



Thinking ahead since 1936

KITCHEN PROTECTION SYSTEMS



RELIABILITY

Our Kitchen Fire Suppression Systems are made by AMEREX in USA and have been protecting restaurants, hotels, hospitals, airports, shipping vessels, fast food chains and military facilities in Greece since 1995, boasting an impressive 100% extinguishment success rate. The system operates completely autonomously, without an external source of energy. Actuated automatically as well as manually, it simultaneously shuts down gas and electricity supply to the cooking appliances. It can turn on light and sound warning devices during actuation and can be connected to a fire detection panel. Increasingly more insurance companies demand the Amerex fire suppression system, while increasingly more engineers specify it for the commercial kitchens they are designing.

- **Warranty:** 3 years.
- **Cylinders require to be refilled:** every 10 years.
- **Certifications:** NFPA-17A, UL 300, LPS 1223, MED 96/98/EC, SOLAS 74, 2000 HSC, USCG, EN 16282-7, PED 2014/68/EU, CE mark, ISO 9001, ISO 140001.



FIRE DETECTION

Fire detection can be done using one of three possible options, depending on your preference:

- **Conduit and fusible links.** Fusible links that melt at selected temperatures are positioned inside the kitchen hood, suspended on a stainless steel cable (conduit) and then tensioned by a spring mechanism. When a fire occurs, the fusible links melt, the cable is loosened, and the Mechanical Release Module panel is activated, actuating the fire suppression panel system. This solution is appliance-specific and is the most cost-effective solution of the three.
- **Pneumatic fusible tubing.** A flexible fusible tube is easily fitted with special clips along the length of the kitchen hood and is then pressurized with air to 5 bar. When a fire occurs, the fusible pneumatic tube melts, the pressure inside it decreases and the Pneumatic Release Module panel is activated. This solution is chosen for the ease of installation and maintenance it offers, as well as the flexibility of covering different combinations of cooking appliances.
- **Linear heat detection cable.** A specially developed electric cable is installed over the entire length of the kitchen hood. When a fire occurs, the two wires inside it unite and close the electrical circuit by activating the STRIKE panel electrically. There are no external power requirements. Primary and secondary batteries provide continuous uninterrupted fire detection. This solution provides increased electronic monitoring capabilities and is suitable for high-end applications.



FIRE SUPPRESSION

The system protects the cooking appliances, the kitchen hood and ducts. The Amerex wet chemical liquid agent extinguishes, cools and removes oxygen from the flaming oils by forming a saponified layer on their surface that eliminates the possibility of re-ignition. It is also friendly to stainless steel cooking appliances installed in commercial kitchens. The key points separating the Amerex system from the competition are:

- **Stainless steel cylinder valves.** Extinguishing agents for commercial kitchens, called wet chemicals, are corrosive to brass. In 2004 Amerex found that even nickel-plated brass becomes corroded by the wet chemical and has since chosen to install stainless steel valves on its cylinders, as the only reliable option. As a result, periodic valve replacements are avoided, and a catastrophic valve malfunction is never a possibility.
- **Stainless steel piping.** Other manufacturers use copper or aluminum for their piping systems, ignoring the fact that these soft materials are deformed when subjected to high temperatures, and fail to provide adequate coverage against bacteria and corrosion by the challenging conditions found in a professional kitchen. Amerex systems are fitted with stainless steel piping, thus ensuring maximum hygiene and safety.
- **Nozzles with metal cap.** Amerex nozzles create a smooth misting cone, effectively extinguishing without splashing oils to adjacent cooking devices, ensuring that the fire does not spread. They feature a non-combustible metal cap that prevents oil from entering the nozzle, ensuring that the nozzles will work without the slightest problem.



INSTALLATION

The installation of Amerex systems is carried out by trained personnel, certified through seminars approved by Amerex, that take place at our premises in Athens, Greece. We can also deliver a kitchen hood with the fire suppression system pre-installed, for quick and easy fitting of the hood in a remotely located kitchen.

- **Maintenance:** Depending on the system variation that is chosen, parts are replaced every six months, three years or six years.
- **Tests:** Tests are carried out as standard without the actual flow of extinguishing agent. Upon consultation, activation can also be carried out with the flow of extinguishing agent, at an additional cost.
- **Monitoring:** System readiness is monitored either by visual inspection of the pressure gauges on the pressurized agent and actuation cylinders, or automatically via an electronic panel that automatically alerts you if the pressure drops.

Amerex Fire Suppression Systems: Reliable, certified and flexible protection for your kitchen.





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Pronoia / 'prɔ.ni.a/ noun < pro + nous < foresight, anticipation, provision, prudence.

With more than 80 years' tradition in the quality fire protection sector, PRONOIA maintains the mentality of a youthful company at the cutting edge of technological evolution, whilst taking an agile approach to dealing with the challenges of the world market. PRONOIA is active in the following sectors: Maritime, Industrial, Oil & Gas, Food & Beverage, Mining, Transportation, Construction, Fire Brigade, Civil Protection and Armed Forces. With accumulated knowledge, experience and a friendly approach, we advise, research and implement fire protection projects in all sizes of business, from a small restaurant to the Public Power Corporation, Aluminium of Greece, Hellenic Petroleum and Motor Oil. At PRONOIA, we achieve this wide range of operational activity because we represent the top manufacturers in the world in firefighting and personal protection equipment.

PRONOIA. We think ahead, so that you are safe.

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- **Warranty 1-5 years**
- **International certifications & approvals**
- **Full product range in stock and ready to ship**
- **Same-day delivery to Piraeus harbor**