

# FIREKIM CERTIFICATE

## Certificates



Innovative Product Certificate   Innovative Product Appointment Certificate   EPC Performance Certificate   Venture Firm Certificate

## KFI Certificate



## Certified for KC and CE



## IF Design Certificate



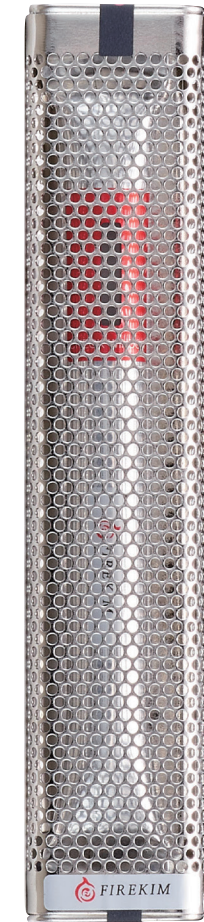
## GD Certificate



## FIREKIM

Suite 208 Mirae Younghap T-Factory Office Building  
Small and Medium Sized Venture Firm Administration in Chungbuk  
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NEW STANDARD OF FIRE  
EXTINGUISHING SYSTEM  
IN THE WORLD!

# FIREKIM



# FIREKIM COMPANY

## ABOUT FIREKIM

## We make products that save human lives

FIREKIM makes the 'products for saving human lives' with creative and advanced technologies. We keep our future life and culture by means of innovative products and contribute to healthy daily life with creative idea.

<b>Company</b>	FIREKIM	<b>Representative</b>	Kim Byung Yeol
<b>Establishment Date</b>	December 09, 2016	<b>Homepage</b>	www.firekim.co.kr
<b>Factory</b>	Ohchang-eup, Chungju City Chungcheongbuk-do, Korea	<b>Headquarters</b>	Suite 208, 2nd floor, 48 Jungshim Sangeup 2-ro, Ohchang-eup, Chungwon-gu Chungju City, Chungcheongbuk-do, Korea
<b>Paid-in capital</b>	100 million Won	<b>Employee</b>	10

## GLOBAL NETWORK

<b>30</b> Public Administration and Public Organization	<b>7</b> MRO and Dealer Shop	<b>73</b> Private Enterprise
Korea Electric Power Corporation, Chungju City Hall, Korea SMEs and Startups Agency, Korea Gas Safety Corporation, Korea Internet & Security Agency, Korea Western Power Co., Ltd and etc.	eNtoB, E-Land Service, Happynarae, Serveone, Korea b2b, iMarketKorea, Hyundai Motors VAATZ	Kokam, LG Houses, LG Chem, SKT, Nexen Corporation, SK Hynics, SK Construction, Hanju, Hyundai Heavy Industries, Lotteria, Lotte Food, E-Mart, Coca Cola, POSCO, S&I, Samsung SDI, Panduit and etc.



## FIREKIM CLIENT



## SMART CAPSULE

Temperature sensing function built-in non-powered product. It emits the chemicals through reacting of capsule inside the stick to the temperature reached to 100-110°C.

## NOVEC 1230 AGENT

Currently existing highest environment friendly extinguishing chemical sustainable not impacted with the global greenhouse gas reduction policies.

## INNOVATIVE DESIGN

Innovative design awarded the prize of design in 2019 IF Design Awards and stainless steel exterior for function and durability.

Patent : 10-1857775  
Design : 30-0907732



## STICK

Downsized Extinguishing Stick (Protective volume 0.05m<sup>3</sup>)

- Applicable for small space
- Put out the fire in the beginning by projecting the extinguishing liquid automatically when reached to 105±5°C and it saves valuable human lives and properties
- Optimized for fire suppression and prevent the re-firing by projecting more than 90% of extinguishing chemical within 10 seconds

Model	Size (WxHxL)	Chemical volume	NFPA standard protective volume	Maximum height for installation	Weight	Shelf-life	Voltage	Firing class for using
FSC130	25x15x130	16.0g	0.018m <sup>3</sup>	0.4m	43.5g	7 Years	Non-powered	Class A Class B Class C
FSC200	25x15x200	27.4g	0.031m <sup>3</sup>	0.7m	68.7g			
FSC250	25x15x250	35.5g	0.041m <sup>3</sup>	0.7m	84.5g			
FSC300	25x15x300	43.5g	0.050m <sup>3</sup>	0.7m	100.0g			

※ Shelf-life: The shelf-life of the gas type fire extinguisher is for 7 years according to the operation regulations of Fire Extinguishing Industry Cooperative.

## STICK SENSOR+

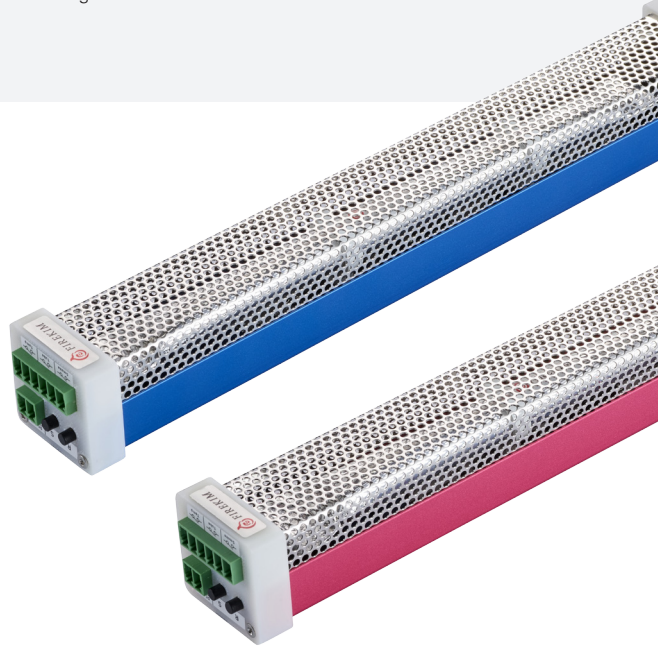
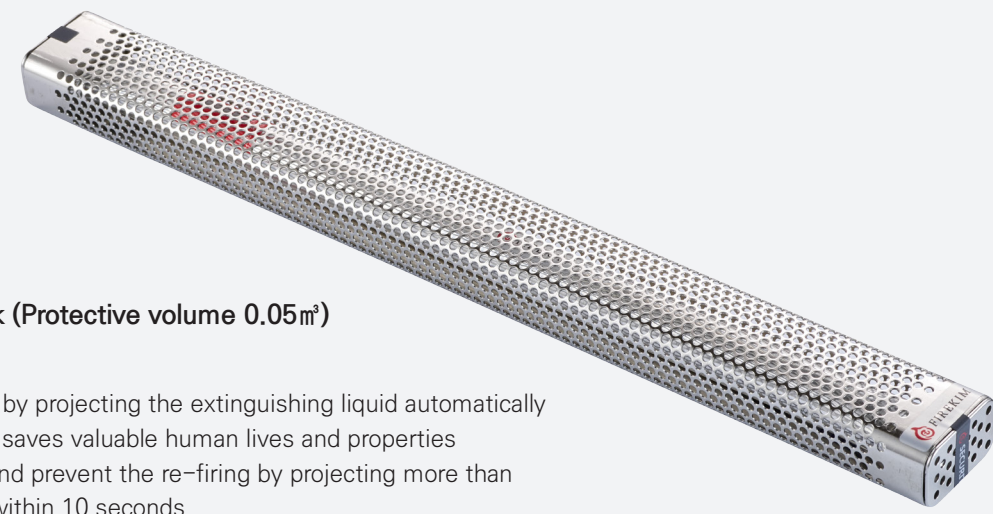
Downsized Extinguishing Stick (Protective volume 0.041 m<sup>3</sup>)

- Applicable for small space
- Put out the fire in the beginning by projecting the extinguishing liquid automatically when reached to 105±5°C and it saves valuable human lives and properties
- Optimized for fire suppression and prevent the re-firing by projecting more than 90% of extinguishing chemical within 10 seconds

Model	Size (WxHxL)	Weight	NFPA standard protective volume	Voltage/ Electric current	Control Output
FSS220B	28x27x220	128g	0.027m <sup>3</sup>	DC 24V/ 85mA	Extinguishing capsule state output Setting fume concentration
FSS300B	28x27x300	168g	0.041 m <sup>3</sup>		Temperature output Temperature change output

**B Type** Temperature, fume sensor (Output the checked data when the temperature and fume concentration reached to the set data)

**A Type** B Type + Temperature monitoring function (Option)



## RED BLOCK

Outsized Extinguishing Stick (Protective volume 1.215m<sup>3</sup>)

- Applicable for medium and large space
- Put out the fire in the beginning by projecting the extinguishing liquid automatically when reached to 105±5°C and it saves valuable human lives and properties
- Optimized for fire suppression and prevent the re-firing by projecting more than 90% of extinguishing chemical within 10 seconds

Model	Size (WxHxL)	Weight	NFPA standard protective volume	Maximum height for installation	Voltage/ Electric current	Shelf-life	Firing class for using
FRB250N	103x43x250	0.7kg	0.09m <sup>3</sup>	0.8m	Non-powered	S type 5years N type 7years	Class A Class B Class C
FRB250S	103x43x250	0.7kg	0.09m <sup>3</sup>	0.8m	DC 24V / 86mA		
FRB350N	103x43x350	0.9kg	0.36m <sup>3</sup>	1.0m	Non-powered		
FRB350S	103x43x350	0.9kg	0.36m <sup>3</sup>	1.0m	DC 24V / 86mA		
FRB500N	103x43x500	1.8kg	1.215m <sup>3</sup>	1.5m	Non-powered		
FRB500S	103x43x500	1.8kg	1.215m <sup>3</sup>	1.5m	DC 24V / 86mA		

**S Type** Temperature and fume sensor (Output the checked data when the temperature and fume concentration reached to set data)

**N Type** Regular type (Non-powered)

## BIG STICK

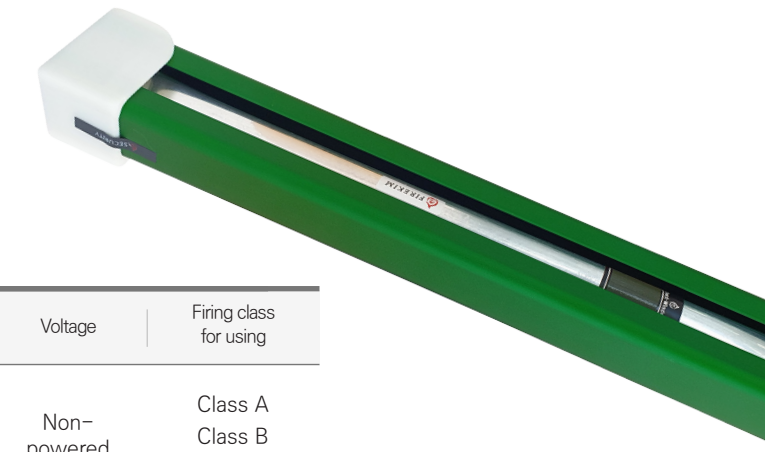
New product for protective volume 0.15m<sup>3</sup> and 0.3m<sup>3</sup>

Model	Size (WxHxL)	NFPA standard protective volume	Shelf-life	Voltage	Firing class for using
FBS300	45x30x300	0.15m <sup>3</sup>	5 Years	Non-powered	Class A Class B Class C
FBS400	45x30x400	0.3m <sup>3</sup>			

## SPIDER

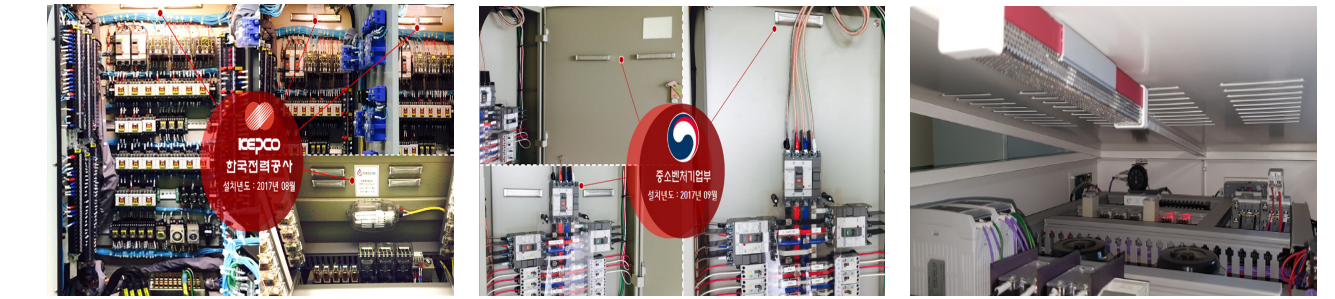
Available for developing customized products adjusted to the user's battery module size in variety

- Available for ESS, xEV, small and middle size mobility, ship and defense industry



## PRODUCT APPLICATION

Cases of installing at customer companies



Korea Electric Power Corp

Korea SMEs and Startups Agency

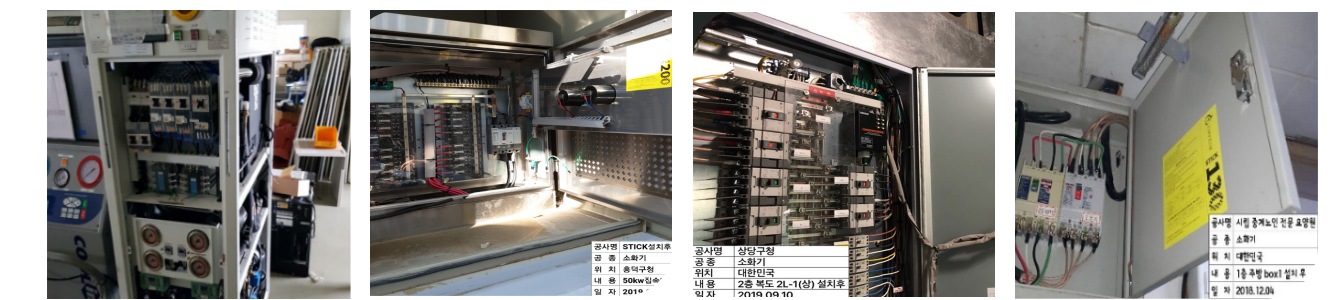
LG Houses (Chamber unit)



Jongno Rice cake House at Sachang Market in Chungju City

Cheonan Sidedishes at Sachang Market in Chungju City

Central Market in Jecheon City



Samsung Semi-conductor (Chiller unit)

Hongduk District Office

Sangdang District Office

Junggae Elderly Hospital

Installed at Mokcheon pressuring plant of K-Water in Cheonan City



Under way for test bed at Mokcheon pressuring plant in Cheonan City

Installed (Inverter PNL No 1 and 2)

Installed electric panel inside LG Chem