



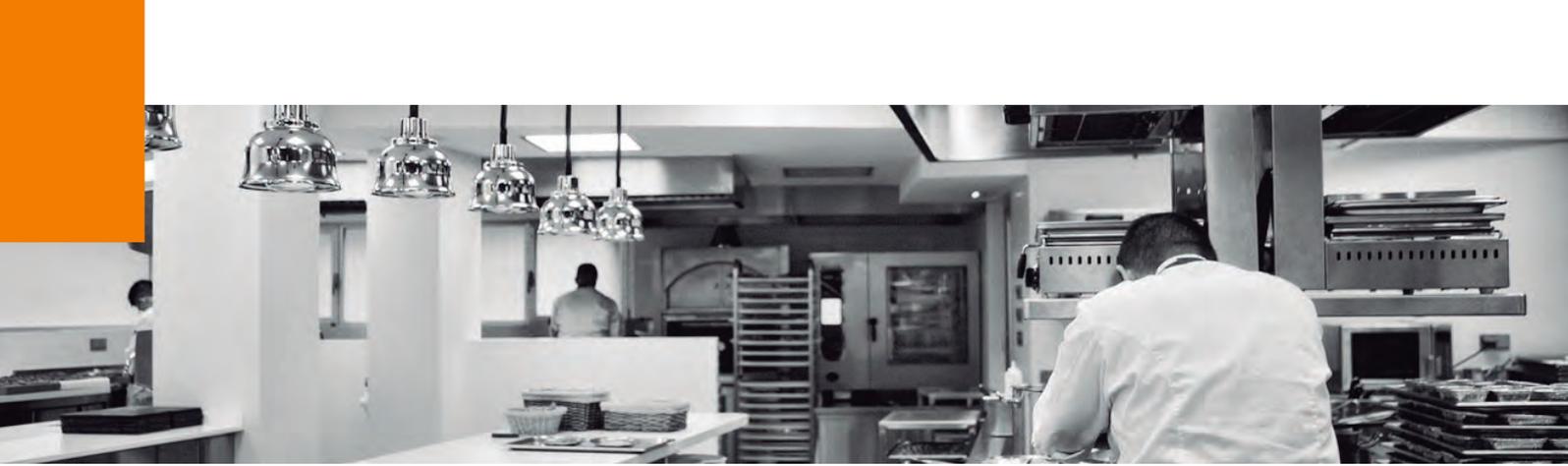
FIRE EXTINGUISHING FOR INDUSTRIAL KITCHENS





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What is SafeGuard?

SafeGuard is an automatic fire extinguishing system for the protection of industrial kitchens, designed to protect kitchen equipment such as ducts, hoods, filters and other elements where a fire can be extinguished by using the Guardex extinguishing agent.

Guardex is a wetting agent based on potassium salts, with low pH, especially recommended for extinguishing fires caused by fats and oils. It is very effective on grease, forming a superficial layer that extinguishes the fire and prevents reignition.

The detection is carried out by means of a thermo-sensitive linear tube that acts automatically when it comes into contact with the flames. The consequence is the injection of the GUARDEX extinguishing agent at the critical points of the kitchen equipment through the agent discharge nozzles (distributed through their own pipes).

After discharge, it is easy to remove the extinguishing agent without chemical cleaners; only water or steam is required.

Applications

- Stone or synthetic grills
- Wood-burning grills
- Vertical Grills
- Burners
- Ducts
- Commercial ovens
- Hood filters
- Fryers
- Grill
- Gas, electric and wood grills

Characteristics

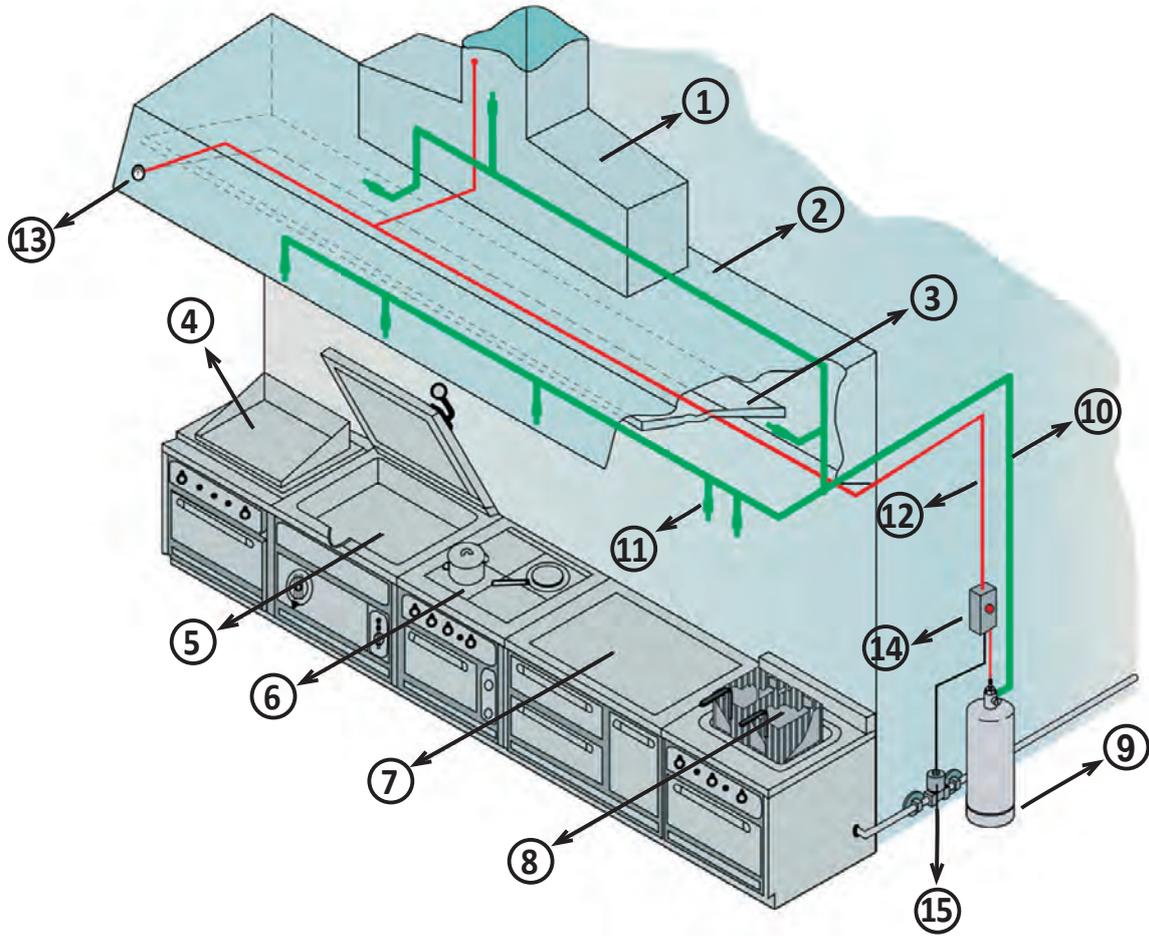
- Extinguishing liquid with low PH.
- Six different systems: pressurized or with a pressurizing cartridge.
- Environmental-Friendly Technology.
- Easy cleaning and recharging.
- UL-300/NFPA 17A/NFPA 96 Compliant Design
- Certified EN 17446: 2021.
- According to R.D. 513/2017
- Work environments that vary from 0° to 50° C

Advantages

- Easy to install and maintain.
- Quick detection at all points of the installation.
- Easy mounting and connection through kitchen equipment, even inside ovens and hoods.
- Sensitive to heat and flame.
- Long life



Elements that make up the installation



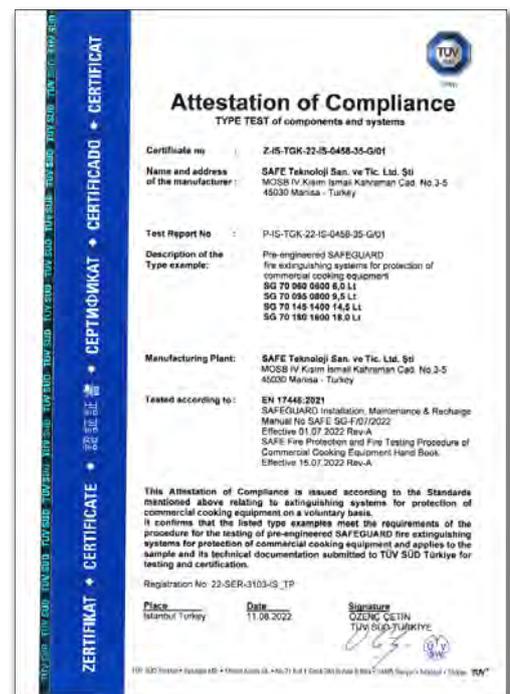
Equipment

1. Extraction ducts
2. Bells
3. Hood filter
4. Grill
5. Dryer
6. Kitchen
7. Countertops
8. Fryers

SAFEGUARD

9. Cylinders
10. Discharge pipes
11. Discharge nozzles
12. Detection line
13. End of line and pressure gauge
14. Manual override
15. Gas shutoff valve

Certificate





Cylinders

Made of chrome-nickel, they serve as a container for the Guardex extinguishing agent.

SafeGuard systems can be self-contained (like the image), or work with a high pressure stainless steel auxiliary cylinder that will carry the necessary load of dry nitrogen.

There are 6 different sizes, four for permanent pressure equipment, with capacities of 6, 9.5, 14 and 18 liters and another two to be equipped with external pressurization of 25 and 50 liters. The system allows connecting up to 44 diffusers with different flow rates.

GUARDEX extinguishing agent

GUARDEX is a wetting extinguishing agent based on low pH potassium salts.

Its extinguishing characteristics make it perfect for grease and oil fires, type F fires, both in its solid and liquid phase. Complies with NFPA 17A regulations.

Low pressure release valve

The trigger valve is installed directly on the cylinder containing the extinguishing agent.

Said valve is made of nickel-plated brass, with an internal actuation mechanism and a discharge port, as well as a connection for its filling.

To operate the trigger valve, a pressure differential is used between it and the integrated FIREDeTect detector tube, which is connected at the top of the valve and distributed to the critical points of risk.

When there is an increase in temperature (110/120°C) the FireDeTect tube melts creating an orifice that releases the pressure and triggers the valve due to the drop in pressure that allows the passage of the extinguishing agent.



High pressure release valve

This valve is used when the working pressure of the SafeGuard system is high, being installed on the auxiliary dry nitrogen cylinder. In this element we find the three parts of the high pressure system: the detection tube, the high pressure network and the part corresponding to low pressure.



Nozzles

The SafeGuard system has four nozzles with different flow rates and coverage angles. Each of the nozzles has a specific discharge flow outlet, and a specific discharge flow rate.

All nozzles are supplied with a protection cap that prevents the grease contained in the steam from clogging the nozzle.



de un vistazo

Detection system

The detection system acts automatically when the environment in contact with the FireDeTec detector line reaches a certain temperature, thus starting the discharge of the extinguishing agent.

Multiple detection throughout the entire FireDeTec tube, made entirely of polyamide, a material that begins to lose structural properties when a temperature of 110/120°C is reached, which leads to the activation of the fire extinguishing system, due to the depressurization of the storage valve.

The detector tube is easy to install, even inside the hood and ducts, with a flexible body that is sensitive to heat.



End of line adapter

It is installed at the end of the FireDeTec detection line to check the pressure inside the detection system, and thus its proper functioning.



Manual actuator

The manual actuator is used in each SafeGuard system to be able to activate the system manually. This actuator has been designed and certified for exclusive use with the SafeGuard valve.

There is also a model with a built-in pressure switch, useful for carrying out maneuvers such as stopping extraction, activating the gas cut-off valve and activating acoustic and light elements.



Auxiliary equipment

Gas shut-off solenoid valves, acoustic and light indicators, gas detectors, etc...



Our commitment: services and guarantees



Projects

The Aguilera Group offers its collaboration to engineering companies in fire detection, control and extinction projects, advising on the systems and coverage for each building. The projects department carries out the design and dimensioning of the system, the hydraulic calculations, the calibration of the diffusers and the installation isometric, advising on the effectiveness of the equipment in each risk and considering the operability in the maneuvers.



Training

Aware that we all want to know and control what we do, regardless of the technical support we provide to the installations that run with our products, the Aguilera Group offers training courses on the operation of our equipment, its installation and programming.



Personal attention

At the Aguilera Group, each client is important. We are aware that not all of us have the same needs. For this reason, our team of professionals provides personal attention tailored to your requirements.



Maintenance

The Aguilera Group undertakes to guarantee repair, reprogramming and supply of original spare parts after the warranty period.



Technical service

With the aim of guaranteeing the proper functioning of the facilities, the Aguilera Group's technical department carries out the operation tests and commissioning of the equipment, in addition to collaborating with the installer in all phases of the work. Once the system is installed with the adequate water and electricity supply and the hydraulic test having been previously carried out, the Aguilera Group's technical personnel carry out the operation test and start-up of the equipment.



Equipment Warranty.

The Aguilera Group guarantees the proper functioning of its equipment for 2 years from the date of delivery; We are responsible for the replacement or repair of those in which anomalies or manufacturing defects are observed and are delivered to our factory in Madrid.



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