

A close-up, top-down view of a dark, metallic, five-spoke wheel hub. The hub is highly reflective, showing highlights and shadows. In the center of the hub is a circular opening. The five spokes radiate from this center. Each spoke contains a glowing blue liquid, which appears to be flowing or bubbling, creating a dynamic and futuristic look. The background is solid black.

*firefly* EXIMIO

**CHANGING THE  
WORLD OF INDUSTRIAL  
FIRE PROTECTION**



## Firefly EXIMIO

Every year, thousands of industrial plants suffer from fires and dust explosions. Whenever you produce, handle, store or transport combustible material such as for example wood, tissue or sugar, you are exposed to this risk. The result may be costly production downtime, loss of revenue or in the worst case human injury or loss of life.

When you are exposed to a risk of fire or dust explosion in your plant, you require a safety system to assist you in covering this risk. This is why Firefly has offered fire and dust explosion safety systems to the worldwide process industry for the past four decades.

Until today, no one has succeeded to equal the performance and reliability of Firefly's products and solutions. The company now takes its next innovative technological step with the introduction of its new system generation EXIMIO.

EXIMIO differentiates itself through:

- Higher safety through unique and patented technology
- User-friendliness
- Lower Total Cost of Ownership (TCO)
- Higher service level

### Higher safety through unique and patented technology

A Firefly safety system always consists of three main integrated functionalities: detection, extinguishing and control. It is Firefly's philosophy that truly dangerous ignition sources such as sparks, hot particles and flames in industrial processes need to be detected and the risk eliminated by means of effective extinguishing. The detection and extinguishing system functionalities are to be fully controlled by an intelligent monitoring and control system.

#### *Detection*

One of EXIMIO's unique features is its patented **TrueDetect™ technology**. Firefly uses True IR detectors to detect sparks, hot



particles and flames in both fall chutes and pneumatic conveying systems. Each Firefly True IR detector is insensitive to daylight and equipped with the **Multi-checkpoint technology™**, to minimise false alarms and ensure detection quickness and reliability. Firefly also protects high risk machinery such as for example planers or board presses with state-of-the-art flame detectors as part of its “Guard”-concept solutions.

### *Extinguishing*

Firefly **PowerImpact extinguishing™** and Firefly water mist are integrated parts of EXIMIO. Firefly offers powerful full-cone extinguishing with a unique nozzle design and placement aimed to penetrate and cover the entire material flow inside a fall chute or pneumatic conveying system.

In case flame suppression in or around high risk machinery is required, Firefly offers its non-invasive water mist suppression in order to provide optimal safety for machinery.

### *Control*

EXIMIO also consists of a new purpose-built monitoring and control unit. Through advanced design, detection and extinguishing actions can be fully and intelligently monitored and controlled.

Firefly **ProAct™ technology** is a new patented feature of EXIMIO. With this unique damage-limiting technology, Firefly has integrated four decades of process knowledge and experience into the intelligence of the system. By means of highly advanced data gathering and -analysis, Firefly's ProAct™ technology can activate precaution measures in order to avoid a fire or dust explosion to spread further into the process.

The patented Firefly **HydroTest™ technology** signifies the company's strive to provide its customers with the highest system performance. As first and only supplier in the world, Firefly is able to monitor and control the condition of water supply and hydropress tanks. This is yet another example of Firefly's innovative customer-focused thinking and design.



Normal system status



Detection indication



### User-friendliness

With EXIMIO, the passionate Firefly engineers have created an intuitive system that distinguishes itself by providing true user-friendliness.

#### *EXIMIO IntuVision™*

- Inspired by mobile smart phones, EXIMIO IntuVision™ is Firefly's new user-friendly operator interface.
- IntuVision™ gives a quick one-screen overview of the entire EXIMIO system installation, with all details 'a click away'.
- IntuVision™ is easily connected to a PC/PLC.

#### *EXIMIO InfoLed™*

Detectors and other key parts of the EXIMIO system are designed with integrated colour-coded led indicators. Direct communication between key parts of the EXIMIO system and the operator is yet another feature that truly makes EXIMIO the most user-friendly system on the market.

### Lower Total Cost of Ownership (TCO)

Firefly systems have an average operational life of more than 20 years. Therefore, the total cost of ownership of a fire safety system becomes highly relevant.

#### *EXIMIO offers a lower TCO:*

- EXIMIO uses its unique **TrueDetect™ technology** to minimise false alarms. This saves costly production loss.
- EXIMIO provides many advanced and integrated system features to give the highest value for money.
- EXIMIO is cost-efficient to install, due to its decentralised system design.
- EXIMIO offers guaranteed long-term spare part availability.
- EXIMIO is built to be maintained and serviced in a user-friendly and efficient way.

### Higher service level

Firefly has provided its worldwide customers with service



and maintenance for more than four decades. Firefly values its customers and is committed to providing the best service.

In complement to Firefly's worldwide field service, maintenance and spare part supply, EXIMIO offers 'safe running' through online services:

- EXIMIO enables online monitoring and remote support.
- EXIMIO offers the most intelligent and advanced integrated automatic test and monitoring functions to ensure the highest reliability.
- EXIMIO offers online diagnostic capabilities which enable the Firefly Service Centre to remotely access the system.

### About Firefly

Firefly is a Swedish company that provides spark detection and industrial fire protection systems to the worldwide process industry. Founded in 1973, Firefly has specialised in creating

customer adapted system solutions of the highest technical standards and quality.

Firefly owns more than 40 patents, creating a unique portfolio of innovative products and system solutions. The company holds international approvals on its products and is noted on the OMX/NASDAQ First North Exchange in Stockholm, Sweden.

Firefly EXIMIO is the latest innovative technological step in the company's strive to deliver system solutions and services with focus on the specific needs of each customer.

**Do you have a question about the fire and explosion risk in your plant? Contact us!**

We will be happy to assist you with our knowledge and experience.

*Firefly – Keeps you in production*



## EXIMIO patented technologies and unique features in short

### TrueDetect™ technology

Firefly's unique True IR detectors are insensitive to daylight and designed to detect all dangerous ignition sources such as sparks, hot particles and flames in both fall chutes and pneumatic conveying systems.

### Multi-checkpoint™ technology

A patented feature in all Firefly True IR detectors, to minimise false alarms and to ensure detection quickness and reliability in both fall chutes and pneumatic conveying systems.

### PowerImpact extinguishing™

Powerful full-cone extinguishing with a unique nozzle design and placement aimed to penetrate and cover the entire material flow inside a fall chute or pneumatic conveying system.

### ProAct™ technology

Highly advanced data gathering and – analysis activates precaution measures in order to avoid a fire or dust explosion to spread further into the process.

### HydroTest™ technology

Monitoring and control of the condition of water supply and hydropress tanks.

### EXIMIO IntuVision™

Firefly's new user-friendly operator interface, inspired by mobile smart phones.

### EXIMIO InfoLed™

Colour-coded led indicators on detectors and other key parts of the EXIMIO system.





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PREVENTIVE PROTECTION SYSTEM FROM

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SWEDEN