



One Seven®
Compact System „Maxi-Xtinguisher“

Application

The **One Seven® Maxi-Xtinguisher** forms a complete extinguishing system. It can be used where a quick response time between fire detection and start of extinction is necessary. The **Maxi-Xtinguisher** therefore should be installed in close distance to the desired protected object.

The foaming agent is already mixed with water and is provided as a premix in a pressurised tank. As such, a separate foaming agent tank is superfluous. The supply with compressed air is realised in this system using compressed gas (nitrogen). The application time is limited due to the limited storage of the compressed gas and water/foaming agent mix. The application time is determined on the basis of the respective quantities stored and the volumetric flow settings, which enable the generation of the compressed air foam production. It is therefore only possible to realise accordingly defined dimensioning.

The **Maxi-Xtinguisher** is primarily configured for the protection of property and machinery. The extinguishant is applied via nozzles directly to those areas of a machine or facility in which a fire could break out, or where the greatest risk of fire exists. Short lines and rapid fire detection guarantee an almost delay-free delivery of the compressed air foam to the areas at risk.

The **Maxi-Xtinguisher** can be combined with all extinguisher system controls and fire alarm systems.

Description

The **Maxi-Xtinguisher** is mounted into a cabinet. All necessary items to produce One Seven® compressed air foam are already integrated. It includes the water-foaming agent solution (premix), a gas cylinder for the foam production and the relevant mixing elements.

It is possible to use pipes or hoses to bring the compressed air foam into the extinguishing area. Then the CAF will be spread by special One Seven® discharge devices.

To activate the **Maxi-Xtinguisher** by an automatic fire detector an optional control unit is necessary.

A manual activation option is also available.



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Foam Rotor



Flat Stream Nozzle

Possible applications with the Maxi-Xtinguisher - two examples

One possible use of the **Maxi-Xtinguisher** is its application in mobile waste shredders on a trailer basis. Here, it is intended to serve as fire protection for the shredder. This is implemented through the installation of eight flat jet nozzles, via which the foam can be injected into the working area. The flat jet nozzles are a fixed installation and are connected via a hose system. Four flat jet nozzles are used to protect the feed hopper from above, whilst four flat jet nozzles serve to protect the shredder blades (cutting table), the conveyor belt and the shredder from below.

Each nozzle has a flow rate of 5 litres per minute. The **Maxi-Xtinguisher** can be triggered either via a sensor cable, which is connected with the extinguisher system control, or via a pushbutton alarm, which is mounted on the shredder itself.



Waste shredder on a trailer basis

An additional **Maxi-Xtinguisher** has been installed in a newly constructed recycling centre, which was almost entirely burned to the ground in a fire. In order to reinforce the existing protection through the use of a nitrogen extinguishing system, a **Maxi-Xtinguisher** is also being employed for shredder protection. An opening is utilised between the shredder and screw conveyor belt for this purpose, through which the foam is able to fall onto the waste. In doing so it creates a foam barrier, which prevents the fire from spreading further. It is possible to compare the effect to that of an insulation layer.

The **Maxi-Xtinguisher** is a fixed installation within the building, and is fitted with a pipe that runs to the foam outlet point. Fire detection is ensured by the operator through two temperature alarms, which transfer a signal to the extinguisher system control.

The **Maxi-Xtinguisher** is accordingly activated by the extinguisher system control. It is also possible to trigger extinguishing manually, via a pushbutton alarm.

ADVANTAGES

- autarkic extinguisher system
- all supply media within a complete system
- rapid readiness for operation
- particularly well suited for property protection
- no dependence on other resources
- complete extinguisher system in a control cabinet
- rapid extinguishant delivery
- use with waste shredders, conveyor belts, etc.

...effective fire fighting systems!



Protection of conveyor belts with nozzles



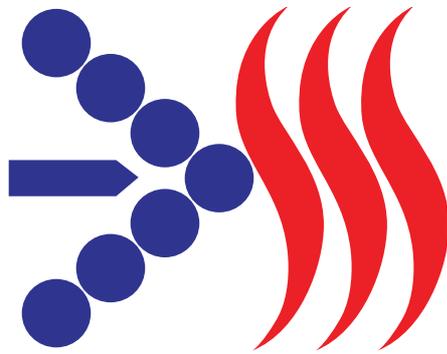
Foam delivery over waste dump



Fighting cable fires



Foam delivery via flat stream nozzle



one seven®

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