VIKING®	PRODUCT SHEET	OneU® DD ASPIRATING SMOKE DETECTION SYSTEM

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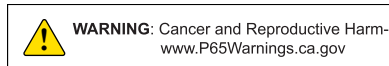
1. GENERAL INFORMATION

The OneU® DD aspirating smoke dection system is intended for installation in closed switch cabinet systems. It is designed as a small stand-alone unit that is capable of detecting 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 by networking with OneU® ED (slave system) for protecting up to 4 other sites
- Low maintenance

2. APPROVALS/MARKINGS

⚠️ **WARNING**: Cancer and Reproductive Harm- www.P65Warnings.ca.gov

3. TECHNICAL DATA

Table 1: Specifications	
Detection method	2 Optical smoke detectors
Rated Voltage	100-240 VAC, 50/60 Hz
Operating voltage	24 VDC
Emergency power supply	~ 4 hours
IP Rating	IP 30
Ambient temperature with batteries	Operating: 50 to 104 ºF (10 to 40 ºC) Storage: -4 to 149 ºF (-20 to 65 ºC)
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% total air flow current
Weight	~21.2 lbs (9.6 kg)
Enclosure dimensions	19", 1U, 19.3" (490 mm) deep

Part Numbers
OneU® DD aspirating some detection system: 916236
Aspiration tube system: 907061 (not included)

Optional accessories:
OneU® ED Extinguishing system: 916238

NOTE: Door contact switches, part no. 889337, with retianers are to be provided by the customer. OneU® DD can perform fire detection monitoring for up to five server cabinets, but not selectively. One OneU® DD can control up to 5 OneU® ED 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.