

# FIRE SUPPRESSION FOR COMMERCIAL KITCHEN

Fires in commercial kitchens often start because of the improved kitchen equipment and advanced cooking oils that operate at higher temperatures. Carelessness such as unattended pots on the stove, leftover grease at the bottom of cooking pans, and putting flammable materials too near the stove add to the danger and heighten the chances of kitchen fires occurring.

It is essential that kitchen safety is ensured by installing a good kitchen fire suppression system that quickly puts fires out before they can do damage.



**FIRE GUARD™**

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CHEMICAL SOLUTIONS

# Range Guard Commercial Cooking Fire Suppression System

The Range Guard Series cylinders are used in Badger pre-engineered wet chemical fire suppression systems for protection of ventilation equipment and appliances associated with commercial cooking operations. The cylinders are factory-filled with Karbaloy™ wet chemical agent and pressurised with nitrogen to 1207 kPa (175 psi) at 21°C. Karbaloy wet chemical agent provides fast, efficient fire suppression, surface cooling, and prevents re-ignition of fire.

Karbaloy agent is discharged through the Range Guard cylinder valve, a brass-alloy, nickel-plated forging, trusted worldwide for over 30 years. The valve has a pressure gauge to facilitate quick inspection and a 100°C fusible plug for safety relief in the event of over-pressurisation due to heating.



## Features

- Flexible system configurations
- Factory filled and pressurised
- No additional hardware required to pressurised or regulate flow
- Rugged, Nickel-Plated Brass Valve
- Durable and easy to clean
- Corrosion resistant white powder coat finish
- Easy to read pressure gauge for instant verification of system readiness

## Approval

- All cylinders conform to DOT and TC specifications
- UL Listed to Standard UL 300
- ULC Listed to Standard ULC/ORD-C1254.6



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ISO 9001: 2008 Certified Company

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YOUR GUARD AGAINST FIRE HAZARDS

# Range Guard Commercial Cooking Fire Suppression System

## Cylinder Assembly



RG – 1.25G      RG – 2.5G      RG-4GM      RG-6G

Model No.	Part No.	Karbaloy Wet Chemical Agent Fill Qty (Litres)	Charge Weight (kg)
RG – 1.25G	60-120001-001	5.03	14
RG – 2.5G	60-120002-001	10.07	25
RG-4GM	60-120006-001	15.14	35
RG-6G	60-120005-001	22.71	51

## System Valve Actuator



Part No.	Thread	Description
87-120042-001	1/8" NPT Port	System Valve Actuator (SVA) must be mounted to every system cylinder valve assembly. The SVA has ports for low profile tubing runs, and is also equipped with a spring loaded plunger that locks the piston in the discharged position, ensuring complete discharge of the cylinder(s) contents.

## Agent Discharge Nozzle



Nozzle Type	Part No.	Thread
ADP	87-120016-001	3/8" NPT Female Thread

## Fusible Links



Detector Type	Part No.	Detector Temperature Rating	Colour	Maximum Exposure Temperature
ML	WK-282664-000	360°F(182°C)	Unpainted	300°F(149°C)

# Range Guard Commercial Cooking Fire Suppression System

## Heat Detector Fenwall



Model	Part No.	Temperature Setting
Detect-A-Fire	12-G27121-000	450°F (232°C)

## Universal Control Head



Part No.	Size (mm)	Operating Temperature Range	Actuation Mode	Number of Extinguishing System Cylinders	Maximum Total Length Copper Actuation Tubing	Minimum Total Length of Copper Tubing
60-120099-001	215(W) x 245(H) x 95(D)	-18°C to 49°C	Electrical, Pneumatic & Manual	1 -12	32.30m (106 ft)	1.52m (5 ft)
				13-20	27.73m (91 ft)	

## A+ Control Box



Part No.	Size (mm)	Operating Temperature Range	Actuation Mode	Number of Extinguishing System Cylinders	Maximum Total Length Copper Actuation Tubing	Minimum Total Length of Copper Tubing
60-120010-001	155(W) x 180(H) x 40(D)	-18°C to 49°C	Pneumatic & Manual	1 - 5	0.91m (3 ft) from A+ to 1st system cylinder	7.0m (23 ft)

## Combination Remote Manual Release



Part No.	Size	Description
60-120110-001	91(W) x 125(H) x 52(D)	The combination Remote Manual Release (RMR) pull station is provided as means of manually actuating the Range Guard fire suppression system from a remote location.