EXT 11 / EXT 12 / EXT 22

EXTINGUISHING UNITS

IEP TECHNOLOGIES
HOERBIGER Safety Solutions

PRODUCT INFORMATION SHEET

Description

Atexon® by IEP Technologies extinguishing units help prevent dust explosions and fires by automatically extinguishing detected sparks. The EXT11, EXT12, and EXT22 extinguishing units have been designed for pneumatic transport duct systems moving material at very high speeds. Upon detection, a small amount of water is sprayed into the process, extinguishing the hazard without damaging the protected processing equipment. Extinguishing automatically stops a few seconds after the last spark has been detected.

Each extinguishing unit has a temperature sensor, a flow switch, and a position-monitored ball valve. The EXT11-EX has one solenoid valve and one nozzle, the EXT12-EX has one solenoid valve and two nozzles, and the EXT22-EX has two solenoid valves and two nozzles. When any of the extinguishing units are connected to an Atexon® SR3-EX Signal Router by IEP Technologies, the operation of the Extinguishing Unit is continuously monitored. All electrical connections are line-supervised .

Extinguishing units can also be mounted in cold outdoor areas by means of an Atexon heat-tracing system* by IEP Technologies. The extinguishing unit features real-time temperature monitoring that detects inadequate insulation, power outages, and loss of power.

The heat tracing functionality is controlled by the pressure booster controller, which monitors outdoor temperatures using two separate temperature sensors. The supply voltage of the heat tracing is monitored, and all power supply failures trigger an output alarm.

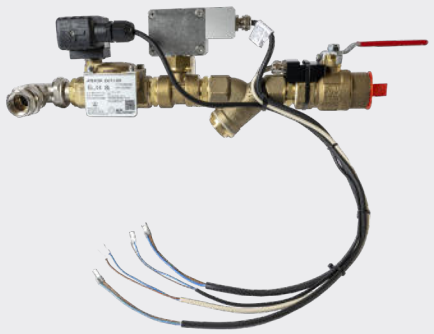
An optional custom insulation jacket is available from IEP to protect the extinguishing unit from the effects of adverse weather conditions.

**NOTE: Outdoor installations not available in all areas. Contact your IEP sales representative for more information.*

Features

- Fast acting solenoid valve
- Integrated strainer
- Position monitored ball valve
- Flow sensor
- Temperature Sensor
- Self cleaning spring loaded nozzles
- High flow chute nozzles
- Nozzle options:
  - Stainless steel/brass
  - Three different K factors
  - Self cleaning for ducts
  - High flow for chutes
- FM, IECEx and ATEX approved

Extinguishing Units



EXT11-EX Extinguishing Unit



EXT12-EX Extinguishing Unit



EXT22-EX Extinguishing Unit

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Application

The IEP Technologies EXT11, EXT12 and EXT22 extinguishing units are designed to extinguish sparks or burning material in conveyed process lines. Typical applications include protection of dust collectors, cyclones, conveyor systems and bucket elevators.

Specifications

Parameter	Value
Type	EXT11-EX / EXT12-EX / EXT22-EX
Number of nozzles	1 / 2 / 2
Extinguishant medium	Water (pH 6.5 to 9.5)
Operating pressure bar (psi)	3 to 10 (45.5 to 145.0)
Operating Temp °C (°F)	+5 to +50 (+41 to +122)
Smallest clearance after strainer mm (in)	0.30 (0.01)
Inlet (EN 10242)	1", female, BSPP* ** BSPP to NPT adapters are available.*
Ball valve positioning monitoring	Yes
Temperature monitoring	Yes
Flow monitoring	Yes
Y-Strainer	Yes
Use in dust explosive atmosphere zone	Environment: 22 or Non-Hazardous Area Protected Process: 20, 21, 22 or Non-Hazardous Area
Enclosure protection class	IP65
Relative humidity (% max.)	93
HazLoc rating	Ex II 3D Ex tc IIIB T135 °C Dc
Installation (nozzle mounting adapters)	Screw-on and weld-on
Options	Insulation jacket



Self cleaning spring loaded nozzle



High flow nozzle



Insulation jacket of extinguishing unit

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