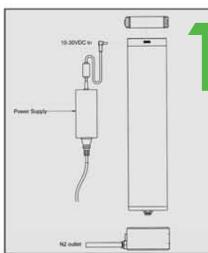
Modular fire suppression system for Server racks and E-Cabinets

Plug and Play easy to install fire suppression system. Protecting 1.2m³ up to 6m³ with a pressureless and maintenance free cool gas generator. Producing a clean agent N₂ fire extinguishing gas at ambient tempearture without any residue. For installation inside or outside server rack or cabinet.



Cool Gas Generator for protecting 1.2 up to 6m³ including power supply, back-up battery, fire control system including

2 dry contacts, LED indicator and integrated mounting bracket to connect multiple generators (max. 5 generators total)

Volume Nagas Length Diameter casing Electric current Operating voltage 450mm 104mm

12V

Pressure during ignition 10-20 bar Mass

Volume total 0.2 - 1.2A Lifetime Temperature range

15 years 0 to 50°C

0.15kg

0.4L

5kg

4.3L

Multi criteria detection

Smoke/fire detector based on an Optical sensor, CO sensor and Temperature sensor and acoustic alarm.

Applicable for installaion of the Cool Gas Generator(s) inside the protected area.

Length Diameter Electric current

50mm 104mm 0.1A

12V

Mass Volume total Lifetime

5 years 0 to 50°C Temperature range



Aspiration detection

Smoke/fire detector based on a Laser sensor plus aspriation system and acoustic alarm.

Applicable for installation of the Cool Gas Generator(s) outside the protected area.



Diameter Electric current

Operating voltage

104mm 0.4A 12V

Mass Volume total Temperature range

0.5kg 0.6L 5 years 0 to 50°C

EXXFIRE BV - European Space Innovation Centre Kapteynstraat 1, 2201 BB NOORDWIJK, The Netherlands +31 654 795 958, info@exxfire.com

www.exxfire.com





securing hardware green



Secure your hardware green

High value equipment such as server racks, servers and electrical equipment need protection against fire and overheating. EXXFIRETM is the first and only system that protects damage free, is 30% smaller than high pressure systems, is plug-and-play easy to install, reliable, clean, pressureless and therefore low on maintenance costs.

When the multcriteria or laser sensors detect overheating or fire, clean Nitrogen gas – at ambient temperature – is released to change the air composition, preventing the fire to start or to continue without damaging the high value equipment.

The unique feature of the EXXFIRETM system is the patented cool gas generator. A cool gas generator is a small rocket engine with solid propellant inside a casing. The solid propellant is stored pressureless inside the generator. An igniter starts the decomposition of the propellant into the required Nitrogen gas and the residue remains inside the gas generator. There is no danger of damiging the equipment and there are no cleaning costs afterwards. Due to the patented technology, no filtering or cooling is needed, thus giving a high storage efficiency, resulting in a 30% smaller and lighter system.

The pure Nitrogen gas has no Ozone Depletion Potential (ODP) or Global Warming Potential (GWP) and no dangerous side effects to humans, a real advantage over chemical gasses.



EXXFIRETM750 FIRE SUPPRESSION SYSTEM with Aspiration detection Module for installation outside cabinet

EXXFIRE™COOL GAS GENERATOR

EXXFIRETM750 FIRE SUPPRESSION SYSTEM with Multicriteria detection Module for installation inside cabinet





When the system is deployed the used generator(s) need to be recycled. EXXFIRETM will take care of the environmental friendly recycling. The used generators can easily be replaced with new one(s) to protect the high value equipment again for a very long time.











Modular system

Due to the modular set up of the system it is easy to determine which modules are needed to protect high value equipment. The first question is where to install the system. If the system can be installed inside the protected area, the Mutlicriteria detection module based on CO, Optical and Temperature sensor will provide enough security to detect fire or smoke. When there is not enough space inside the protected area the system can also be installed outside using the Aspiration detection module based on a Laser detection sensor and aspiration system. The system is completed with EXXFIRETM Cool gas generator module(s) depending on the volume that needs protection, including control logic, power supply, back-up battery, led indicator and 2 open dry circuit connectors.



Plug and Play

The unique design and characteristics of the EXXFIRETM system which makes it a Plug and Play easy to install fire suppression system with a very long lifetime. The 'twist-and-click' connections of the modules enables easy installation and replacement of indivual modules in no-time. The integrated mounting brackets provide the electrical power from the power supply to the individual EXXFIRETM cool gas generator(s) plus a leak free gas release.



Low maintenance costs

The EXXFIRE™ cool gas generator provides a maintenance free storage of Nitrogen gas for over 15 years. This robust technology originated from the space program of the European Space Agency (ESA). In comparison to other (high pressure) fire suppression systems, EXXFIRE™ only needs maintenance on the electrical and detection part of the system giving it a considerable cost advantage over the total lifetime of the system.

securing hardware green