

# SG-227ea Clean Agent Fire Extinguishing System

Today's Sustainable Clean Agent Solution



The SG-227ea Clean Agent Fire Suppression utilizes the HFC-227ea extinguishing medium. HFC-227ea is a colorless and odorless agent that leaves no residue, 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 HFC-227ea agent is stored in cylinder assemblies designed specifically for the application and charged to a fill density of 0.5kg/L to 1kg/L. 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**  
HFC-227ea is one of the most trusted agent for fire extinguishing systems.

## SG-227ea 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-227ea Cylinders Specification

### TPED Seamless Cylinders

Cylinder Volume	Pressure	OD	Valve Size	Total Height	Overall Height with Valve
(L)	(Bar)	(mm)	(inch)	(mm)	(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	Pressure	OD	Valve Size	Total Height	Overall Height with Valve
(L)	(Bar)	(mm)	(inch)	(mm)	(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-227ea 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.



# 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*

