



# Kitchen Protection Systems



GASEOUS  
SUPPRESSION



WATER  
SUPPRESSION



FOAM  
SUPPRESSION



EXPLOSION  
PROTECTION



FIRE  
DETECTION



MILITARY  
& DEFENCE



SPECIAL  
APPLICATIONS



SUPPORT  
SERVICES



# Kitchen Protection Systems

"EVERY SOLUTION FOR YOUR SPECIAL HAZARD PROBLEMS"

*"High pressure water mist and wet chemical fire suppression systems are effective and efficient suppression systems used for extinguishing fires in all kitchen fryer, hot plate and extraction equipment"*



## KITCHEN PROTECTION SYSTEMS

Contemporary commercial cooking environments are more at risk of fire than ever before. This is due to the widespread use of vegetable oils with much lower auto ignition temperatures which not only makes fire in this type of equipment more prevalent, but also making extinguishment and control of these fires significantly more difficult.

Fire Protection Technologies have Wet Chemical and Water Mist Fire Suppression Systems specifically designed to protect commercial cooking equipment from the ravages of fire. These systems are automatic and pre-engineered, and are designed to protect areas associated with ventilation equipment including hoods, ducts, plenums, and filters. The system also protects auxiliary grease extraction equipment and cooking equipment such as fryers; griddles and range tops; upright, natural charcoal, or chain-type broilers; electric, lava rock, mesquite, or gas-radiant char-broilers and woks.

These systems are ideally suitable for use in restaurants, hospitals, nursing homes, hotels, schools, airports, and other similar facilities



## HIGH PRESSURE WATER MIST

The Hydramist® high pressure water mist kitchen fire suppression system has been specifically approved by the UK Loss Prevention Certification Board, (LPCB) for the protection of commercial cooking equipment. The system is unique in that it is based around a high pressure pump unit (15AMPU), which delivers 15 litres of water per minute at a pressure of 100 bar. This high pressure water is then distributed through specifically designed water mist nozzles to extinguish the fire.

The water mist nozzles incorporate fast response glass bulb detection devices which burst at the designed temperature to open the spray nozzle. A unique advantage of these nozzles is that only one detection device is required to operate; all other nozzles operate simultaneously, automatically. This results in a single piping system for both fire detection and extinguishing agent distribution

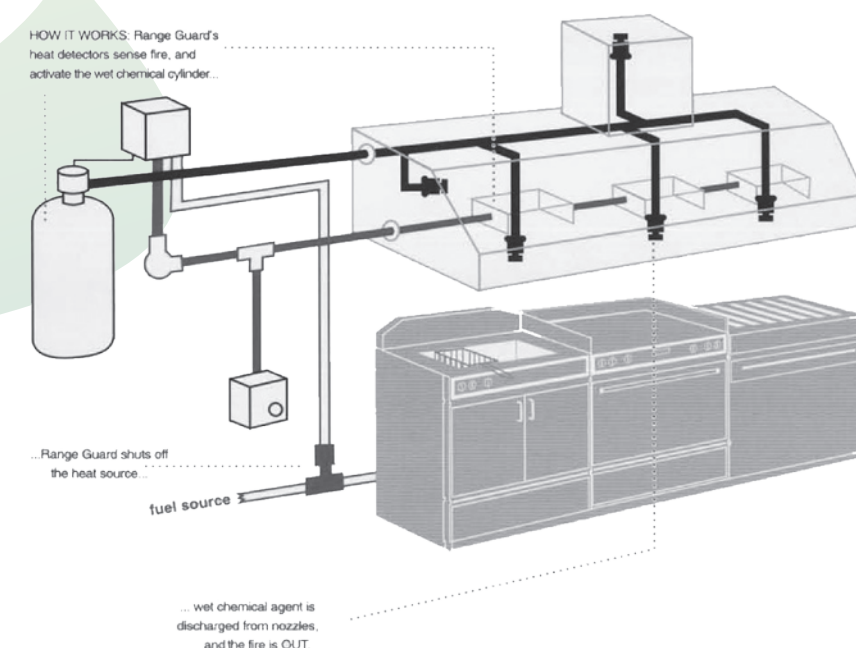
The 15AMPU is housed in a stainless steel wall mounted cabinet and includes manual operation as well as a self-monitoring flow sensor for interface into other fire protection system control panels. The unit offers a stand-alone solution only requiring connection to standard single phase electrical power and potable water.



## WET CHEMICAL FIRE SUPPRESSION

The Badger wet chemical restaurant fire suppression system is a pre-engineered, stored pressure type with a fixed nozzle agent distribution network. It is listed with Underwriters Laboratories, Inc.

The system is capable of automatic detection and actuation as well as remote manual actuation. Additional equipment is available for building fire alarm panel connections, electrical shutdown and/or interface, and mechanical or electrical gas line shut-off applications. The detection portion of the fire suppression system allows for automatic detection by means of specific temperature-rated fusible bulbs, which burst when the temperature exceeds the rating of the link, allowing the system release to actuate.



## PRODUCTS:

### *Gaseous Suppression*



ProInert™ (IG-01, IG-55, IG-100, IG-541)  
Novec 1230™ Fluid (FK-5-1-12)  
FM-200® (HFC-227ea.)  
Carbon Dioxide (CO<sub>2</sub>)  
Hybrid Systems (N<sub>2</sub> / Water)  
Pressure Relief Vents  
Enclosure Integrity Testing Equipment  
Pipe & Fittings

### *Water Suppression*



Water Mist - High Pressure  
Water Mist - Intermediate Pressure  
Water Mist - Low Pressure  
Hybrid Systems (Water / N<sub>2</sub>)  
Monitors & Delivery Systems  
High Speed Deluge

### *Foam Suppression*



Foam Concentrates  
Foam Proportioning  
Foam Delivery Systems  
Foam Concentrate Testing

### *Explosion Protection*



Explosion Suppression  
Explosion Isolation  
Explosion Vents & Pressure Relief  
Spark Suppression  
Explosibility Testing

### *Support Services*



#### ***Design / Engineering:***

- Design Services
- Project Documentation
- Project Management
- Cost Analysis
- System Hydraulics

#### ***Technical Support:***

- Design Verification
- Commissioning
- Hazard / Risk Analysis
- Product After Sales Service
- Field Support

### *Fire Detection*



Linear Heat Detection - Digital  
Linear Heat Detection - Fibre Optic  
Linear Heat Detection - Micro Chip  
Flame Detection  
Video Imaging Detection  
Spark Detection  
Control & Indicating Equipment  
Thermal Imaging Detection

### *Military & Defence*



Military Vehicles  
Naval Vessels

### *Special Applications*



Micro Environment  
Oxygen Reduction  
Kitchen Protection Systems  
Dry Chemical  
Vehicle Systems  
Compressed Air Foam  
Marine & Offshore  
Vapour Mitigation

# 1300 742 296

Unit 1/251 Ferntree Gully Road, Mt. Waverley, Victoria, 3149  
P.O. Box 75, Mt. Waverley, 3149

[www.fire-protection.com.au](http://www.fire-protection.com.au)



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