



PRODUCT SHEET

OneU® ACTIVE EXTINGUISHING SYSTEM

The Viking Corporation | 210 N Industrial Park Drive | Hastings MI 49058

Viking Special Hazards | Technical Services: 877-384-5464 | Email: techsvcs@vikingcorp.com | www.vikinggroupinc.com

1. GENERAL INFORMATION

The OneU® active extinguishing system is intended for installation in closed switch cabinet systems. It is designed as a small stand-alone unit that is capable of detecting and extinguishing fires using the Novec 1230™ clean agent which leaves no residue. Two fire detectors are used to detect fires. Alarms and fault conditions can be transmitted to a control system via dry contacts.

Features:

- Compact 1U design
- Smoke detection within unit
- Installation within existing cabinets and racks
- Expandable using slave modules for protection on four other sites
- Residue-free extinguishing agent Novec 1230™ (a 3M™ product)
- Low maintenance

2. APPROVALS/MARKINGS



3. TECHNICAL DATA

Table 1: Specifications

Detection method	2 Optical smoke detectors
Rated Voltage	100-240 VAC, 50/60 Hz
Emergency power supply	~ 4 hours
IP Rating	IP 30
Ambient temperature with batteries	Operating: 50 to 104 °F (10 to 40 °C) Storage: -4 to 149 °F (-20 to 65 °C)
Humidity	Maximum 96%, no condensation
Ports	4 dry changeover contacts Pre-alarm, fire, extinguishing, group fault, for 30 VAC/DC 0.5A
Display features acc. DIN 14497	1 X LCD with text display 1 X LED green "Operation" 1 X LED yellow "Shutdown" 1 X LED Red "Extinguishing system triggered" 1 X LED Red "Extinguishing system released" 1 X LED yellow "Blocked" 1 X LED yellow "Failure"
Aspirating tube	Plug-in system 0.86" (22 mm)
Airflow monitoring	±10% volumetric flow rate (adjustable)
Extinguishing agent/capacity	Novec 1230™ / 0.48 gallon (1.8 L)
Protected volume	Maximum 98 ft³ (2.78 m³)
Weight	~34.2 lbs (15.5 kg)
Enclosure dimensions	19", 1U, 26" (660 mm) deep



WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Part Numbers

OneU® active extinguishing system: 916237

Aspiration tube system: 907061 (not included)

Optional accessories:

OneU® ED Extinguishing system: 916238

NOTE: Door contact switches, part no. 889337, with retainers are to be provided by the customer. OneU can perform fire detection monitoring for up to five server cabinets, but not selectively. One OneU active extinguishing system can control up to 4 or more extinguishing modules.

Application and Function

The ideal area of application for the OneU® are spaces with a self-contained atmosphere, as found in server, network, modem and IT cabinets, modem and machine control cabinets, high- and low-voltage cabinets, and telephone distribution cabinets. The smoke aspiration system takes air samples from the entire cabinet volume and conveys them past the two sensitive smoke detectors. When the alarm threshold is reached, shutdown measures can be initiated. If the smoke concentration continues to rise, the extinguishant container is triggered by the alarm threshold. The extinguishing agent is discharged, vaporized at the discharge nozzle and distributed effectively in the cabinet.