

ICC-ES PMG Listing
ESR-3661


Effective Date: October 2014

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

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A Subsidiary of the International Code Council®

DIVISION: 10 00 00—SPECIALTIES
Section: 10 32 00—Fireplace Specialties

fireplaces in accordance with International Energy Conservation Code® (IECC) section R402.4.

REPORT HOLDER:

FIELD CONTROLS, LLC.
 2630 Airport Road
 Kinston, NC 28504
www.fieldcontrols.com

EVALUATION SUBJECT:
AUTOMATIC FIREPLACE DAMPER
1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012 and 2009 *International Fuel Gas Code*® (IFGC)
- 2015, 2012 and 2009 *International Mechanical Code*® (IMC)
- 2015, 2012 and 2009 *International Residential Code*® (IRC)
- 2015, 2012 and 2009 *International Energy Conservation Code*® (IECC)

Compliance with the following standards:

- ICC-ES LC1019 - PMG Listing Criteria for Automatic Vent Damper Devices for Use Outdoors On Fireplace Chimneys
- ANSI Z21.66/CGA 6.14-1996 Automatic Damper Devices for Use with Gas-Fired Appliance
- CSA International Requirements No. 2.03 US Automatic Vent Damper Devices for use Outdoors on Fireplace Chimneys-2003

Properties Evaluated

- Air Leakage Rate

2.0 USES

The Field Controls Flue Sentinel® FSE and FSM Series electronic fireplace damper is installed at the top of chimney, automatically opens when gas logs are turned on, and closes when gas logs are turned off. Thus, it seals chimney and eliminates cold drafts from outside. For air leakage protection of building envelop, the flue damper in closed position is a suitable alternative to replace glass doors on

3.0 DESCRIPTION

The Field Controls Flue Sentinel® FSE Series Electronic Fireplace Damper consists of a stainless steel pipe and blade assembly with a solid-state controller housed in a weather resistant enclosure, available in diameters from 6" to 24". The damper is installed outdoors on the top of the chimney of a gas fired fireplace. The damper automatically opens the flue outlet when the fireplace is turned on and automatically closes off the flue outlet when the fireplace is turned off. When the fireplace is turned on, a 24 volt signal is sent by the fireplace control to the damper controller. The damper controller motor then rotates the damper blade, which is indexed to a cam, to the open position to allow products of combustion to pass through the flue outlet. After the cam proves the damper is in the open position the fireplace controller then switches 24 volts from the motor to the main gas valve or ignition system which allows gas to flow to the appliance. When the fireplace is turned off the fireplace control removes the 24 volts signal to the damper main gas valve or ignition system shutting off fuel to the appliance. After a 30 to 40 second delay, the fireplace control sends power to the damper controller motor which then rotates the damper blade to the closed position. The unit then resets itself for the next operation. All materials exposed to the combustion air stream are non-combustible.

The Field Controls Flue Sentinel® Millivolt (FSM) Fireplace Damper is the same as the FSE but designed to operate with millivolt, standing pilot gas log fireplaces.

By closing off the flue outlet when the fireplaces is not is use, the damper prevents drafts and conserves energy by preventing heat in the home from escaping through an open flue.

4.0 INSTALLATION

The Field Controls Flue Sentinel® Electronic Fireplace Damper must be installed in accordance with the manufacturers published installation instructions.

Installer must verify that gas is not allowed to the appliance unless the Field Controls Flue Sentinel® damper is in the open position.

Installation must require that any manual damper is removed.

5.0 CONDITIONS OF USE

The Field Controls Flue Sentinel® FSE and FSM Series Electronic Fireplace Damper described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Installation must comply with this report the manufacturer's published installation instructions and the applicable code. If there is a conflict between the installation instructions and this report, this report governs.
- 5.2 When installed on an existing fireplace any manual damper blade must be removed,
- 5.3 Appliances served by the device must be limited to those complying with ANSI 21.60, Decorative Gas Appliances for Installation in Solid Fuel Burning Fireplaces.
- 5.4 Minimum operating temperature is -40°F (-40°C).
- 5.5 Field Controls flue automatic fireplace dampers are manufactured by Field Controls in Kinston, North Carolina with annual surveillance inspection by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with ICC-ES PMG listing criteria for automatic vent damper devices for use outdoors on fireplace chimneys
- 6.2 Test Reports on air leakage in accordance with AMCA 500-D-12
- 6.3 Test reports to ANSI Z21.66/CGA 6.14 and CSA International Requirement No. 2.03

7.0 IDENTIFICATION

The unit and the package must be permanently and legibly marked with the manufacturer's name or trademark, the model number, and the PMG listing mark.