flamefast
Kitchensafe

PREVENT KITCHEN FIRES
www.flamefastusa.com

ETL
C LISTED US
Intertek
4008212
CONFORMS TO
UL SUBJECT 300A

Kitchensafe Fire Suppression System for Residential Range Top Cooking Surfaces

A cost effective, safe and easy to install automatic fire suppression system for range tops in Residential, Care Home and Student accommodation applications.

The Flamefast Kitchensafe fire suppression system has been developed to meet the requirements of residential kitchens and is tested and approved to UL300A.

The system is available in three models to allow installation and coverage to most sizes of range up to a maximum width of 48 inches. The system is quick and easy to fit and can be installed directly to the wall, inside kitchen cupboards up to a maximum distance of 14 feet 6 inches.

This unique system consists of an easy to clean stainless steel wall mounted cabinet which contains the extinguishing agent cylinder and electronics. The system is supplied with a manifold which houses the nozzles, and a flexible stainless steel hose which connects the nozzles to the cabinet.

Kitchensafe operates automatically in the event of a fire which removes the risk of a person attempting to fight the fire with conventional extinguishers or fire blankets.

The system has a typical fire knock down time within 5 seconds of discharge, allowing the remaining discharge time to cool and render the affected area completely safe. Following system activation the cooking area is easily cleaned in minutes and ready for use, unlike conventional extinguisher types such as dry powder.

The Kitchensafe system has a dedicated interface for remote gas detectors and can also be connected to signal a third party system (BMS, Fire Alarm, Warden Call) to allow indication in a central control area of a fire condition at an independent/remote location such as care home, student accommodation etc. This enables an alarm to be recognized and raised in the central control area. Finally a dedicated energy supply shut off will automatically cut off gas or electric supplies if the system is discharged.
The system requires a 110v AC, 3 amp power supply.

Standard Features (Full specification overleaf):

- Automatic Fuel Cut-Off (in the event of a fire)
- Gas Detection
- Two Stage Temperature Detection
- Building Management System Interface
- Service Reminder
- Rapid Knock Down of Fire
- Environmentally Friendly
- Fast Clean Up Time

Kitchensafe

SYSTEM STATUS
- POWER
- APPLIANCE SUPPLY ON
- FIRE DETECTED
- SENSOR TEMP HIGH
- GAS DETECTED
- SERVICE REQUIRED

FAULT MONITOR
- LOW CYLINDER PRESSURE
- SENSOR FAULT

SILENCE ALARM   LED TEST

KITCHENSAFE - FIRE SUPPRESSION SYSTEM

ETL
C LISTED US
Intertek
4008212
CONFORMS TO
UL SUBJECT 300A

flamefast
Kitchensafe

PREVENT KITCHEN FIRES
www.flamefastusa.com

ETL LISTED C US
CONFORMS TO UL SUBJECT 300A
Intertek
4008212

Kitchensafe Fire Suppression System for Residential Range Top Cooking Surfaces

The Kitchensafe System is a fully automatic domestic & residential fire suppression system which uses state of the art digital technology to sense high temperatures and fire conditions.

This unique system automatically shuts off the fuel supply (gas or electric) in the event of fire being detected thus reducing the risk of re-ignition. The system can also be connected to remote gas detectors and in house building management or fire alarm systems.

The kitchensafe digital technology constantly checks the temperature sensors and firing mechanisms.

The Kitchensafe system is quick and easy to install by a Flamefast trained and approved distributor and only requires a qualified service agent to connect the system fuel cut off. (Electric or Gas). The system consists of a wall mounted cabinet with stainless steel cover which contains the extinguisher cylinder and electronics.

The system is available in three different models as follows
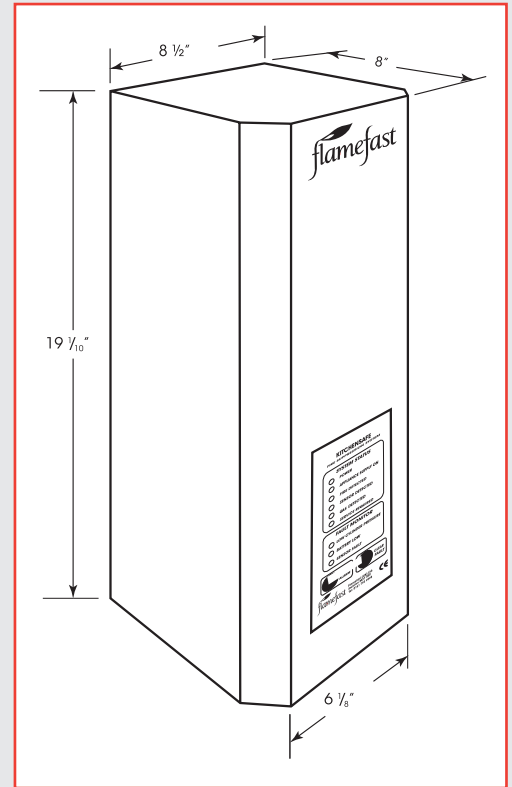
Model KSC 001 – Single Nozzle System
This model has the stainless steel cabinet, containing the extinguishing cylinder, firing actuator, and control panel. A single nozzle manifold is included, which is installed underneath the extraction hood for new or retrofit installations. This single nozzle model is sufficient to cover a range up to $31\frac{1}{2}$ inch maximum width. The sensor to monitor temperature is installed to the underside of the extraction hood.

Model KSC 002 – Twin Nozzle System
This model has the stainless steel cabinet, containing the extinguishing cylinder, firing actuator, and control panel. A Twin nozzle manifold is included that is installed underneath the extraction hood for new or retrofit installations. This twin nozzle model is sufficient to cover a range up to 48 inch maximum width. The sensor to monitor temperature is installed to the underside of the extraction hood.

Model KSC 003 – Single or Twin Nozzles system for integration in to Extraction Hood
This model has the stainless steel cabinet, containing the extinguishing cylinder, firing actuator, and control panel. The numbers of nozzles are dependent on the size of range up to 48 inches max width. The supplied nozzles can then be integrated in to the extraction hood subject to space available to install nozzle adaptor. The sensor to monitor temperature is installed to the underside of the extraction hood.

The system requires a 110volt AC 3amp power supply.

The cabinet containing the cylinder and control panel can be installed adjacent to the canopy or up to 14 feet 6 inches from the manifold or extraction hood where the nozzle(s) are installed. The manifold, nozzle(s) and temperature sensor are installed in the canopy area as per the Kitchensafe installation guidelines. Normal working temperature range +41°F to 140°F.

STANDARD SYSTEM FEATURES

FUEL CUT OFF
To prevent re-ignition, it is recommended that the fuel supply to the appliance is controlled by the system. A standard 110v AC control interface is provided for use with either a gas solenoid or electric switch.

GAS DETECTION
For use with gas appliances. Gas detectors can be wired to the system to prevent asphyxiation. These can be either Natural Gas, LPG, or Carbon Monoxide.

TWO STAGE TEMPERATURE DETECTION
The system has a low and high alarm level. An audible alarm sounds at 122°F to make the user aware that high temperatures have been detected, should the temperature fall back below this level the system will automatically be reset.

Should the temperature continue to rise to 158°F the system will automatically discharge the wet chemical suppression agent, cut off fuel supply and provide signal to third party connection (if fitted)

BMS
A Building Management System output is fitted as standard to the control panel for connection by others.

SERVICE REMINDER
The system will remind the user every 12 months that a service is required. This is in the form of an audible intermittent tone and visual indicator

SYSTEM FAULT INDICATORS INCLUDE:-
• Low Cylinder Pressure
• Sensor Fault

ETL LISTED C US
CONFORMS TO UL SUBJECT 300A
Intertek
4008212