



OneU  
Active extinguishing system for 19" racks

Safe for certain.

**MINIMAX**

# SMALL – BUT

## ONLY 44 MILLIMETRES HIGH

IT-systems which once used to take up the whole area of a computer centre today can be combined into a single high-tech IT rack system. Cooling and power supply per rack, a compact and modular configuration and high availability are the features of these rack systems.

The OneU active extinguishing system offers perfect fire protection, optimised for these "IT Worlds". It stands out due to its fire detection and extinguishing per rack, its slimline 1 unit (1U) space take-up, its modular extensibility with slave systems and its high availability through redundant components, integrated battery buffering and docking slot feature. All in all it sets new standards for 19"-extinguishing systems.

### Product

The OneU active extinguishing system is designed for installation in closed 19" switch cabinet systems and presents a small revolution in terms of space requirements and features.

Its compact form is unmatched and this has been achieved without impairing function, quality or reliability. The slim installation height of 1U allows a problem-free and space-saving installation. A power pack with integrated emergency power supply ensures interruption-free operation.

The OneU active extinguishing system's unique docking slot mechanism allows the unit to be pushed in and pulled out in seconds. All peripheral connections, the extinguishing nozzle and the sampling pipe system are permanently connected to a pre-assembled adapter strip.

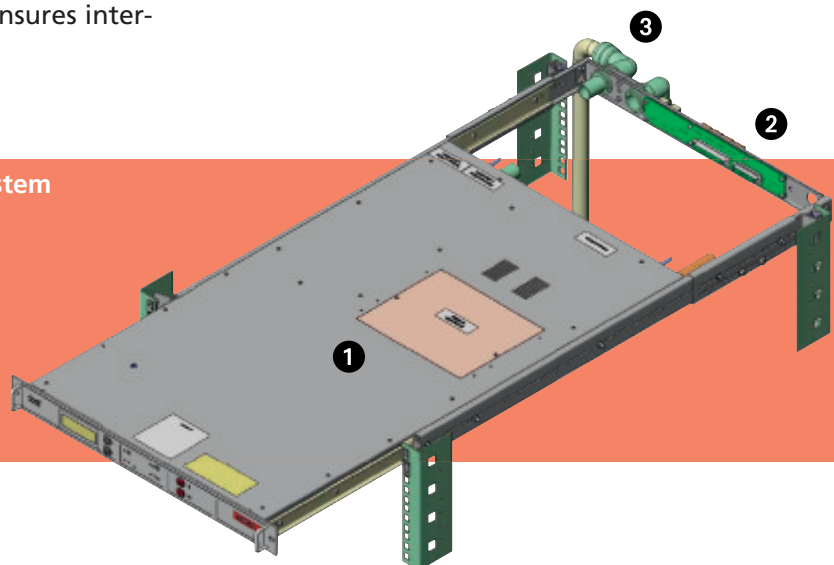
### Just like the big ones

One unit contains:

- ▶ A sensitive smoke aspiration system
- ▶ An extinguishing agent container fitted with electro-magnetic actuation
- ▶ Loss-monitoring of the extinguishing agent
- ▶ A battery-buffered emergency power supply
- ▶ Evaluation and control electronics
- ▶ Connections for external alarm equipment and for switching off electrical circuits
- ▶ A clear, user-friendly control panel

Despite its compact design the OneU active extinguishing system has available extinguishing agent for up to 3 m<sup>3</sup> of protected volume. An innovative container and actuation design takes every advantage of the small dimensions and the extinguishing agent used (Novec™ 1230).

The OneU active extinguishing system consists of **1** plug-in unit, **2** docking slot and **3** sampling pipe system



# STRONG

## THANKS TO RESIDUE-FREE EXTINGUISHING

GAS EXTINGUISHING SYSTEMS

COMPACT EXTINGUISHING SYSTEMS

### Function

The OneU active extinguishing system is a compact, independent unit for detecting and extinguishing fires in closed cabinet systems.

A sensitive smoke aspiration system with two fire detectors permanently monitored for operational reliability continuously takes air samples from the whole volume in the cabinet. It detects fires as early as the start-up phase and then reacts in two stages:

- ▶ On a pre-alarm being given, simultaneously with the alarm signal power circuits can be switched off to cut off supporting energy to a starting fire.
- ▶ If the fire continues to develop the fire alarm on the extinguishing system is activated. The extinguishing agent Novec™ 1230 vaporises at the nozzle and is distributed throughout the cabinet to produce an effective fire extinguishing effect. The fire is thus extinguished rapidly and without leaving any residue of extinguishing agent.

Alarm and fault statuses are shown on the display and if necessary routed to higher level systems. As an option acoustic and optical alarm installations can also be activated.

### Areas of Use

The OneU active extinguishing system should always be used where a high level of availability of technical installations is absolutely essential. Such installations are:

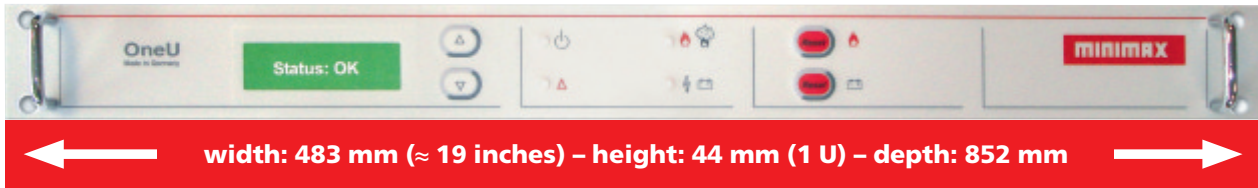
- ▶ **IT, server and network technology**, which ensures round-the-clock availability of essential company data,
- ▶ **Production controls**, which control and monitor production processes
- ▶ **Telecommunications installations**, which ensure fault-free communication for the company
- ▶ **Power supply and control systems**, which ensure adequate power at the right time and in the right place in the company

Early fire detection combined with an automatic extinguishing system minimises potential downtimes and damage resulting from a technical defect.

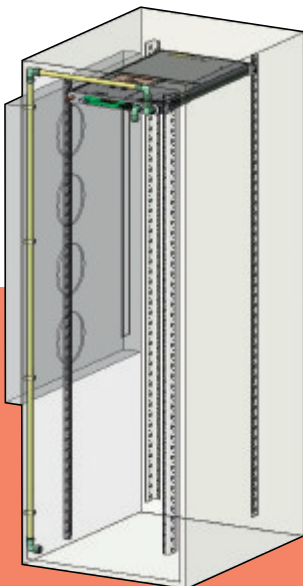


# ADVANTAGES

## COMPACT AND FLEXIBLE



- ▶ The compact design of only 1 U contains a complete extinguishing system with battery buffered emergency power supply.
- ▶ The integrated smoke aspiration system includes two redundant fire sensors and reacts in two alarm stages.
- ▶ The effective extinguishing agent Novec™ 1230 is sufficient for up to 3 m<sup>3</sup> of protected volume.
- ▶ The docking slot mechanism simplifies installation and service. It has a pre-assembled adapter bar with all peripheral connections including the one for the sampling pipe and an opening for the extinguishing nozzle. Thus the unit can be quickly pushed in and pulled out.



OneU active extinguishing system installed in a directly ventilated cabinet system.

Technical Data	
Fitting dimensions (W x H x D) in mm	483 (≈ 19") x 44 (1 U) x 852*
Weight (including extinguishing agent and cartridge with propellant)	approx. 25 kg
Operating temperature	10–35 °C
Protection class	IP 20
Permitted protected volume	max. 3 m <sup>3</sup>
Extinguishing agent	3.2 kg Novec™ 1230
Sensors	2 different sensitive scattered light sensors for 2 alarm thresholds
Input manual actuation	at rest 1.8 kΩ, alarm 470 Ω
Input extinguishing blocking	max. 10 door contacts
Outputs alarm, fault, max. contact load	24 V DC, 0.5 A
Emergency power supply (accumulator)	2 x 12 V, 2.2 Ah approx. 4 hours
Operating voltage	100/240 V AC, 50/60 Hz

\*Including docking slot, without handle.

Minimax GmbH & Co. KG  
 Industriestraße 10/12  
 23840 Bad Oldesloe  
 Germany  
 Phone: +49 4531 803-0  
 Fax: +49 4531 803-248  
 E-mail: info@minimax.de  
 www.minimax.de



Certified according to ISO 9001