

FIRERASER® AUTOMATIC ACTUATION PACKAGE FOR ECARO-25® AND FM-200® CLEAN AGENT SYSTEMS



FM-200 is also known by its ASHRAE designation HFC-227ea

DESCRIPTION

The Fireraser Automatic Actuation Kit (P/N 70-209 used with HFC-125 systems, and P/N 70-208 used with systems using HFC-227ea) provides a means for automatically detecting a fire and releasing the extinguishant. This type of actuation is used in situations where a person might not always be present to manually actuate the system in the event of a fire. Such a situation might include a small server room, a computer cabinet or a process control room.

The automatic actuation package includes an SHP-Pro control panel (battery and battery cables included), two photo detectors, a horn/strobe and two instructional signs.

SHP-PRO CONTROL PANEL

When used with photo (smoke) detectors, the SHP-Pro conventional control panel is designed to provide reliable detection and control for the Fireraser suppression system. The SHP-Pro is a microprocessor based system which can easily be configured for a wide range of applications. Features include:

- Cross zone, sequential, manual release, abort, and supervisory detection types
- Three Class B, Style Y notification appliance circuits rated for 2.0 amps @ 24 VDC
- Dedicated release circuits
- Five Class B, (Style B) initiating circuits
- Optional Class A module for notification appliances and initiating circuits
- Alpha-numeric LED display for status and troubleshooting
- Programmable pre-discharge and discharge timers
- Resettable and continuous auxiliary output power
- Integral 4 amp power supply
- Small surface or flush mount enclosure with removable door
- Built-in Gentex and System Sensor synch protocol
- UL/FM approved



LOW-PROFILE PLUG-IN SMOKE DETECTOR

The 100 Series smoke detector is designed to meet the performance criteria designated by UL. It features a sensing chamber that is sealed against back pressure air flow, dirt, and insects. This chamber is protected by a fine mesh screen which can be cleaned or replaced. Features include:

- Sleek, low-profile design
- Two LEDs blink in standby, providing 360° visibility
- Field sensitivity metering of detector to meet the requirements of NFPA 72



Specifications

- 3% ±.7%/ft.
- Shipping Weight: 3.6 oz. (102 g)
- Size: 1.66" h. (42 mm)
- 6.1"/155 mm dia. flanged base
- Construction: Flame retardant thermoplastic
- Temperature: 32°F to 120°F (0° to 49°C)
- 0-3000 fpm (0-15.2 m/s)
- Humidity Range: 10%-93% RH noncondensing
- Smoke Detector Spacing: On smooth ceilings (as defined in NFPA 72), spacing of 30 feet (900 sq. ft.) may be used as a guide. Other spacing may be used depending on ceiling height, high air movement, and other conditions or response requirements.

Form No. M.1.05.01-4

SELECTABLE CANDELA EVACUATION HORN/STROBE

The horn strobe features a low profile and offers dependable audible and visual alarms for the FireRaser system. The evacuation horn offers a continuous or synchable temporal 3 in 2400Hz and mechanical tone, a chime as well as a whoop tone. All tones are easy for the professional to change in the field by using switches. The horn strobe is shipped from the factory on the temporal lower frequency mode and it comes standard with a rugged cast metal mounting plate.



The horn strobe is listed for use with fire protective systems and is warranted for three years from date of purchase.

Features include:

- 24 VDC
- Input Terminals 12 to 18 AWG
- Switch Selection for High or Low dBA
- Switch for Chime, Whoop, Mechanical and 2400Hz Tone
- Switch for Continuous or Temporal 3 (not available on whoop tone)
- Tamperproof Re-entrant Grill
- Surface Mount with the Surface Mount Box
- Silence Horn While Strobes Remain Flashing
- Rugged Die Cast Metal Mounting Bracket
- True Evacuation Tone

SIGNS

Instructional signs are supplied in order to provide a system in which the function of all devices is easy to understand. Fike offers several different “Standard” signs to comply with NFPA and other industry requirements. All signs are durable plastic and backed with a strong adhesive for easy installation. Signs are typically installed at all entrances and near any device for which the extra explanation is helpful.

FM-200 INSTRUCTIONAL SIGNS

System Alarm Sign (P/N 02-10105)

This sign is provided to alert personnel that the room is protected with a clean agent system using FM-200 (HFC-227ea is the ASHRAE designed for FM-200 molecule) system and that they should not enter the area when the alarm sounds. This sign measures 9” x 6” x 1/16” (229 mm x 152 mm x 1.6 mm).



System Discharge Sign (P/N 02-10138)

The purpose of this sign is to alert personnel that the room is protected with FM-200 system and that they should not enter the area when the alarm sounds. This sign measures 9” x 6” x 1/16” (29mm x 152mm x 1.6mm). The sign should be placed adjacent to each audible /visual device (typically located outside the area) used to notify personnel that the system has discharged.



INSTRUCTIONAL SIGNS

System Alarm Sign (P/N 02-10309)

The purpose of this sign is to alert personnel that the room is protected with an HFC-125 system and they should not enter the area when the alarm sounds. The sign measures 9" x 6" 1/16" (229mm x 152mm x 1.6mm).



System Discharge Sign (P/N 02-10313)

The purpose of this sign is to alert personnel that the room is protected with an HFC-125 system and that they should not enter the area when the alarm sounds. This sign measures 9" x 6" x 1/16" (229 mm x 152 mm x 1.6 mm). The sign should be placed adjacent to each audible/visual device (typically located outside the area) used to notify personnel that the HFC-125 system has discharged.

