



THE WORLD'S FINEST FIRE DETECTION SYSTEMS SINCE 1918

# SUPPRESSION



# FirePro. XTINGUISH™

PRODUCT BROCHURE



# ABOUT US

Hochiki Corporation, a world leader in fire protection equipment, was founded in Japan in 1918. Since then, eighteen subsidiaries have been formed around the world, including manufacturing locations in Japan, the UK, and at Hochiki America Corporation in the United States.

Hochiki America has been manufacturing in Southern California since 1972 and is very proud of its state-of-the-art manufacturing facility in Buena Park, California. For over 45 years, Hochiki America has been a supplier of quality smoke detectors to the fire alarm industry. Many of their customers are well-recognized companies such as Simplex (over 20 years), Silent Knight (over 20 years), Radionics, Bosch, Potter, Napco, and Fike. These longstanding relationships are no coincidence - they are due to the fact that Hochiki offers the highest in quality workmanship at competitive pricing. Quality is "built in" using only the finest in raw materials and the most advanced automated testing and manufacturing equipment available anywhere.

Hochiki America's internal operating procedures are per ISO 9001, the highest and most recognized standard in the industry. And as required for the United States and other international markets, their products are listed and approved by recognized agencies such as Underwriters Laboratories and Factory Mutual.

With many companies moving the majority of their manufacturing offshore, it is worth noting that Hochiki America doubled its manufacturing capabilities in Southern California in 2007-2008. It increased its production staff by over 150% and added two new automated surface-mount printed circuit assembly lines to its operation. Hochiki believes that the secret to reliability is controlling the manufacturing process every step of the way; testing, testing and retesting everything it makes all the way through the production process.

Hochiki America adds even more value to its products by powering up and "burning-in" every device it makes before subjecting it to final acceptance testing. And Hochiki provides expert technical and after-market support and technical training to assure that its products are used properly and in a responsible way.

Hochiki created a fire suppression division in 2013 and has experienced tremendous success with their condensed aerosol and kitchen fire suppression systems, along with their high-sensitivity air-sampling smoke detection systems. Hochiki is constantly moving ahead and looking to the future; for you and your customers.

Why Hochiki America? Simply put, Hochiki America offers the most reliable and competitive fire alarm and fire suppression products available today. Make Hochiki America your choice for all of your fire alarm and fire suppression needs.





- No door fan test required
- Electrical and / or Thermal activation
- Installed in more than 110 countries around the world
- Modular system, easily expanded if needed

### PROPERTY

More Effective Than Halon  
 More Effective Than CO2  
 Non-Corrosive, Non-Conductive

### SAFE

Non-Toxic  
 Life Sustaining (No Oxygen Depletion)  
 Non-Pressurized  
 Fail Safe  
 Fully Automatic  
 Suitable for Class A, B and C Fires  
 Extremely Fast Extinguishing

### ECOLOGICAL

Zero Ozone Depleting Potential  
 Zero Global Warming Potential  
 Negligible Atmospheric Lifetime  
 EPA SNAP Listed and Green Listing

### ECONOMICAL

Minimizes Consequential Damage  
 No Mechanical Installation  
 Simple Design and Installation  
 Minimal Maintenance  
 Substantial Cost Savings Over Other Agents  
 UL Listed Service Life = 15 Years

## APPLICATIONS

- Control Rooms
- Electrical Sub-Stations
- Electrical Panels and Cabinets
- Sub-Floor / Above-Ceiling
- Storage Containers / Trailers
- Enclosed Machinery
- Wind Turbines
- Solar Inverters
- Water Treatment Plants / Utilities
- Marine / Railways
- Warehouses
- Cable Tunnels / CEVs
- Heavy Equipment / Vehicles
- More!

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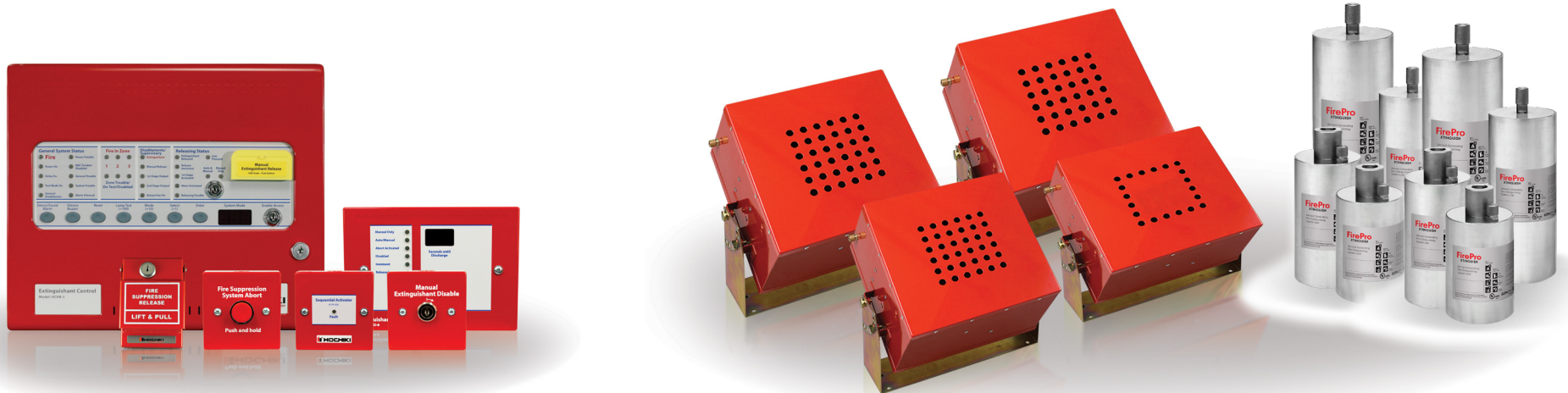
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- AVENGER SUPPRESSION SYSTEMS



# FirePro. XTINGUISH™

FirePro® Xtinguish is an exciting and new “green” fire suppression product for total-flooding applications or any installation where a fire suppression system is needed to protect the contents of a space. FirePro® Xtinguish is non-toxic, with zero ozone depletion and global warming potential. It utilizes an aerosol-forming solid compound to extinguish fires by inhibiting the chemical chain reactions within the fire itself, breaking the chemical reaction of fire cleanly and efficiently. While being very powerful, the FirePro® Xtinguish system installation is uncomplicated and maintenance is minimal. FirePro® Xtinguish and the HCVR-3 and eLAN Releasing Fire Alarm Control Panels combine to produce a perfect extinguishing solution for offices, control rooms, wind turbines, warehouses, archives, banks, transformer/electrical rooms, and more.



- + No oxygen depletion
- + UL 2775 Listed for Class A, B, C fires
- + Environmentally friendly
- + EPA SNAP listed

- + Minimal maintenance
- + Non-corrosive and non-conductive
- + Safe to handle
- + Easy installation



# AEROSOL

An aerosol is defined as a 2-phased media consisting of solid particles suspended in a gas. FirePro® Xtinguish aerosol consists of Potassium-based particles, suspended in a gas carrier.



## EXTERNAL UNIT HOUSING

Forms the outer shell of the unit and also accommodates the activation (electrical & thermal) ports. The housing of cylindrical units is made of stainless steel for complete protection against corrosion.

Note: The box type units are produced in both stainless steel and red coated mild steel.

## NATURAL CERAMIC COOLANT

High quality alumina ceramic spheres act as both a cooling media (due to their high conductive nature) but also as a filter (any coarse aerosol particles shall be trapped within).

## ACTIVATION PORTS

Each FirePro® Xtinguish unit comes with two types of activation ports (thermal and electrical) thus providing the engineering option to utilize one or more activation device depending on application.

## ELECTRICAL ACTUATOR

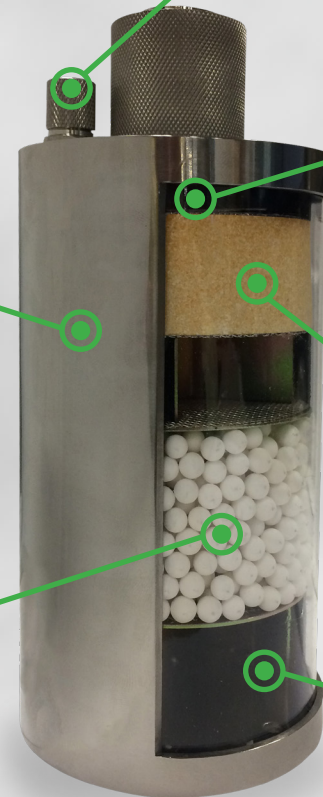
The electrical actuator is connected to a releasing control panel. When electrical energy is applied during alarm, the actuator initiates the transformation of the solid compound into a rapidly-expanding and highly effective fire suppression aerosol.

## FPC SOLID COMPOUND

The patented solid condensed aerosol-forming compound has a UL listed service life of 15 years.

## DISCHARGE PORT

Point from which aerosol exits the unit housing.





At the heart of the FirePro® Xtinguish system is the HCVR-3 Conventional Releasing Fire Alarm Control Panel. The HCVR-3 monitors and controls the entire system; detection, annunciation, and suppression. Combined with Hochiki's high-quality detectors and FirePro® Xtinguish, the HCVR-3 is a perfect solution for all of your fire suppression needs.



## HCVR-3

### CONVENTIONAL RELEASING FIRE ALARM CONTROL PANEL

#### STANDARD FEATURES

- > UL Listed, FM Approved and CSFM listed
- > Three conventional 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 a wide range of detection devices
- > Built-in manual release switch and external manual release circuit
- > Built-in abort circuit
- > 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 panel
- > Supports up to seven HCVR-SDU or HCVR-AB
- > Built-in relays for Fire, Trouble, Stage 1, Stage 2, Extract and Local Fire
- > Available in red or gray



## HCVR-SDU

### STATUS DISPLAY UNIT

#### STANDARD FEATURES

- > Remote status display for the HCVR-3 Releasing FACP
- > UL Listed, FM Approved and CSFM listed
- > Supervised four-wire connection
- > Displays countdown timer prior to agent release
- > Internal buzzer and trouble diagnosis indicators
- > Optional keyswitch with Manual-Only and Automatic & Manual modes
- > Available in red or gray





## HCVR-AS

### ABORT SWITCH

#### STANDARD FEATURES

- > UL Listed, FM Approved and CSFM listed
- > Used to abort the releasing operation
- > Includes a back box for surface mount
- > Available in red or gray



## HCVR-DS

### DISCONNECT SWITCH

#### STANDARD FEATURES

- > UL Listed, FM Approved and CSFM listed
- > Physical switch provides NFPA-compliant disconnect solution for releasing service
- > Includes a back box for surface mount
- > Available in red or gray



## HCVR-SQA

### SEQUENTIAL ACTIVATOR

#### STANDARD FEATURES

- > UL Listed, FM Approved and CSFM listed
- > Used to activate up to two FirePro Xtinguish aerosol generators
- > Includes a back box for surface mount
- > Fault LED is illuminated to indicate trouble conditions



## HPS-DAK-SR

### MANUAL PULL STATION FOR FIRE SUPPRESSION RELEASE

#### STANDARD FEATURES

- > UL Listed, FM Approved and CSFM listed
- > Physical switch provides NFPA-compliant disconnect solution for releasing service
- > Includes a back box for surface mount
- > Metal construction
- > Enclosed switch with glass rod (included)
- > Available in red or gray





## FPC-1

### FIRE DETECTION & EXTINGUISHANT CONTROLLER

#### STANDARD FEATURES

- > Self-contained detection and activation module
- > Can activate one or two Xtinguish aerosol generators
- > LEDs indicate controller status
- > Built-in fixed temperature / rate-of-rise heat detector
- > Input for manual activation switch or linear heat cable
- > Aerosol generator circuits are supervised
- > Powered by four "AA" alkaline batteries
- > Fast installation, no programming required
- > For ancillary use only – not UL listed



## FPC-4

### EXTINGUISH CONTROL MODULE

#### STANDARD FEATURES

- > Self-contained detection and activation module
- > Can activate one or two Xtinguish aerosol generators
- > Powered by one "AA" alkaline battery
- > Input for linear heat cable or manual activation switch
- > Fast installation, no programming required
- > For ancillary use only – not UL listed



## FPC-2

### FIRE PROTECTION CONTROLLER

#### STANDARD FEATURES

- > Detection and activation controller
- > Can activate up to four Xtinguish aerosol generators
- > One input for linear heat cable, smoke detectors, or combination of both
- > Buzzer activates during alarm or trouble conditions
- > Reset and Buzzer Silence buttons on controller faceplate
- > Two Form-C relays for Alarm and Trouble
- > Requires external 24VDC power supply
- > Easily interfaced to building fire alarm system
- > Fast installation, no programming required
- > For ancillary use only – not UL listed



## FPC-5

### THERMAL ACTIVATION MODULE

#### STANDARD FEATURES

- > Thermal activation solution for stand-alone generator applications
- > Two versions; one with built-in bimetallic heat sensor and another with linear heat cable input
- > Can be used on all generator models
- > Powered by one CR2 lithium battery
- > For ancillary use only – not UL listed





## ELAN RS-H

### ANALOG ADDRESSABLE FIRE ALARM RELEASING CONTROL PANEL

#### STANDARD FEATURES

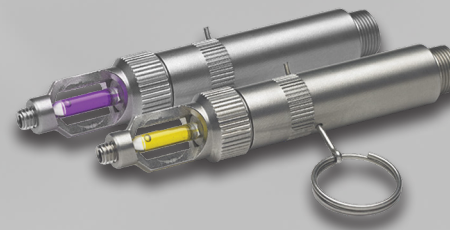
- > Analog addressable panel with single-hazard releasing
- > 1 or 2 SLC loops
- > 127 primary addresses per SLC
- > 500 zones
- > 2 notification appliance circuits
- > 3 programmable relays
- > Networkable, up to 64 panels
- > 500 network-wide cause and effect logic statements
- > Available in red or gray

## BTA

### BULB THERMAL ACTUATOR

#### STANDARD FEATURES

- > Thermal activation solution for stand-alone generator applications
- > 5 temperature ratings; 57°C, 68°C, 79°C, 93°C, 141°C, 182°C
- > The liquid in the bulb expands when temperature increases. When operational temperature is reached the bulb bursts, activating the generator.
- > Compatible with the FNX-100S, FNX-200S, FNX-500S, and all of the "T" and "TS" series of generators.
- > No external power required
- > For ancillary use only – not UL listed



FirePro® Xtinguish is UL Listed as a pre-engineered system. Applications are easy to design and install. No piping, pressurized tanks or cylinders, or difficult flow calculations are required. Simply choose the correct type and number of aerosol generators using simple design parameters.

## AEROSOL GENERATORS

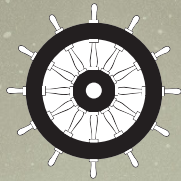


- 20 GRAMS
- 40 GRAMS
- 80 GRAMS
- 100 GRAMS
- 200 GRAMS
- 500 GRAMS
- 1 200 GRAMS
- 2000 GRAMS
- 3000 GRAMS
- 4200 GRAMS
- 5700 GRAMS

**Comparison of the required quantity of FirePro® Xtinguish vs. traditional gaseous suppression agents. Greater economy of space will open up greater numbers of applications.**



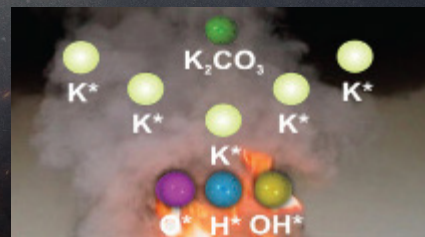
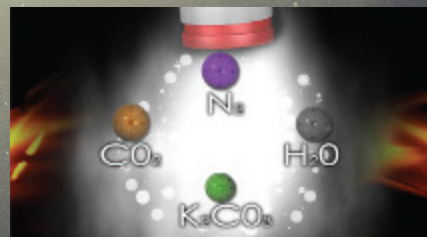
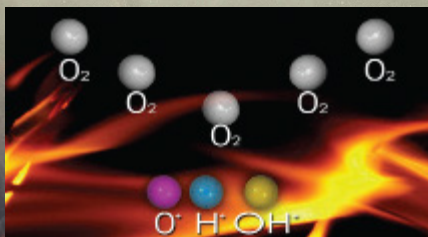




GENERATOR MODELS	FNX-20	FNX-40	FNX-80	FNX-100	FNX-200	FNX-500
TOTAL VOLUME COVERAGE (CUBIC FT/M)	6.35FT 0.18M	12.71FT 0.36M	25.77FT 0.73M	32.13FT 0.91M	64.62FT 1.83M	161.38FT 4.57M
WEIGHT (LBS/G)	0.68 LBS (308g)	1.34 LBS (607g)	1.92 LBS (870g)	3.02 LBS (1370g)	4.05 LBS (1837g)	7.36 LBS (3338g)
DIMENSION (HxD)	6.5"H x 1.2"D (165MM x 32MM)	5.5"H x 2.0"D (140MM x 51MM)	7.3"H x 2.0"D (185MM x 51MM)	6.1"H x 3.3"D (155MM x 84MM)	7.3"H x 3.3"D (185MM x 84MM)	10.2"H x 3.3"D (260MM x 84MM)

GENERATOR MODELS	FNX-1200	FNX-2000	FNX-3000	FNX-4200	FNX-5700
TOTAL VOLUME COVERAGE (CUBIC FT/M)	387.75FT 10.98M	646.61FT 18.31M	864.14FT 24.47M	1358.20FT 38.46M	1843.07FT 52.19M
WEIGHT (LBS/G)	24.03 LBS (10900g)	34.17 LBS (15500g)	35.93 LBS (16297g)	52.03 LBS (23600g)	58.20 LBS (26400g)
DIMENSION (HxWxL)	6.6"H x 8.5"W x 11.8"L (167MM x 216MM) x 300MM)	7.3"H x 11.8"W x 11.8"L (185MM x 300MM x 300MM)	7.3"H x 11.8"W x 11.8"L (185MM x 300MM x 300MM)	11.8"H x 11.8"W x 11.8"L (300MM x 300MM x 300MM)	11.8"H x 11.8"W x 11.8"L (300MM x 300MM x 300MM)

Conventional extinguishing agents employ oxygen depletion, cooling or both to extinguish a fire. FirePro® Xtinguish inhibits the chain chemical reactions present in fire. By removing the flame free radicals, it extinguishes fire without depleting oxygen.







THE WORLD'S FINEST FIRE DETECTION SYSTEMS SINCE 1918

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**SUPPRESSION**

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