

Dönges Fog extinguishing system FOG-X, Set Extension

1033662

The new FOG-X fog extinguishing system offers a number of major advantages over conventional systems. The principle of extinguishing with fine water mist is well-known and has been successfully applied and trained in practice for many years.

The fine atomisation of the extinguishing water results in very fine water droplets in the discharge cone. This creates a very large surface area. The finest droplets can thus absorb an enormous amount of heat energy from the combustion chamber in a short period of time.

Parallel to the cooling effect, a cooling of adjacent flammable surfaces is achieved at the same time. This minimizes the risk of the formation of flammable and highly toxic gases. This effect can also be used for self-protection or to prevent the spread of fire. The fog wall is excellently suited for sealing off radiant heat. This prevents the spread of fire in rooms, shafts, ventilation systems, false ceilings, silos, etc.

In addition to the cooling effect, a smothering effect occurs with the FOG-X extinguishing lances due to the abrupt evaporation of the fine spray mist. One litre of water evaporates to approx. 1,700 litres of water vapour. The sudden amount of water vapour displaces the oxygen in the combustion chamber, which is referred to as smothering in the theory of fire. The oxygen demand of a fire permanently extracts oxygen from the air in the fire chamber. The persistent cooling effect of the fine spray mist then causes the fire to extinguish.

The decisive difference between the FOG-X fog extinguishing system and conventional systems is that the various modules such as extinguishing lances, extensions and retractors can be combined in almost any combination, depending on the application. Various scenarios such as room fires, roof truss fires, silo fires, wood chip storage fires, forest fires (soil humidification) can be combated very quickly and with little water input. The FOG-X extinguishing lances require only small amounts of water. Depending on the version and operating pressure, the water consumption is between 60-80 l/min.

The set is supplied in a practical FireBox, the individual components can be stored in the precisely fitting foam insert, clearly arranged and always ready to hand. The foam also offers space to store additional reflectors.

Technical specifications

- Can be individually combined thanks to screw connections between all components
- Particularly solid, 34 mm shaft diameter
- Spears made entirely of stainless steel
- Each spear is equipped with a Storz-C coupling and a shut-off
- Tool-free assembly of components

Content of the set:

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- 2 pieces FOG-X extinguishing nozzle - spears
 - 1 piece FOG-X Retractor 60°
 - 1 piece FOG-X Retractor 100°
 - 1 piece FOG-X extension
 - 1 piece Dönges FireBox with foam insert

