

# ICC-ES Report

# PMG-1166

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Reissued 01/2019  
This report is subject to renewal 01/2020

EVALUATION SUBJECT:

## EXTINGUISHING SYSTEM UNITS FOR RESIDENTIAL RANGE TOP COOKING SURFACES

**DIVISION:**

23 00 00—MECHANICAL

**SECTION:**

23 38 13—KITCHEN HOODS, GREASE DUCTS

Report Holder:

**GUARDIAN SAFETY SOLUTIONS  
INTERNATIONAL, INC.**

Look for the ICC-ES marks of Conformity!



## ICC-ES PMG Product Certificate

**PMG-1166**



Effective Date: January 2019

This listing is subject to re-examination in one year.

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CSI: DIVISION: 23 00 00—MECHANICAL  
Section: 23 38 13—Kitchen Hoods, Grease Ducts

### Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Extinguishing System Units for Residential Range Top Cooking Surfaces

Listee: Guardian Safety Solutions International, Inc.  
8701 Carpenter Freeway Suite 230  
Dallas, Texas 75241  
[www.guardianssi.com](http://www.guardianssi.com)

### Compliance with the following codes:

2018, 2015, 2012 and 2009 *International Mechanical Code*® (IMC)  
2018, 2015, 2012 and 2009 *International Fire Code*® (IFC)  
2018, 2015, 2012 and 2009 *Uniform Mechanical Code*® (UMC)\*

\* *Uniform Mechanical Code* is a copyrighted publication of the International Association of Plumbing and Mechanical Officials

### Compliance with the following standards:

UL Subject 300A-2006 (3<sup>rd</sup> Ed), Extinguishing System Units for Residential Top Cooking Surfaces  
UL 1254-2013 (4<sup>th</sup> Ed), Standard for Pre-Engineered Dry Chemical Extinguishing System Units  
UL 8-2016 (7<sup>th</sup> ed.), Water Based Agent Fire Extinguishers  
UL 38-2008 (8<sup>th</sup> Ed), Manual Signaling Boxes for Fire Alarm Systems  
CAN/ULC-S554-2016(3<sup>rd</sup> Ed), Standard for Water Based Agent Fire Extinguishers

### Identification:

Extinguishing System Units for Range Top Cooking Surfaces shall be marked with:  
a) manufacturer's recognized name or trademark  
b) product name and/or model number  
c) the ICC-ES PMG listing mark

### Installation:

Extinguishing System Units for Residential Range Top Cooking Surfaces shall be installed in accordance with the manufacturer's instructions and applicable codes.

Additional equipment or components necessary to install the system in accordance with the manufacturer's instructions and limitation listed in the owner's manual, are to be provided by the authorized installer, if not purchased with the basic system (i.e. electrical wire, wire mold, shut-off

components, etc.). Additional equipment and components may be obtained from an authorized Guardian Safety Solutions International distributor or the manufacturer.

#### Model:

Guardian Systems are designed for residential appliances and for use in protecting residential-grade appliance when used in public or otherwise (quasi-) commercial spaces and are not intended to protect against or extinguish fires on nearby countertops or inside range tops.

Each system consists of a pre-assembled extinguisher kit, piping kit and detection kit ready for installation in the kitchen cabinet and range hood over the stove.

Models 1384-A, 2-1/2 lb. capacity, stored pressure type, wet chemical automatic extinguisher units designed to discharge wet chemical solution from fixed nozzles for the extinguishment of fires occurring on conventional residential gas or electric range tops, not exceeding 36 in. width, which are ventilated by a under-the-cabinet exhaust hood. These units are intended for use in ambient temperatures between +32°F and +120°F. The Model 1384-A extinguisher unit has demonstrated the capability of operating automatically within 90 s after auto ignition of a 10 in. diameter cooking vessel when installed in accordance with the manufacturer's installation manual.

Models 1384-B, 4.9 lb. capacity, stored pressure type, wet chemical automatic extinguisher units designed to discharge wet chemical solution from fixed nozzles for the extinguishment of fires occurring on conventional residential gas or electric range tops, not exceeding 36 in. width, which are ventilated by a under-the-cabinet exhaust hood. These units are intended for use in ambient temperatures between +32°F and +120°F. The Model 1384-B extinguisher units have demonstrated the capability of operating automatically within 90 s after auto ignition of a 10 in. diameter cooking vessel when installed in accordance with the manufacturer's installation manual.

Fuel shutoffs are required to be installed with both Model 1384-A and 1384-B as indicated in the manufacturer's installation instructions, gas shutoff to the range may be accomplished by mechanical or electrical means. If the gas supply is shutoff electrically, normally open- or normally closed-type valves may be available for this purpose. When a normally open valve is used, gas shutoff will not occur when electrical energy is not available to the extinguisher unit. Normally open-type gas shutoff valves should only be used when determined to be acceptable by the Authority Having Jurisdiction. For electric stoves the use of either an electric contactor or shunt-trip breaker is required. A micro switch is supplied with a load rating of 21amp, 1H.P. at 125 – volt AC. All electrical wiring should be installed by a licensed electrician and in compliance with all State and local codes.

Model G300-A, 5 lb. capacity, stored pressure type, wet chemical automatic extinguisher unit designed to discharge wet chemical solution from fixed nozzles for the extinguishment of fires occurring on conventional residential gas or electric range tops not exceeding 36 in. width (gas) or 42 in. width (electric), which are ventilated by a under-the-cabinet exhaust hood. These units are intended for use in ambient temperatures between +32°F to +120°F.

Model G300-B, 4.9 lb. capacity, stored pressure type, wet chemical automatic extinguisher unit designed to discharge wet chemical solution from fixed nozzles for the extinguishment of fires occurring on conventional residential gas or electric range tops not exceeding 36 in. width (gas) or 42 in. width (electric), which are ventilated by a under-the-cabinet exhaust hood. These units are intended for use in ambient temperatures between +32°F to +120°F.

Fuel Shutoffs are supplied with both the Model G300-A and G300-B systems and should be installed in accordance with the manuals supplied. The electric and gas shutoff activate during system activation by two methods. **(1)** - Using the interconnect cable (**standard**) from the Main CPU board terminal strip (5 & 6) to the shutoff completes a hardwired signal which in turn activates the shutoff unit. **(2)** - When using the Sonic Receiver (**optional**), the shutoff continuously monitors for a "sonic" alarm from the Main CPU board located in the in the system enclosure. The Sonic Receiver responds to the audible signal and activates the shutoff. Both methods cause all gas and electrical power to the stove to be shutoff. There **is not a requirement** for an electrician to install either the electric or gas shutoff, since both are plug in devices. The gas valve used in conjunction with the gas shutoff should be installed by a licensed plumber in accordance with all State and local codes.

## Conditions of Listing:

1. The Extinguishing System Units for Residential Range Top Cooking Surfaces recognized in this listing must be installed in accordance with the manufacturer's published installation instructions and the applicable codes.
2. Fuel shut-offs must be installed in order to validate both the ICC-ES report and UL file number EX3940.
3. The extinguisher kit and flex hose shall be installed within a cabinet or other protected space in accordance with manufacturer's instructions. Guardian Systems may be installed in range hoods of either a duct-free or ducted design.
4. An automatic activation for fire suppression system is required, if provided the manual activation device shall be in accordance with Section 904.11.1 of the IBC.
5. Extinguishing System Units for Residential Range Top Cooking Surfaces is not to be used over cooking appliances which are used for commercial purposes when appliances is primarily used for the preparation of food for compensation, trade or services rendered.
6. Extinguishing System Units for Residential Range Top Cooking Surfaces recognized in this listing are under a quality control program with annual surveillance inspections by ICC-ES.