



Fixed extinguishing systems

We ensure your safety...



INERGEN® - the choice which is safe for people

A short while after INERGEN® has been released in the protected room, typically within 30-45 seconds from the start of the extinguishing, the fire will be extinguished - without any risk to people or inventory.

** You should always evacuate a room on fire. Usually a fire will develop smoke which can be harmful to people and cause asphyxiation.*



Automatic extinguishing systems with INERGEN® is today considered to be the extinguishing system on the market which is the safest for people.

It is exactly the human safety factor which makes systems with INERGEN® so much better than other alternatives on the market today.

The extinguishing principle behind fixed extinguishing systems with INERGEN® is oxygen replacement.

This means that the oxygen content in the atmosphere which is about 20.9 % is lowered to somewhere between 10-14 %. At this oxygen level most common fires will die out.

Where other extinguishing agents just lower the oxygen level, INERGEN® distinguishes itself by maintaining an oxygen level which ensures that people can remain in the room. And that is precisely why systems with INERGEN® are the extinguishing system today which is the safest for people.

Information on fixed extinguishing systems with INERGEN®

An extinguishing system with INERGEN® is often experienced as being a technically complicated product. It does not have to be that way seen from a user perspective. And that is what this brochure aims to illustrate.

If you have no knowledge of extinguishing systems, this brochure will provide you with information about the basic principles behind extinguishing systems with INERGEN® and illustrates what it means for the people who have their daily activities in the fire-protected room.

Fire prevention is not only a question about preventing fire. It is just as much a question of safeguarding people and preventing consequential damage to the environment and inventory.

Basic principles which fixed extinguishing systems with INERGEN® fully meet. If you have any questions which this brochure does not answer, please contact our sales department on tel.: +45 7022 2769.

Furthermore you can find more information about Fire Eater and our products on www.fire-eater.com.

Fixed extinguishing systems ensure your safety...



With a fixed system you ensure your core business against production stops which may arise in connection with fires in servers, computer rooms or in vital production equipment, etc. Production stop which for many companies may bring about huge costs and loss of income.

Fire Eater's extinguishing systems are developed for all sectors and environments where efficient safeguarding of values and people is high on the list of priorities.

Fire Eater's objective for modern extinguishing systems is thus:

- To protect human lives
- To protect property and inventory
- To protect the environment

How do fixed extinguishing systems work?

A fixed system typically consists of six parts:

- 1: Control panel
- 2: Detection
- 3: Discharge call point
- 4: Alarm signal boards
- 5: INERGEN® cylinders
- 6: Pressure relief

Control panel:

The control panel is the brain behind a fixed system. It co-ordinates all the measures needed to extinguish a fire.



The control panel is self-monitoring, which means that it continuously tests whether all circuits are intact and ready for use. If the control panel encounters a fault which may cause the system to be un-operational, it will indicate system fault.

If the fault cannot be corrected by means of the enclosed operation instruction or the user manual, please contact our service department which is open 24 hours a day.

We offer various types of control panels depending on the individual needs. Our sales department is ready to guide you with respect to which type of control panel is best suitable for precisely your situation.

Detection:

The purpose of detection is to discover a fire as quickly as possible in order to reduce the extent of the damage. When a fire is discovered, a signal is transmitted to the control panel which initiates the extinguishing.

Today there are many types of detection. Depending on the nature of the room and the requirements, it is possible to discover a fire before it causes huge damages.

Usually in this type of fixed systems point detection with smoke detectors or aspiration systems, which are very sensitive smoke detection systems, are used. By point detection 2 or more detectors are placed on the ceiling which ensures a safe and quick detection.



How do fixed extinguishing systems work?

Manual discharge call point:

If a fire breaks out while people are in the room, it is possible to initiate extinguishing yourself. Call points which can be activated manually can be found at all exit doors.



This way people can activate extinguishing themselves when they exit a room. When manual activation is initiated, the doors must be closed so that INERGEN® does not leak out of the room.



How do fixed extinguishing systems work?



Alarm signal boards:

Alarm signal boards which are placed at the main door will make a buzzing sound and light up when extinguishing is initiated.

There will be a buzzing sound before the system is released. When the sound changes from pulsating to continuous, 30 seconds will pass until the system is released.

People must leave the room before extinguishing.

INERGEN® cylinders:

Are used to store the extinguishing agent INERGEN®. The cylinders will typically be placed in a vertical position but can also be installed horizontally. This ensures great flexibility with respect to where to place the cylinders.

The cylinders are equipped with a manometer which shows whether the cylinders are pressurised or not. If the manometers show no pressure, the cylinders are empty and must be refilled.



How do fixed extinguishing systems work?

In such a situation the control panel will automatically sound the alarm. This ensures that the system remains functional at all times.

The cylinders are emptied when the manual discharge call point has been activated or when detection has discovered a fire automatically.



Pressure relief:

When INERGEN® is released, an overpressure and turbulence will arise in the protected room. An overpressure which must be equalised in order for a controlled extinguishing to take place.

This is precisely why the pressure relief is an important part of an extinguishing system. The pressure relief is dimensioned individually from system to system and is adapted to the individual installation.

Refilling:

After the system has been released, it must be refilled. We provide round the clock service which means that we can start refilling the INERGEN® system within 24 hours.

This is, however on condition that a service contract has been signed.

More information:

You are always welcome to contact us for more information as a client or as somebody considering safeguarding your company.

We often perform a live demonstration of fixed extinguishing systems, a so-called full-scale test. This way you can get a first hand impression of the extinguishing system's unique extinguishing qualities.

Contact our sales department for more material or visit www.fire-eater.com.



