

# X-PAC® IV

## GRAIN ELEVATOR PROTECTION



### PRODUCT INFORMATION SHEET

#### Description

The X-PAC® IV system consists of EX200 control unit and three types of devices mounted on the bucket elevator. These are the Extinguisher Unit, the Duct Isolation Unit, and the Shut-down Detector. Each device has a steel frame for mounting onto the bucket elevator. The Duct Isolation Unit is equipped with a flexible hose for mounting onto a dust extraction line. Typically, separate protection zones are provided for the elevator head and elevator boot. Upon detection of a deflagration, the extinguishers within that zone discharge DuPont FE-25™ suppressant into the process. Simultaneously the EX200 control unit initiates shutdown of the process and activates an alarm.

#### Features

- Designed specifically for grain bucket elevators.
- Integral mounting flange and detection port cleaning assembly simplifies installation and maintenance.
- DOT and Transport Canada (TC) approved extinguishers enable transportation while pressurized - on site filling not required during installation.
- Lightweight - minimizes the need for reinforcing leg casings.
- Microprocessor-based control panel provides supervision, annunciation, and process interlock.
- Isolation extinguishers provided for dust extraction lines.
- Two detectors in “cross-zone” configuration required for system actuation.

#### X-PAC® IV



## Application

The IEP Technologies X-PAC® IV Grain Elevator Protection System is a cost-effective solution to the explosion risk associated with grain bucket elevators. Explosion protection systems are a suitable approach for protecting grain elevator legs handling bulk raw grain per NFPA 61 Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities. The X-PAC® IV offers a significant advantage over vented elevator legs by providing explosion isolation extinguishers on the elevator inlet chutes, discharge chutes, and dust extraction lines. Isolation extinguishers mitigate the propagation of explosions to connected equipment where devastating secondary explosions can occur. This is a particularly important consideration for elevators feeding the main grain storage silos.

## Specifications

Control	EX 200 - refer to publication MC-515 for details.
Detection	Diaphragm operated explosion pressure detector - refer to publication MC-524 for details.
Extinguisher Unit Dimensions cm (in)	<ul style="list-style-type: none"> <li>• 32.39 (12.75) deep</li> <li>• 55.25 (21.75) high</li> <li>• 26.04 (10.25) wide</li> </ul>
Approximate Weights kg (lbs)	<ul style="list-style-type: none"> <li>• Extinguisher Unit - 22.67 (50)</li> <li>• Duct Isolation Unit - 22.67 (50)</li> <li>• Shutdown Detector - 10.5 (21)</li> </ul>

## Part Numbers

Description	Part Number
X-PAC® IV Extinguisher Unit	32-240000-021
X-PAC® IV Duct Isolation Unit	32-240000-022
X-PAC® IV Shutdown Detector	32-200001-002
EX200 Control Panel	32-091500-101
*Transport Canada approved X-PAC® IV units are also available.	

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