

SYNERGY

KITCHEN FIRE EXTINGUISHING SYSTEM



SWASTIK SYNERGY ENGINEERING PVT. LTD.

302, Business Suites 9, S.V. Road, Santacruz (W), Mumbai - 400 054, India.

Tel No. : +91 22 67550111 Mobile No. : +91 84258 61616

Toll-Free No. : 18001207203 Email : sales@swastiksynergy.com

Web : www.swastiksynergy.com | www.kitchenfire.in

Factory : Khopoli - Pen Road, Dist.: Raigad.

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COMPANY PROFILE

SWASTIK SYNERGY ENGINEERING PVT. LTD. (SSEPL) is one of the leading Manufacturer and supplier of Fire Fighting Appliances, Equipment & Systems.

SSEPL's manufacturing and warehousing facility is located at Khopoli near Mumbai and it consists of all the necessary and sophisticated plant & machinery to manufacture of KFSS. Its Head Office is Located at Santacruz.

SWASTIK SYNERGY ENGINEERING PVT. LTD. is the first Asian Company to get UL listing for CO2 total flooding system and Kitchen Fire Extinguishing System.

SYNERGY KITCHEN FIRE PROTECTION

Risk of fire hazard proves to be very dangerous in the modern commercial kitchen. Fire in kitchen is generally due to burning of oil. However oil & fats burn at relatively high temperature and hence once they catch fire, extinguishing them is very difficult. Open flames, red hot cooking surfaces and a heavily grease- laden environment help the kitchen fire to spread quickly and have proven to be very difficult to extinguish. With the aim to protect modern kitchens from such risks we have developed SYNERGY KITCHEN FIRE EXTINGUISHING SYSTEM. The system is developed according to the NFPA & UL Standards. It can be widely used in the Kitchens of the Hotels, Institutes, Restaurants and Hospitals etc.

CLIENTELE



SYSTEM DESIGN & OPERATION

- The system consists of Wet chemical agent, Cylinder enclosure, Heat sensing cable, Nozzles, and Piping.
- Optional (Temperature Sensor, Temperature Controller)
- The system consist of automatic as well as manual actuation.
- On actuation system starts spraying Synergy low PH – liquid fine suppressant on plenum area, cooking surface, exhaust duct system with predetermined flow rate.
- On contact with hot grease, it forms a layer of soap like foam on the surface, acting an insulation between hot grease and atmosphere; thus cutting down Oxygen Supply.
- The system is capable of shutting down other appliances on system actuation, if required.
- Additional equipments such as gas shutoff valves, audio visual alarm etc. can be integrated with the system.

APPLICATIONS

- Fast Food Chains
- Hotels & Lodging
- Healthcare Facilities
- Sports Stadiums and Complexes
- Educational Facilities
- Corporate Cafeterias
- Shopping Mall Food Courts
- Marine Galleys

CERTIFICATION



UL Listed

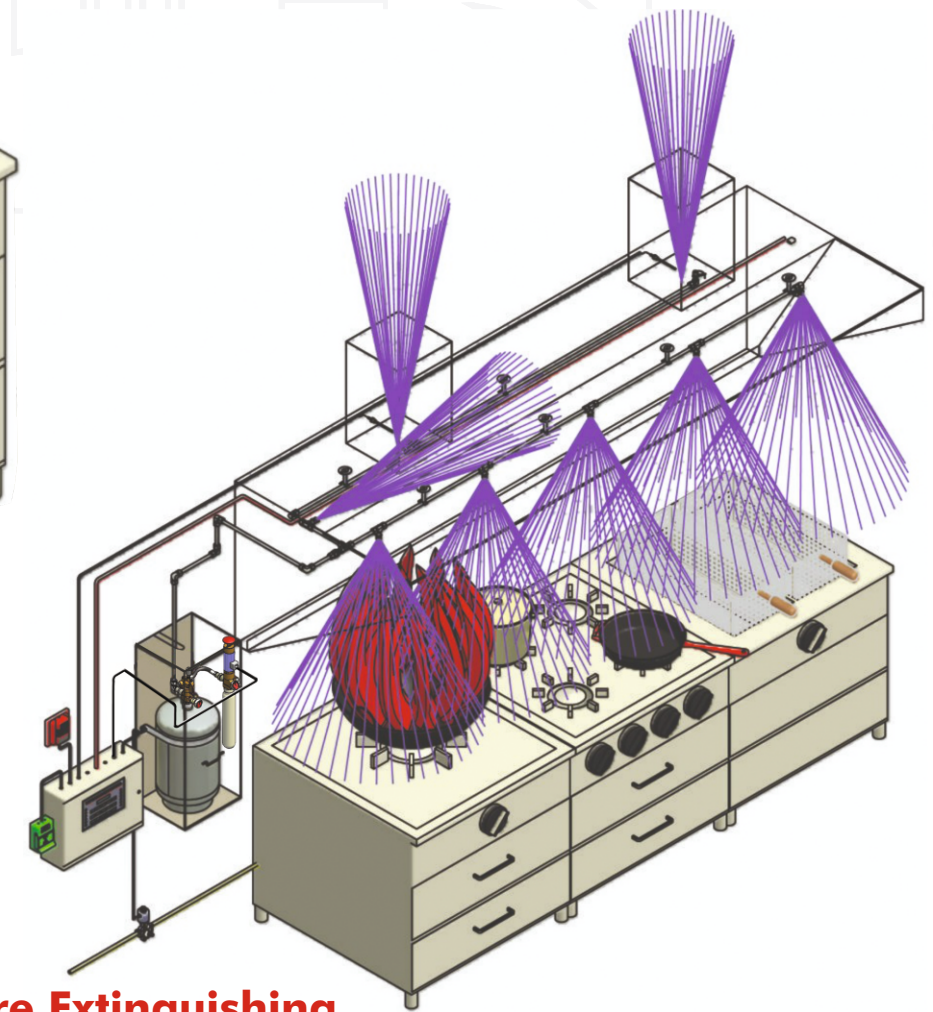
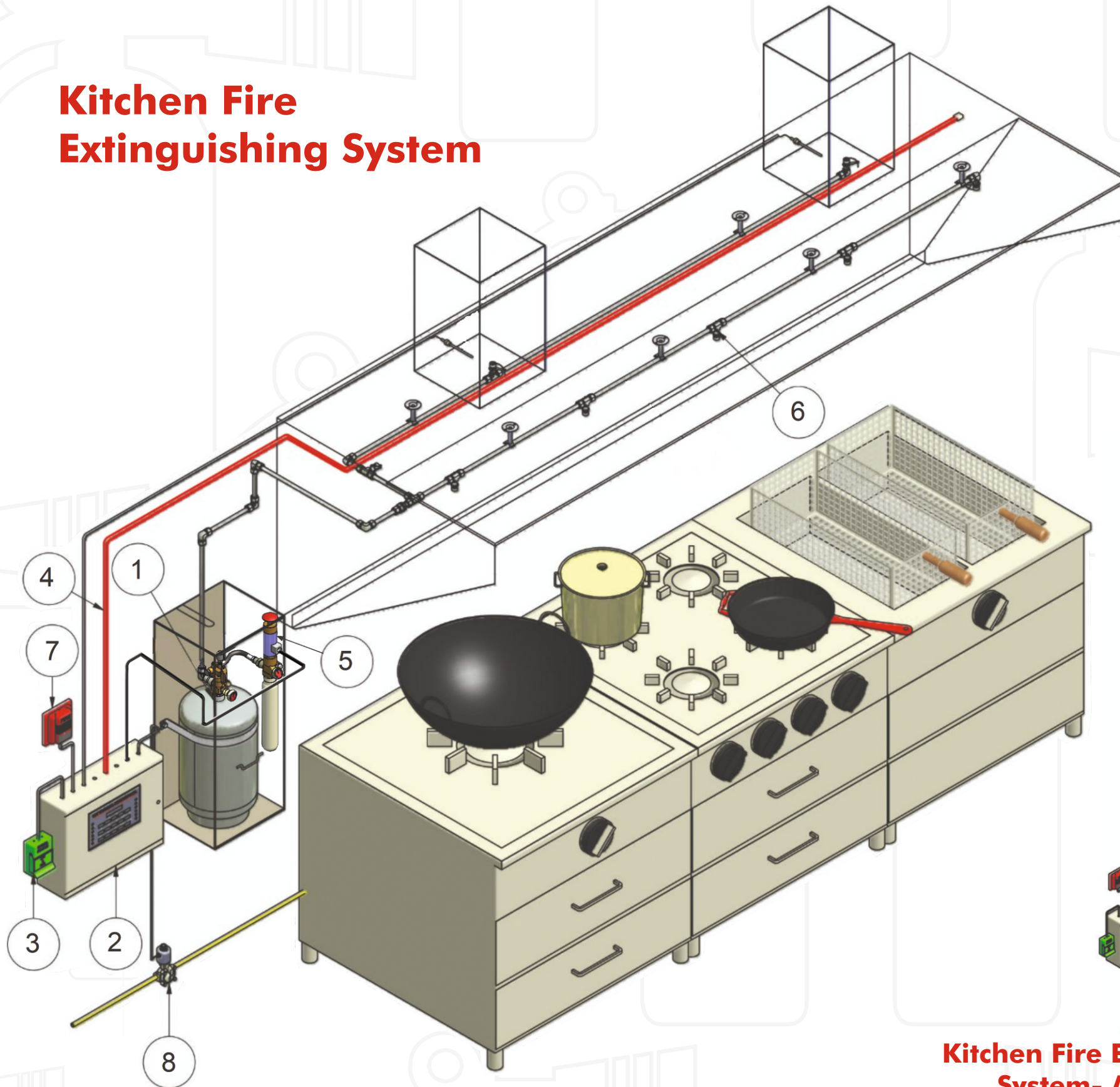


UAE Civil Defence Approval

Kitchen Fire Extinguishing System








Components of Kitchen Fire Suppression System

Sr. No.	Description
1.	Cylinder With Valve and Pressure Gauge
2.	Release Control Panel
3.	Remote Manual Pull Station
4.	Audio Visual Alarm
5.	Electric Actuator
6.	Discharge Nozzle
7.	Heat Sensing Cable
8.	Gas Shut Off Valve



Kitchen Fire Extinguishing System- Activated

FEATURES

- 
24 Hour Protection - An automatic detection and actuation controls ensures protection is always on
- 
Minimal Downtime - Very easy to wipe of chemical, clean the equipment and restart your kitchen.
- 
Unobtrusive Design - Flexible piping configurations allows for a streamlined design and convenient installation that will not interfere with kitchen workflow.
- 
Overlapping Design - gives the convenience of shuffling cooking range order.
- 
Manual Activation - the manual release allows an activation of the system at the first sign of fire, even before it is automatically released.
- 
Non Toxic - it does not release toxic vapours during discharge. It is ideal for the protection of normally occupied premises.
- 
Event Logger - Multiple events are logged which helps in detecting faults/ actions by recording exact date and time of the event.

CONTROL PANEL

- Digital Display
- Battery Back-up
- Turn off other devices as required.
- Emergency Activation Switch



- Battery Charging Indicator
- Fault Indicator
- Pre Audio Visual alarm before Activation
- Automatically Shuts off the Gas Supply Valve on activation

K CLASS CYLINDER

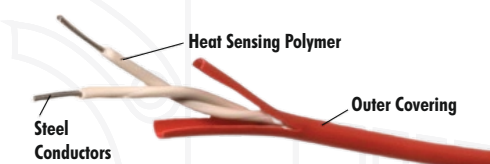
- Stainless steel body
- Available in following Sizes
9 ltrs., 12 ltrs., 15 ltrs., 18 ltrs.,
21 ltrs., 24 ltrs., 27 ltrs., 30 ltrs.

AGENT PROPERTIES

- Appearance : Light Brown
- Freeze Point : -7,0°C
- Specific Gravity : 1.02 – 1.05 g/cm³

HEAT SENSING CABLE

The fixed heat sensing cable, installed inside the kitchen hood for detection of fire in Kitchen Fire Suppression System is comprised of two steel conductors individually insulated with a heat sensitive polymer that are twisted together. At 185°C temperature the heat sensitive polymer insulation breaks down permitting the steel conductors to move into contact with each other. This forms a closed switch contact that is used for activation of system through the control panel & also for signaling an alarm.



OPTIONAL: K CLASS FIRE EXTINGUISHER

- Stainless steel body
- Available in 2 ltrs., 4 ltrs., 6 ltrs., 9 ltrs.

