or a small water pumping station together with a fire water tank is all that is required for its operation,
- TPW-series dispenser - it meters the foaming agent precisely over a wide range of flow rates and variable pressure values,
- we select dedicated foaming agents to extinguish fires on the landings, with consideration to the type of Fuel JET A1/Kerosene and others,
- FJM WTO type water and foam monitors (80, 100, 150) enable administration of a jet of water or firefighting foam over considerable distances in a wide range of flow,
- system of supply pipelines, valves, and launch automation system.

ADVANTAGES OF THE SYSTEM:

- ability to launch remotely without exposing the system operator,
- ability to extinguish in close proximity to flames and high temperatures,
- designed turnkey, for a specific location,
- built on effective and certified solutions,
- operation does not require specialized firefighting skills,
- it is intuitive, ideal in a stressful situation, working automatically,
- if used correctly, it is ready for use after a check and replenishment of foaming agents,
- ready for use in all weather conditions, 24/7
- ability to configure individual components,
- the solution is dedicated to heliports and helipads. It is ideal for securing hospital helipads, private landing grounds and wherever emergency services access is difficult,
- it is possible to install it at heights.



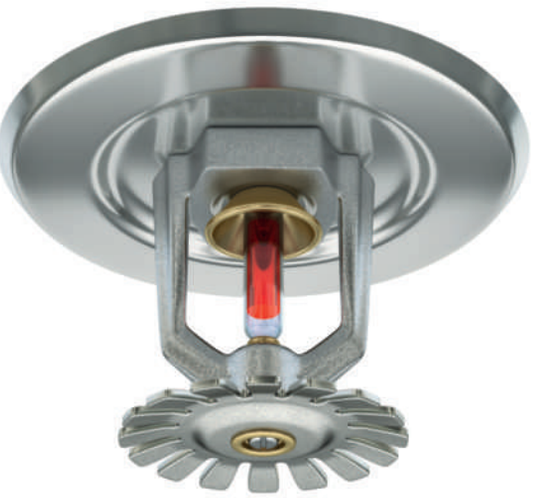
12 SPRINKLERS SYSTEM

A sprinkler system is a Fixed Fire Extinguishing Device designed to extinguish a fire or prevent the spread of flames and hot fire gases by applying water to a portion of the fire area.

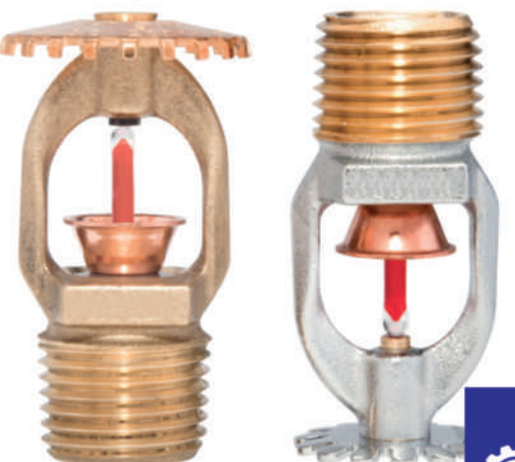
Application of the installation is very diverse and can be used to extinguish solid materials: (wood, fabrics, paper, rubber, plastics). The most often they can be found in the following facilities:

- manufacturing and warehousing,
  - logistics centers,
  - warehouses,
  - factories,
  - high storage warehouses,
- commercial and service facilities,
- public facilities,
  - offices,
  - cinemas,
  - theaters,
  - banks,
  - hotels

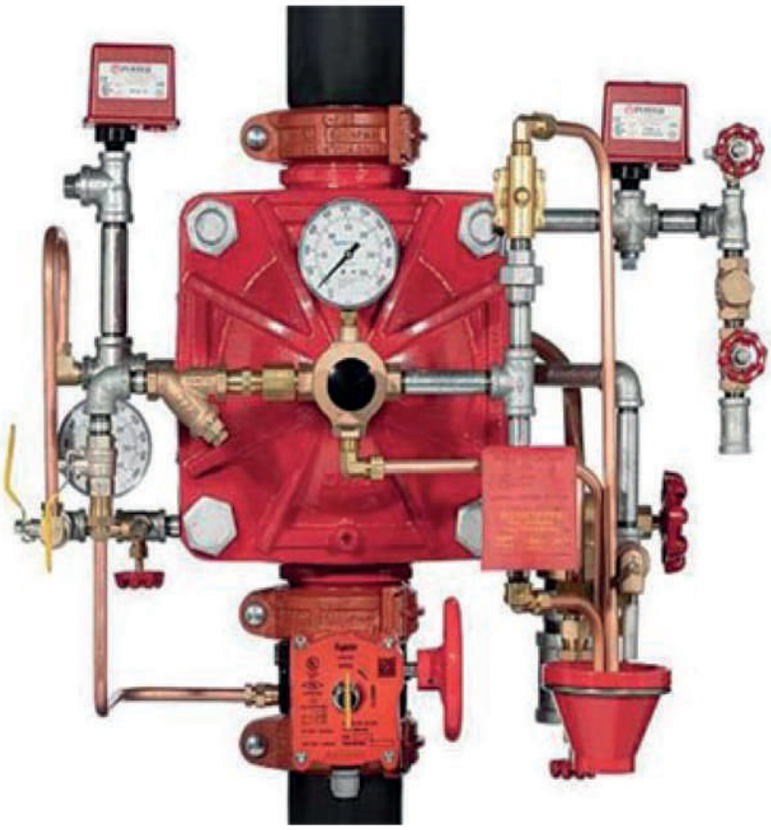
FOAMAX OFFERS A WIDE RANGE OF EQUIPMENT FOR SPRINKLER SYSTEMS:



- K80, K115, K160 sprinklers, fast and normal response,
- early suppression and rapid response sprinklers ESFR K240, 320, 360, 480,
- accessories for sprinklers: rosettes, guards,
- wet and dry control and alarm valves,
- gate valves for wall and vertical indicator,
- shut-off gate,
- butterfly valves,
- check valves,
- flow switches,
- relief valves,
- ball valves,
- Grinnell fittings.



14 NOZZLES INSTALATIONS



Nozzles systems are used to protect buildings, cool easily flammable objects and wherever rapid spread of fire can be expected. They are activated either automatically or manually.

Nozzles systems operate on a similar basis as sprinkler systems.

The difference is that with nozzles systems, the nozzle are placed on the water distribution pipes. The nozzles do not have a shut-off which means that water is applied simultaneously to all areas of the protected area, and the installation itself is a dry installation.

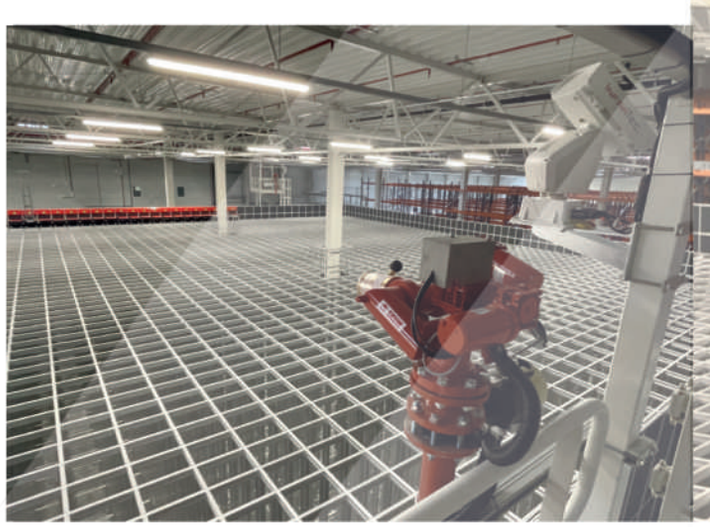
FOAMAX OFFERS A WIDE RANGE OF EQUIPMENT FOR NOZZLES SYSTEMS:

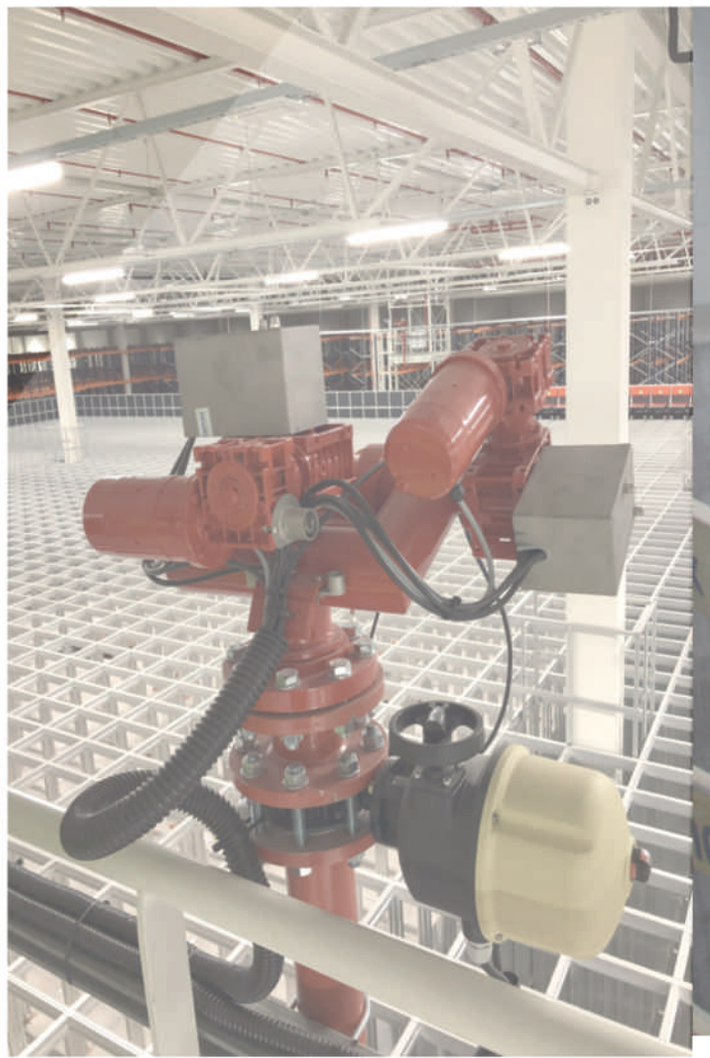
- deluge valves,
- Preaction Single Interlock - valves with single lock,
- Preaction Double Interlock - with double lock,
- nozzles D3,
- nozzles MV and MV-R,
- gate valves,
- butterfly valves.

The fire detection system works in along with the extinguishing system so that the detection of a fire at a particular location triggers an automaticstart of the water and foam system and automatic guidance of monitors to the location of the fire source. As a result of fire detection by a monitoring system consisting of a thermal imaging camera and a control cabinet (WASTE SCAN), it sends a signal to the monitors cabinet with information about the zone where the fire occurred. After receiving the appropriate signal, the monitors start automatic extinguishing of the pre-defined zone. The monitors cabinet automatically sets the monitors to the predefined zone and continuously monitors their operation through encoders installed in the monitors. It will also be possible to extinguish in manual mode using control panels or a radio panel.

COMPONENTS:

- thermal imaging camera ,
- water and foam monitors,
- Bladder Tank,
- foam agent proportioner,
- release and control valves,
- control cabinets and panels along with the monitors.





APPLICATION

The WASTE MAX system is used in places where early detection is most important and the appearance of a flame means the rapid spread of a fire.

The system shows us the heat generated during the occurrence of exotermic processes. This allows us to react quickly to what is happening, and if the temperature rises above a certain level, the system extinguishes the fire itself.

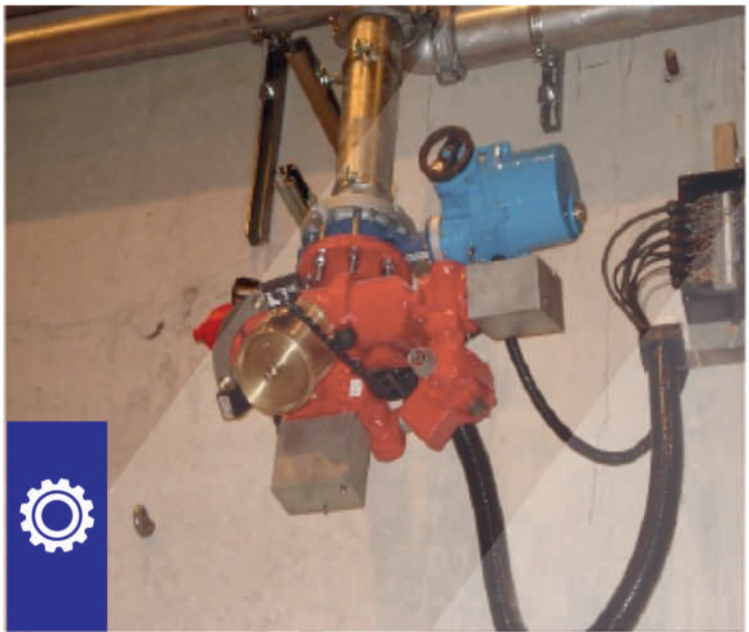
FOAM INSTALATIONS

Foam systems are fixed firefighting equipment in which a foaming extinguishing agent is administered along with water. They are used when there is a threat of fires involving alcohols, flammable liquids, gasoline, and chemicals.

Foamax offers certified equipment from TYCO, SKUM and ANSUL:

- Bladder Tank vertical and horizontal foam agent storage tanks,
- fire extinguishing foam agents,
- water and foam monitors,
- proportioners,
- B1 nozzles.

In addition, we offer assistance with foam extinguishing system concepts!



SYSTEM BLADDER TANK

Bladder Tanks SKUM and ANSUL:
used to store and dispense foam agent for water-based firefighting systems with variable flows and/or pressures.

A pressurized tank made of steel designed to store the foam agent. Foaming agent concentrate is drained from the tank due to the pressure exerted by water on the flexible diaphragm inside the steel tank.

CVC atmospheric tank:
It is used in fixed pump foam systems. Ideal for use with MI aspirators as well as PP and PPW pump foam agent proportioners.

TECHNICAL SERVICE

FOAMAX also offers a professional technical service to assist you with the regular and professional maintenance of your fire protection systems. Our specialists have the necessary accreditations from equipment manufacturers and extensive technical knowledge to efficiently and effectively carry out almost any service on the equipment and systems we offer.

Service operations are coordinated from the Company's registered office and are available throughout the country. Time of response, quality verification procedures and regular availability of basic spare parts is an indicator of the efficiency and effectiveness of our service.

We perform service based on NFPA and PN-EN 13565-2.

Employees have all the necessary certifications from manufacturer - Johnson Controls for the following brands: TYCO, ANSUL, SKUM, Williams Fire & Hazard Control,Temper.

Foamax®
Fire fighting systems & equipment


Foamax®
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SPECIALIZED MOBILE PUMPS

Specialized mobile pumps that pose a perfect solution as a backup water supply. The mobile pumps provide a capacity of up to 30,000 l/min and allow transport up to 4 km.

HIGH-EFFICIENCY PUMPING

High-performance fire pumping stations for supplying sprinkler, nozzles, foam and hydrant systems in combination with a water supply tank and the Bladder Tank foam agent dosing and storage system provide an excellent solution in the area of the facility in terms of fire.

FOAM GENERATORS

The OFG and OFGR series of compact filler foam nozzles provide optimal working conditions. The flow rate on the units is calibrated exactly to the designer's guidelines. The units have a test outlet that allows testing with the extinguishing agent without having to remove the units themselves.

NOZZLES SYSTEM

Nozzles system for transformers (so-called cage) in the form of a spatial installation, adapted to the shape of protected transformer and surrounding it, including the conservator, with the appropriate number of rings meeting the design requirements.

WATER AND FOAM MONITORS:

Electrically controlled in a fixed firefighting system - an excellent safety solution. The monitors can be used to administer firefighting jets with the extinguishing agent concentrate or water alone. The monitors can be controlled from a radio console, allowing a quick response to changing weather conditions

HIGH-EFFICIENCY MOBILE PUMPS

The pumping set is equipped with submersible hydraulic pumps and a pressure booster pump. The set enables transfer of water over long distances of up to 4 km, while providing sufficient pressure to carry out operations with a high-performance mobile gun.

HIGH-EFFICIENCY MOBILE MONITORS

Ambassador/Buttler high-performance mobile monitors with capacities of up to 30,000 l/min and 45,000 l/min, respectively. Thanks to their design, the monitors provide a range of firefighting streams of more than 100 m, ensuring the safety of the operator.

DOZING SYSTEM

Dozing system for use in fixed fire extinguishing systems. Based on the Bladder Tank type pressure tank, Foam Extinguishing Agent Concentrate, Dispenser and other necessary fittings.

FOAM WITH OFGR FILLER

The OFGR 50T and 100T series of compact filler foam nozzles with OFGR filler provide optimal working conditions. The flow rate on the devices is calibrated exactly to the designer's guidelines. The units have a test outlet that allows testing with the extinguishing agent without having to remove the units themselves.

FOAM NOZZLE WITH OFG FILLER

The compact FIH foam nozzles - OFG 50T and 100T series provide optimal operating conditions. The flow rate on the units is calibrated exactly to the designer's guidelines. The units have a test outlet that allows testing with the extinguishing agent without having to remove the units themselves.

WATER AND FOAM MONITORS ELECTRICALLY CONTROLLED

An electrically controlled water and foam gun in a fixed firefighting system is an excellent solution to ensure safety. The monitors can be used to administer firefighting jets based on the extinguishing agent concentrate or water alone, using them to make a water curtain to protect the tank park. The monitors can be controlled from a radio console. This allows a quick response to changing weather conditions.

HIGH-EFFICIENCY PUMPING STATIONS

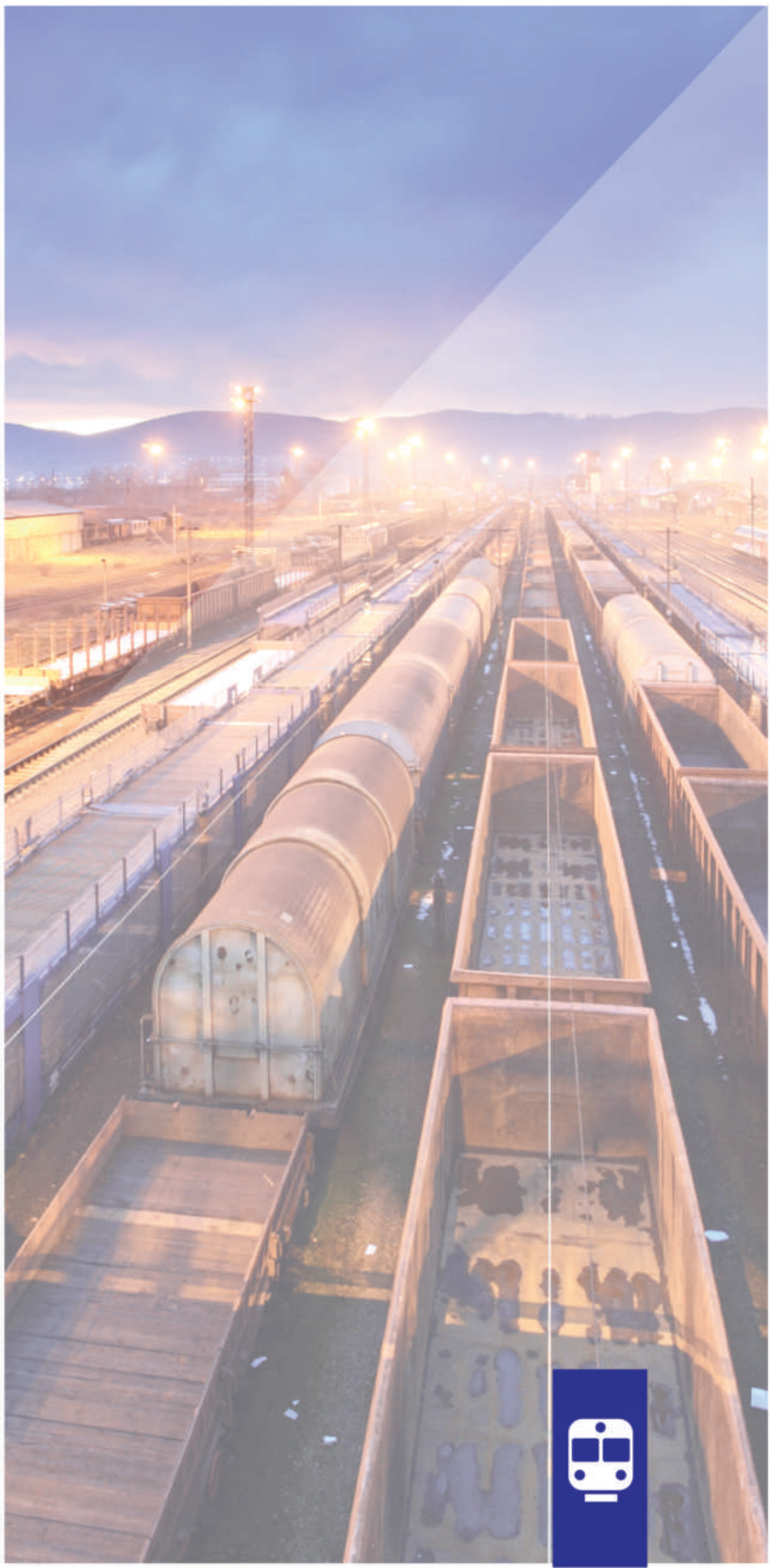
High-performance fire pumping stations for supplying sprinkler, nozzle, foam and hydrant systems in combination with a water supply tank and the Bladder Tank foam agent dozing and storage system provide an excellent solution in the area of securing the facility in terms of the fire.

WATER AND FOAM MONITORS

Installation of water-foam monitors on the railroad front provides adequate fire protection for unloading ramps. Replacement of water and foam monitors makes it possible to apply extinguishing streams at long distances to extinguish or cool down tankers, for example, from a safe distance from the fire. The monitors can be controlled from a radio console, allowing a rapid response to changing weather conditions.

FOAM NOZZLES SYSTEM

Heavy foam nozzles system to protect covered areas with product discharge pumps. The nozzles system is activated by a suitable detector, thermal imaging cameras or manually by the facility staff.



LOGISTIC OBJECTS / STORAGE HALS

HIGH-EFFICIENCY PUMPING STATIONS

High-performance fire pumping designed to supply sprinkler, nozzles, foam and hydrant systems in conjunction with the water supply tank and the Bladder Tank foam agent dosing and storage system provide an excellent solution in securing the facility in terms of fire.

SPRINKLER / NOZZLES SYSTEMS

Water-foam nozzles or water sprinkler systems, combined with a fire pump and appropriate deluge valves and piping, constitute a permanent firefighting device to provide protection for a given space in the event of a fire.

ANSUL HIGH EXPANSION FOAM

The High Expansion Foam developed by ANSUL is an effective solution for production halls, warehouses, basements, tunnels, airplane hangars and other facilities where flammable materials and chemicals are present. The system operates on the grounds of the automatic application of light foam resulting in complete filling of the protected space.

HOTFOAM HIGH EXPANSION FOAM

HotFoam High Expansion Foam using internal fire gases. It is an ideal solution for both newly built and existing warehouse facilities.

BLADDER TANK

Certified Bladder Tank type for extinguishing agent. Tanks of this type are used in variable flow dispensing systems. The tanks are certified by CNBOP.

ELECTRIC WATER AND FOAM MONITORS

SKUM FJM EL series water and foam monitors work well even in the most difficult conditions. Their compact design and special sealing system ensure trouble-free operation.

B1 NOZZLES

The foam nozzles system provides additional protection for a bunker. Depending on the configuration, the system is activated over a particular section or over the entire bunker.

THERMAL IMAGING CAMERAS

InfraTec thermal imaging cameras are the ideal solution for this type of a hazard. Specialized software and high quality components detect elevated temperatures and provide early response. This can prevent a fire from spreading.

TUNNEL PROTECTION

It is necessary to ensure adequate protection against corrosion and resistance category C-5M. Use of Alvenius piping, made of high--density steel coated both internally and externally with thermoplastic, ensures resistance to C-5M corrosion categories. Declared service life of piping in C-5M winters equals 50 years.

HORIZONTAL NOZZLES TN-17 AND TN-25

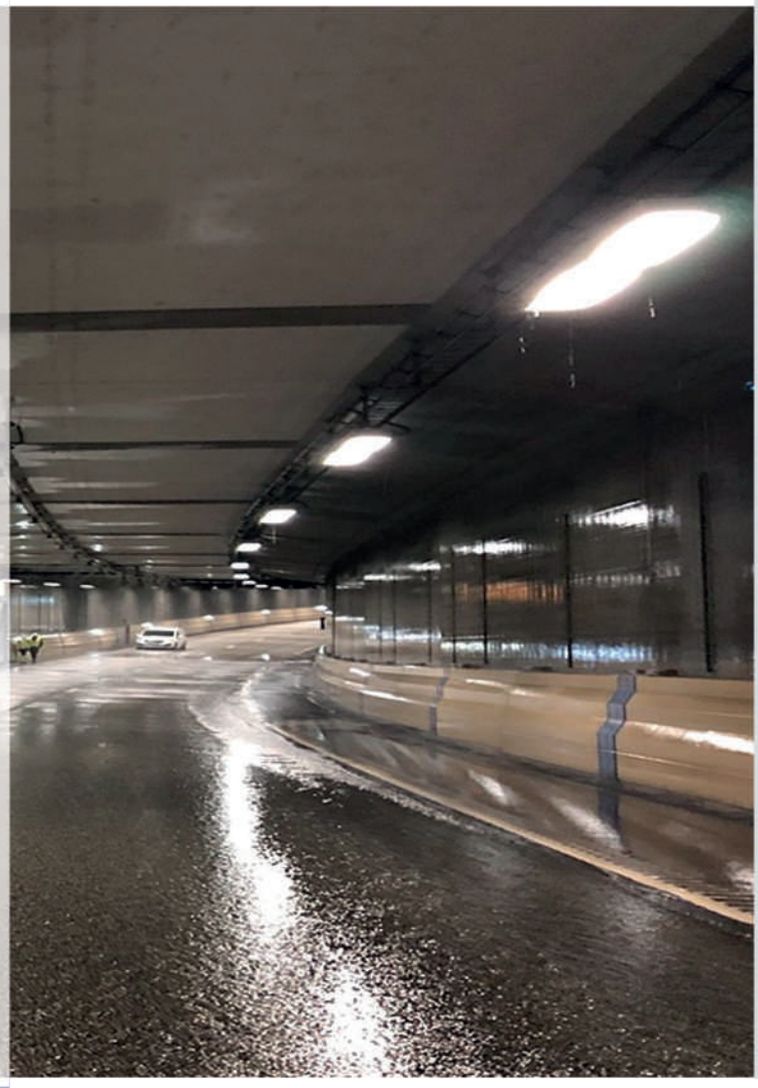
Due to the enhanced coverage feature it requires installation of one pipe only along the entire length of the tunnel (unlike traditio-nal designs that use several pipes to provide sufficient coverage). A single nozzle provides a coverage area of 50 m2.

MZX SENSORLASER TM PLUS

System reliability and precision play a key role in early fire detection. The new MZX SenorLaser TM Plus system ensures fast and continuous fire detection, even in difficult conditions with varying environmental para-meters. The new linear temperature detec-tion system enables continuous monitoring of long and highly fragmented objects such as communication and delivery tunnels, cable ducts and conveyor belts, as well as large buildings such as production halls, cold stores, road tunnels and multi\-story parking lots. The MZX SensorLaserTM Plus system provides precise information on fire location, size and spread, even in harsh and changing environmental conditions.

DELUGE VALVES DV-5A REMOTE RES-SETING PRESSURE REDUCING

Remotely operated with pressure reduction. They are diaphragm-type valves that can be used in remote activation systems of dren-cher systems. When properly configured, the DV-5A valve can be opened and closed at full flow from a remote location.



ESFR SPRINKLERS

The effectiveness of Crane Temper S antifreeze agent has been confirmed in CNBOP with ESFR sprinklers. This makes it the only agent on the market with fire extinguishing efficiency with ESFR sprinklers.

Dry sprinkler ESFR 17

CRANE TEMPER S ANTIFREEZE AGENT

Temper S is a high-quality non-toxic antifreeze agent. The product is particularly suitable for fire protection in areas exposed to low temperatures up to -55C. Compared to other antifreeze solutions, Temper S contains no glycol and is chemically stable. It has been designed with special focus on optimal corrosion protection. To ensure high product quality, Temper S is supplied as a ready-to-use product available in six different versions, with freezing points from -10 Celsius degrees to -55 Celsius degrees .


FACTORIES


MILITARY FACILITIES


ELECTRIC VEHICLES AND
CHARGING STATIONS


LANDING GROUNDS
AND HELIPADS


SKUM
tyco
WILLIAMS
FIRE & HAZARD CONTROL
ZETTLER
KRAHN
SPECIALTY FLUIDS
MACRON
Johnson Controls
SABO FOAM
CRANE Temper S
ANSUL
Grinnell
INFRATEC

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Fire fighting systems & equipment

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