

# SG-FK5112 Fire Extinguishing System

Today's Sustainable Clean Agent Solution

The SG-FK5112 Clean Agent Fire Suppression utilizes the FK-5-1-12 extinguishing medium. FK-5-1-12 fluid is a clear, colorless and low odor liquid perfectly suited to protect high value assets in area that may be normally occupied, in locations where clean-up of other agent is problematic, when storage space for a fire suppression agent is restricted, or when an electrically non-conductive agent is required.

The FK-5-1-12 agent is stored as a liquid in cylinder assemblies designed specifically for the application and charged to a fill density of 0.5kg/L to 1kg/L. FK-5-1-12 is available with 25 bar, 42 bar and 50 bar, and come with a wide range of cylinder sizes options.



- FAST ACTION**  
 Designed to discharge in 10 seconds upon activation, thus less time for fire to grow or damage.
- CLEAN**  
 Discharge as a gas reading into all protected facility leaving NO residue to damage sensitive equipment or costly clean ups.
- PEOPLE-SAFE**  
 One of the safest clean agent available that is suitable for occupied areas.
- ENVIRONMENTAL FRIENDLY**  
 Zero Ozone Depletion Potential (ODP), short atmospheric life time.
- TRUSTED CHOICE**  
 FK-5-1-12 is one of the most trusted agent for fire extinguishing systems.

## SG-FK5112 Cylinders Specification

### TPED Welded Cylinders

| Cylinder Volume (L) | Pressure (Bar) | OD (mm) | Valve Size (inch) | Total Height (mm) | Overall Height with Valve (mm) |
|---------------------|----------------|---------|-------------------|-------------------|--------------------------------|
| 9                   | 25             | 273     | 1" Thread         | 377               | 571                            |
| 16.6                | 25             | 228.6   | 1" Thread         | 578               | 761                            |
| 32                  | 25             | 324     | 1" Thread         | 579               | 730                            |
| 32                  | 25             | 324     | 1-1/2" Thread     | 584               | 730                            |
| 52                  | 25             | 324     | 1-1/2" Thread     | 844               | 990                            |
| 100                 | 25             | 406     | 1-1/2" Thread     | 1019              | 1187                           |
| 120                 | 25             | 406     | 1-1/2" Thread     | 1182              | 1350                           |
| 120                 | 25             | 406     | 2" Thread         | 1251              | 1350                           |
| 150                 | 25             | 406     | 2" Thread         | 1437              | 1596                           |
| 180                 | 25             | 462     | 2" Thread         | 1317              | 1493                           |
| 200                 | 25             | 462     | 2" Thread         | 1447              | 1623                           |
| 240                 | 25             | 508     | 2" Thread         | 1468              | 1656                           |
| 240                 | 25             | 508     | 3" Flange         | 1523              | 1656                           |
| 300                 | 25             | 610     | 3" Flange         | 1363              | 1506                           |
| 369                 | 25             | 610     | 3" Flange         | 1608              | 1751                           |



The cylinders are available with both mild steel welded type of TPED 2010/35/EU Standard and Chromium Molybdenum Alloy Steel Seamless type of ISO 9809-1 Standard.

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## SG-FK5112 Cylinders Specification

### TPED Seamless Cylinders

| Cylinder Volume<br>(L) | Pressure<br>(Bar) | OD<br>(mm) | Valve Size<br>(inch) | Total Height<br>(mm) | Overall Height with Valve<br>(mm) |
|------------------------|-------------------|------------|----------------------|----------------------|-----------------------------------|
| 10                     | 42/50             | 140        | 1" Thread            | 861                  | 956                               |
| 20                     | 42/50             | 204        | 1" Thread            | 831                  | 926                               |
| 30                     | 42/50             | 204        | 1" Thread            | 1166                 | 1261                              |
| 50                     | 42/50             | 229        | 1-1/2" Thread        | 1496                 | 1609                              |
| 80                     | 42/50             | 360        | 1-1/2" Thread        | 1081                 | 1194                              |
| 100                    | 42/50             | 360        | 1-1/2" Thread        | 1296                 | 1409                              |
| 140                    | 42/50             | 406        | 2" Thread            | 1385                 | 1515                              |
| 180                    | 42/50             | 406        | 2" Thread            | 1715                 | 1845                              |

### DOT Welded Cylinders

| Cylinder Volume<br>(L) | Pressure<br>(Bar) | OD<br>(mm) | Valve Size<br>(inch) | Total Height<br>(mm) | Overall Height with Valve<br>(mm) |
|------------------------|-------------------|------------|----------------------|----------------------|-----------------------------------|
| 29                     | 25                | 254        | 1-1/2" Thread        | 753                  | 877                               |
| 52                     | 25                | 406        | 1-1/2" Thread        | 600                  | -                                 |
| 106                    | 25                | 406        | 1-1/2" Thread        | 1035                 | -                                 |
| 147                    | 25                | 406        | 2" Thread            | 1377                 | -                                 |
| 227                    | 25                | 508        | 2" Thread            | 1408                 | -                                 |
| 275                    | 25                | 508        | 3" Thread            | 1666                 | -                                 |
| 369                    | 25                | 610        | 3" Thread            | 1572                 | -                                 |

Note: Liquid level indicator available as option for cylinders 100L Capacity and above..  
Dimensions shown subjected to cylinder manufacturer's standard  $\pm$  tolerance.

### SG-FK5112 Components





# HCVR-3 Conventional Fire Alarm & Releasing Panel

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## DESCRIPTION

The HCVR-3 is a 3 zone conventional releasing fire alarm control panel that is UL Listed and FM Approved for releasing.

The HCVR-3 can be configured to activate releasing by a single zone or combination of any two zones. The LCD display is used to show the countdown timer during activation of the releasing sequence.

The HCVR-3 is fully programmable using simple menu options. The panel is a single board construction which provides an easy replacement solution. It is also compatible with a wide range of devices.

- UL 864 Listed and FM Approved
- Three detection zones
- Any single zone or any combination of zones can be configured to release
- Fully programmable using simple menu options
- Simple, single board construction
- Installer friendly
- Compatible with wide range of detection devices
- Configurable first stage NAC delays
- Configurable detection delays
- Built-in Manual Release switch and separate circuit
- Compatible with FirePro Xtinguish™
- Compatible with various releasing valves
- Configurable releasing delays up to 60 seconds in 5 second intervals
- Configurable releasing duration up to 5 minutes in 5 second intervals
- Releasing countdown timer displayed on the LCD
- Supports up to seven HCVR-SDU or HCVR-AB
- Built-in relays for Fire, Trouble, Stage 1, Stage 2, Extract and Local Fire

## SPECIFICATION

|                                     |   |
|-------------------------------------|---|
| Supply Voltage                      | 115VAC (50hz/60hz) or 230VAC (50hz/60hz)                          |
| Power Supply DC Rating              | 24V 3 Amps  |
| Mains Supply Fuse                   | 1.6 Amps 250V   |
| Dimensions                          | 14.5" (W) x 12.2" (H) x 3.5" (D)                                  |
| Weight                              | 12.3 lbs. w/o batteries   |
| Color                               | Red or gray   |
| Material                            | 1.2mm mild steel  |
| Max. Battery Size                   | 7Ah 12V (2 per panel)   |
| RS-485 Serial Bus                   | Maximum line impedance 120 Ohms                                   |
| Trouble Contact Rating              | 30VDC 1 Amp   |
| Local Fire Contact Rating           | 30VDC 1 Amp   |
| Fire Contact Rating                 | 30VDC 1 Amp   |
| 1st Stage Contact Rating            | 30VDC 1 Amp   |
| 2nd Stage Contact Rating            | 30VDC 1 Amp   |
| EXTRACT Output                      | 30VDC 1 Amp contacts for (NO) and (C)                             |
| EXISTING Output Rating              | 18 to 28VDC 1 Amp max load for 5 minutes and voltage reversing DC |
| NAC Output Rating                   | 0.5 Amp per output  |
| Detection Zone End of line resistor | 6K8 Ohms 5% resistor  |
| NAC Output                          | 10K Ohms 5% resistor  |
| Stand by Current                    | 86 mA   |
| Alarm Current                       | 620 mA  |
| Operating Humidity                  | 95% RH Non-Condensing   |
| Operating Temperature               | -5°C to +40°C (23°F to 104°F)                                     |

Continued on back.

Specifications subject to change without notice.

|                                  |                         |  |
|----------------------------------|-------------------------|--|
| <b>PRODUCT LISTINGS</b>          |                         |  |
| SIGNALING<br><br>LISTED<br>S6468 | <br>APPROVED<br>3046396 | <br>California State<br>Fire Marshal<br>7165-0410:0206 |

# Conventional Fire Alarm & Releasing System

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## HOCHIKI COMPATIBLE DEVICES

| MODEL                            | DESCRIPTIONS  |
|----------------------------------|---|
| <b>PANEL ACCESSORIES</b>         |   |
| HCVR-SDU                         | Remote Status Display Unit                                    |
| HCVR-AB                          | Ancillary Board   |
| HCVR-SQA                         | Sequential Activator  |
| HCVR-DS-R                        | Disconnect Switch, Red  |
| <b>DETECTORS</b>                 |   |
| SOC-24V / SOC-24VN               | Photoelectric Smoke Detector                                  |
| DCD-135                          | 135° Fixed Temperature Rate of Rise Heat Detector             |
| DCD-190                          | 190° Fixed Temperature Rate of Rise Heat Detector             |
| <b>BASES</b>                     |   |
| NS6-220                          | 6" base, 93mA draw, 24V                                       |
| NS4-220                          | 4" base, 93mA draw, 24V                                       |
| <b>PULL STATION/ABORT SWITCH</b> |   |
| HPS-SAK/HPS-DAH/HPS-SAH/HPS-DAK  | Conventional Manual Pull Station for Fire Suppression Release |
| HCVR-AS-R                        | Abort Switch, Red   |
| <b>NOTIFICATIONS</b>             |   |
| FBB-150K                         | 6" Fire Alarm Bell, 24V                                       |
| HEC3-24WR                        | Wall-mount Horn Strobe, 24V                                   |

## Typical Engineered System Layout

