

# EVENOS

Fire Protection Systems



## **EVENEXT-5112**

# **Fire Suppression Systems**



# ABOUT EVENOS FIRE PROTECTION SYSTEMS INC.

Evenos Fire Protection Systems Inc. operates in the fire safety sector, which has become essential in the age of technology. Specializing in "Automatic Fire Extinguishing Systems," our company places great emphasis on research and development, a key requirement of the information age. We closely monitor global technological advancements and are committed to providing services using the latest internationally certified and approved products. Evenos Fire Protection Systems Inc., which exports to many regions worldwide, continues to expand its production and communication through this extensive export network.



Evenos Fire Protection System which adopts the principle of sustainability as its main strategy, is proud of signing large-scale contracts in Turkey and abroad in a short time, while at the same time taking firm steps towards maximizing the goals of its employees, customers and business partners.

Evenos Fire Protection System will continue to work with all its strength in line with its goal of healthy and sustainable growth by increasing its market share in the constantly developing and growing world economy.

## OUR VISION

Through comprehensive brand communication, we aim to enhance our presence internationally, positioning ourselves as one of Turkey's leading manufacturers of Automatic Fire Extinguishing Systems and competing with world-renowned brands.

## OUR MISSION

Evenos Fire Protection Systems Inc. has adopted the principle of producing environmentally friendly products, constantly focusing on innovation by investing in research and development to ensure continuous production in line with national and international standards.



# EVENEXT-5112 Fire Suppression Systems

EVENEXT-5112 offers an efficient and reliable fire suppression solution, particularly for areas where water could cause more harm than fire. Its key advantages include faster activation, human and environmentally safe suppressants, and no residual damage.

## Certificate of Compliance

Certificate Number:  
EX29120

Report Reference:  
EX29120-20230929

Issue Date:  
2024-MAY-21

Issued to:  
**Evenos Yangin Guvenlik Sistemleri A.S.**  
Premium Dragos Plaza Cevizli Mahallesi  
Bagdat Caddesi, No 520 - 526 / 1 Maltepe  
Istanbul, Istanbul Turkey |

This certificate confirms that representative samples of:  
**CLEAN-AGENT EXTINGUISHING SYSTEM UNITS**  
See next page for models.

Has been evaluated by UL LLC in accordance with Standard(s) for Safety:  
See next page for Standards for Safety.

Additional Information:  
See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

  
David Piecuch  
UL Mark Certification Program Owner



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## Activity Areas

**EVENEXT-5112 systems are ideal for use in the following sectors:**

- Data Centers, Telecommunication, Information Technologies
- Energy Sector and Related Industries
- Museums, Libraries, Schools, University Campuses
- Healthcare Industry
- Public Institutions
- Manufacturing Sector, Logistics Centers
- Oil, Gas, and Hydrocarbon Industry
- Wind, Hydro, Solar, and Geothermal Power Plants

**EVENEXT-5112 systems can be manufactured at both 42 bar and 50 bar working pressures.**

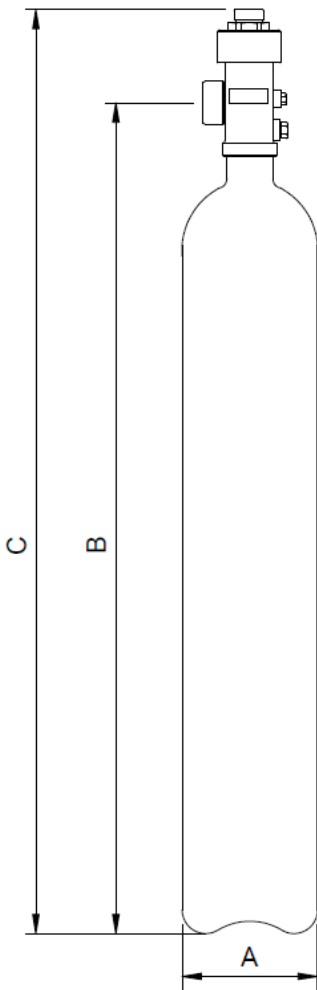
## Fast Suppression

EVENEXT-5112 systems quickly detect fire in its early stages. Utilizing a cross-zone principle, the system identifies two zones and releases FK-5-1-12 gas into the protected area in under 10 seconds. For effective suppression, the gas remains in the space for at least 10 minutes, ensuring rapid and comprehensive fire control.



# EVENEXT-5112 Systems Components

## • Cylinders



EVENEXT-5112 Cylinder (Seamless)

| Specifications         |                                  |
|------------------------|----------------------------------|
| Materials              | Chromium Molybdenum Alloy Steel  |
| Filling                | 0.5 kg/L up to maximum of 1 kg/L |
| Filling Pressure       | 42 bar and 50 bar @ 21°C         |
| Test Pressure          | 300 bar                          |
| Standard of Compliance | ISO 9809-1                       |
| Colour                 | Red                              |

\*Option for liquid level indicator is available, subject to cylinder sizes

EVENEXT-5112 System Cylinders are "Seamless" cylinders and manufactured in accordance with TPED.

System cylinders consist of 6 different volumes, which are 30 liters, 50 liters, 80 liters, 100 liters, 140 liters and 180 liters capacity and can meet every need.



| Part Number   | Capacity (L) | Valve Outlet Size | A (mm) | B (mm) | C (mm) | Burst Disc's Burst Pressure |
|---------------|--------------|-------------------|--------|--------|--------|-----------------------------|
| EVN-SC-030-EN | 30           | 1-1/2"            | 232    | 986    | 1099   | 90Bar                       |
| EVN-SC-050-EN | 50           | 1-1/2"            | 232    | 1506   | 1619   | 90Bar                       |
| EVN-SC-080-EN | 80           | 1-1/2"            | 406    | 881    | 994    | 90Bar                       |
| EVN-SC-100-EN | 100          | 1-1/2"            | 406    | 1046   | 1159   | 90Bar                       |
| EVN-SC-140-EN | 140          | 2"                | 406    | 1385   | 1515   | 90Bar                       |
| EVN-SC-180-EN | 180          | 2"                | 406    | 1715   | 1845   | 90Bar                       |

\*Cylinder dimensions shown on all tables above have a tolerance of  $\pm 15\text{mm}$ .

\*Option for liquid level indicator is available, subject to cylinder sizes

# EVENEXT-5112 Systems Components

## • Valves



| Specification             | EVN-DV-038-UL   | EVN-DV-050-UL   |
|---------------------------|-----------------|-----------------|
| Valve Size                | 1-1/2"          | 2"              |
| Valve Body Material       | Brass           | Brass           |
| Temperature Range         | -10°C to 60°C   | -10°C to 60°C   |
| Actuator Connection       | 1-1/4" X 18UNEF | 1-1/4" X 18UNEF |
| Pilot Hose Connection     | 1/8" NPT        | 1/8" NPT        |
| Pressure Gauge Connection | 1/8" NPT        | 1/8" NPT        |
| Valve Outlet Connection   | 1-7/8" - 12 UN  | 2-1/2" - 12 UN  |
| Equivalent Length (m)     | 12.5            | 13              |

Note: All equivalent lengths are given in Schedule 40, black pipe.

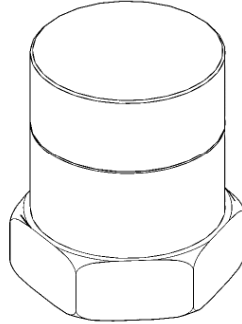
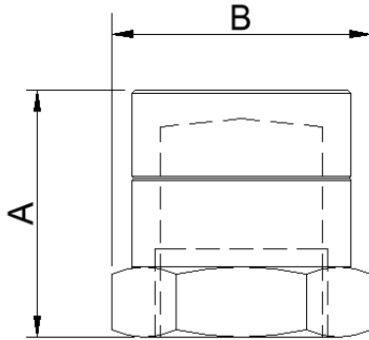
## • Discharge Hoses



| Part Number             | EVN-DH-012-38MM                                                                | EVN-DH-012-50MM                                                                |
|-------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Material                | Synthetic Rubber Hose with high tensile steel wire double braids reinforcement | Synthetic Rubber Hose with high tensile steel wire double braids reinforcement |
| Max. Working Pressure   | 90 bar                                                                         | 80 bar                                                                         |
| Temperature Range       | -10°C to 60°C                                                                  | -10°C to 60°C                                                                  |
| Length from Elbow Inlet | 465 mm                                                                         | 520 mm                                                                         |
| Elbow Inlet             | 1-7/8" - 12 UNJ                                                                | 2-1/2" - 12 UNJ                                                                |
| Outlet                  | 2" BSP                                                                         | 2-1/2" BSP                                                                     |
| Equivalent Length (m)   | 4.0                                                                            | 4.4                                                                            |

# EVENEXT-5112 Systems Components

## • Nozzles



| Part No.         | Material | Sizes (inches) | A (mm) | B (mm) | Allowable Orifice Size (mm) |
|------------------|----------|----------------|--------|--------|-----------------------------|
| EVN-FK-NZ-015-UL | Brass    | 1/2"           | 45     | 31.75  | 1.6 - 3.5                   |
| EVN-FK-NZ-020-UL | Brass    | 3/4"           | 45     | 38.10  | 2.4 - 4.6                   |
| EVN-FK-NZ-025-UL | Brass    | 1"             | 56     | 44.45  | 3.0 - 5.9                   |
| EVN-FK-NZ-032-UL | Brass    | 1-1/4"         | 65     | 50.80  | 4.0 - 7.8                   |
| EVN-FK-NZ-040-UL | Brass    | 1-1/2"         | 70     | 63.50  | 4.6 - 9.1                   |
| EVN-FK-NZ-050-UL | Brass    | 2"             | 88     | 76.20  | 5.9 - 11.7                  |

\* Allowable orifice size subject to design calculation

## • Other System Components



### Check Valve



### Pilot Line Hose



### Pressure Gauge 42 Bar / 50 Bar



### Pressure Gauge 42 Bar / 50 Bar with low Pressure Switch



### Manual Actuator Button



### Latching Solenoid Actuator



### Pneumatic Actuator



### Liquid Level Indicator



### Valve Outlet Adaptor



## Electronic Systems Parts

### • EP203 Automatic Extinguisher Panel



| Specification                    | Value                                                                 |
|----------------------------------|-----------------------------------------------------------------------|
| Approvals/certifications         | 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 max (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);<br>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.                                                                 |

| Product Code | Explanation                                           | Specifications                                                                                                                                                                                               |
|--------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ECO 1000     | Detector Base                                         | <ul style="list-style-type: none"> <li>•Low profile design</li> <li>•Low current draw</li> <li>•Operates on 12 &amp; 24VDC Systems</li> <li>•Remote alarm test feature</li> <li>•Easy Maintenance</li> </ul> |
| ECO 1002     | Multi Criteria Photoelectric Smoke / Thermal Detector |                                                                                                                                                                                                              |
| ECO 1003     | Photoelectric Smoke Detector                          |                                                                                                                                                                                                              |
| ECO 1005     | Rate of Rise Thermal Detector                         |                                                                                                                                                                                                              |

### • Smoke Thermal and Multi Detectors



### • Enclosure Integrity Test

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