



# **AKRONEX 5112**

Clean Agent Fire Suppression Systems

**Worldwide Solutions** 













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#### AKRONEX 5112 Clean Agent Fire Suppression Systems

FK-5-1-12 Fire Protection Fluid used in AKRONEX 5112 Clean Gas Fire Extinguishing System is a revolutionary new technology.
The Akronex 5112 system can be pressurized at 25 and 42 bars.
With its zero ozone depletion potential, extremely low global warming potential and short atmospheric life, FK-5-1-12 fluid is one of the chemical gases that replace Halon.

The cylinder valve assemblies are equipped with a pressure differential high flow rate valve to meet the 10-second fast discharge time specified in NFPA 2001. The valves are operated by electric solenoids and pneumatic actuators or by manual actuators which reduce the pressure on the piston.

This allows the piston to open the valve and allow the extinguishing agent to come out. All products are designed and certified according to national and international standards.

# The benefits of Akronex 5112

- Faster than water extinguishing systems
- Safe for human life and animal life, environmental, extended life suppressant,
- · No residue, No waste,
- · Prevents damage caused by smoke, ash, and wetness,
- Does not damage protected equipment and objects.
- Not conductive, does not damage the operating function of electronic devices.

## **Activity Areas**

- Data Center, Telecommunication, Information Technologies
- · Shopping Centers, Hotels and Restaurants
- Energy Sector and Auxiliary Industries
- · Museums, Archives, Libraries and Schools
- · Health Industry
- · Manufacturing Sector
- · Warehouses and Logistic Centers
- · Oil, Gas and Hydrocarbon Industry
- Local and Central Government, All Public Buildings, Business Centers
- Wind Power Plants, Hydro Power Plants, Solar Power Plants. Geothermal Plants





### **AKRONEX 5112**

#### Clean Agent Fire Suppression Systems



When you specify a system for fire protection, your choices can determine whether a person, a valuable asset, or an entire business can survive from a fire.

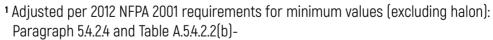
The FK-5-1-12 Fire Suppression Agent indicates that you are making a wise choice. Its unique chemical properties help you protect everything you want:

- People: It creates an environment where people can be more secure.
- Operations: No damage to electronic equipment or stored data.
- **Valuable assets**: It provides a high level of protection for libraries, paper archives, historical documents, valuable artworks and antiques.
- Planet: Global warming potential is very low and has no effect on the ozone layer.

#### More safety <sup>1</sup> margin and lower environmental impact

A large margin means a higher level of security for people. buildings, equipment, data and the world we live in.

Agent	FK-5-1-12	HFC-227ea	HFC-125	Halon 1301
Use Concentration	4.5% min.	6.7% min.	8.7% min.	5%
NOAEL <sup>2</sup>	10% <sup>3</sup>	9%	7.5%	5%
Safety Margin <sup>4</sup>	67-122%	3-34%	Nil	Nil
Global Warming Potential <sup>5</sup>	<1	3350	3170	6290
Ozone Depletion Potential <sup>6</sup>	0.0	0.0	0.0	12.0



- <sup>2</sup> NOAEL for cardiac sensitization
- <sup>3</sup> NOAEL for acute toxicity, including cardiac sensitization
- 4 Safety Margin = (NOAEL Use Concentration) / Use Concentration (minimum values received)
- <sup>5</sup> Intergovernmental Panel on Climate Change (IPCC) 2013 Method, 100-year ITH (CO2=1)
- <sup>6</sup> World Meteorological Organization (WMO) 1998, Model-Derived Method





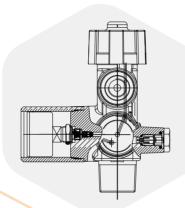
### **Akronex 5112 Valves**

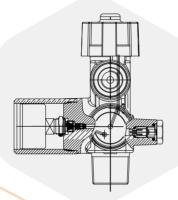


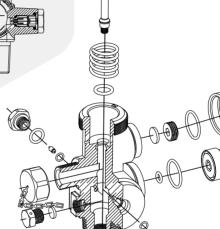


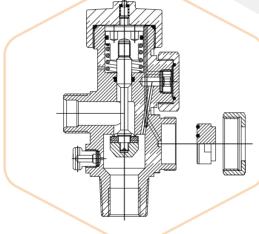


Akronex20











Gas

Name FK-5-1-12

### **AKRONEX 5112**

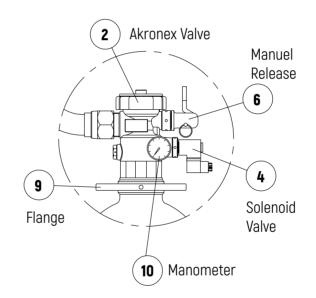
Modular Systems

### Other • Akronex Cylinder **Components**

- Gas
- Accessories
- Nozzles
- Diaphragm

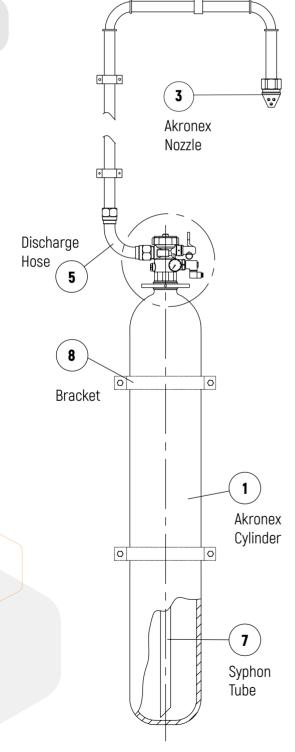
### List Of **Materials**

Protection cap for cylinders and label is included to the system.



### **Modular System** HIGH PRESSURE (42 Bar)

*RECOMANDED FILLING
138,00 kg
115,00 kg
88,00 kg
77,00 kg
48,00 kg
30,80 kg
15,40 kg









**Battery** 



Sounder / Flasher

### **ELECTRONIC**SYSTEM PARTS

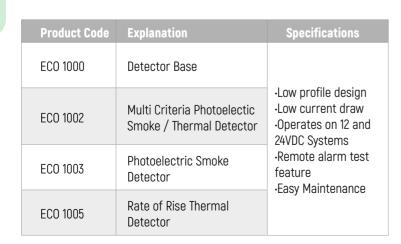
# **EP203 Automatic Extinguisher Panel**



Approvals/certifications	Certified to EN12094-1 and EN54-2/4 by the LPCB (176c) / (0832-CPD-0794).		
Mains supply	230V 50/60Hz.		
Mains rated current	810mA max.		
Internal power supply	19V-28.5V (27V nominal). Ripple 7V maximum (battery fault)		
No. of detector zone circuits	3 @ 19-28Vdc (Max. length per circuit is 250m)		
Product dimensions (mm)	439 W x 276 H x 70 D mm (back box); 467 W x 293 H x 29 D mm (lid).		
Weight	4.2kg (without batteries).		
Operating conditions/ temperature	-5°C to +40°C. Max relative humidity: 95%.		
IP Rating	IP30.		

# **Enclosure Integrity Test**

NFPA 2001 requires an enclosure integrity test to check for air leaks and holding times as part of the system acceptance procedure. This test can be carried out using a calibrated blower door fan test unit by certified tester.







Smoke, Thermal and Multi Detectors





# Worldwide Solutions In Automatic Fire Suppression Systems

- Albania
- Armenia
- Azerbaijan
- Bangladesh
- Cyprus
- Etihopia
- France
- Georgia
- Germany
- India
- Iraq
- Italy
- Kuwait
- Libya
- Maldives
- Moldovia • Oman
- Pakistan
- Qatar Russia
- Saudi Arabia
- SenegalSerbia
- Spain
- Tanzania
- Tunisia
- Turkmenistan



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