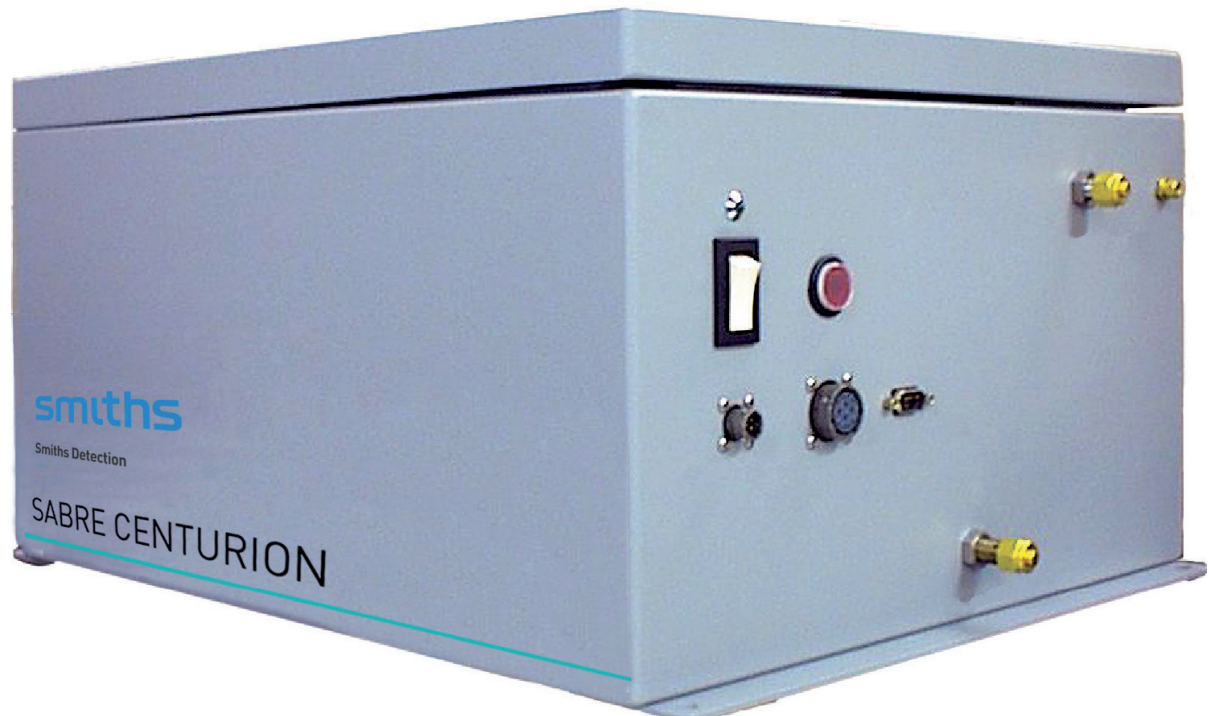


# CENTURION

## FIXED-SITE CHEMICAL WARFARE AGENT AND TOXIC INDUSTRIAL CHEMICAL DETECTION SYSTEM



### Feature highlights

- Ideal for HVAC system monitoring
- Simultaneous detection of Chemical Warfare Agents and Toxic Industrial Chemicals
- Unattended 24/7 operation
- Automated response capability
- Ethernet communication and interface

The CENTURION detection system provides fixed-site continuous ambient air monitoring for chemical warfare agents and toxic industrial chemicals.

Ideally suited for HVAC (Heating Ventilation Air Conditioning) systems, the CENTURION can be connected directly to the incoming air ducts to provide early warning of a potential chemical threat.

It can be programmed to automatically actuate userdefined responses to an alarm, such as shutting down dampers or turning off fans.

The CENTURION system consists of a central PC-based command and control center integrated with multiple remotely located detectors.

Data is communicated over a Local Area Network (LAN) interface and a centrally located unit supplies air and power to the detector head. Each detector has on-board supplies of verification substances and can be programmed to periodically run self-tests.

Continued overleaf

# CENTURION

## CENTURION System

The actual detector utilizes Ion Mobility Spectrometry (IMS) technology for the simultaneous detection of a suite of CWAs and TICs. This is the same technology used in the widely deployed IONSCAN and SABRE 4000 trace detectors.

Multiple heads can be connected to one central command center.

The PC-based, command and control monitoring software can display detector head locations

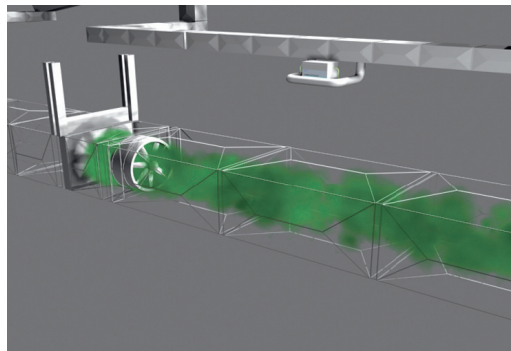
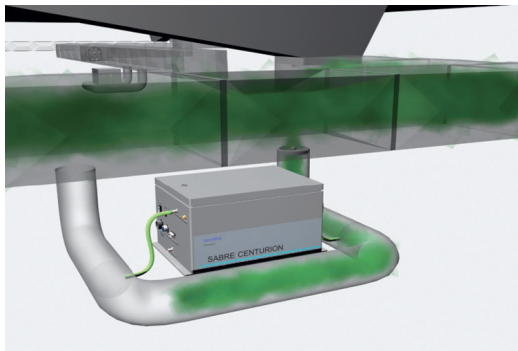
and give real-time monitoring views for each detector. Should an alarm occur, automated responses, including shutting down air-handlers and sending email or pager alerts, are possible.

Dry air is fed to the detector head from a centrally located module operated by a Regenerative Air Purification Unit (RAPU), reducing cost of ownership and simplifying maintenance.

## Technical Data

### General Specifications

Technology	Ion Mobility Spectrometry (IMS)
CW Agents Detected	Nerve and blister agents such as Tabun, Sarin, Soman, Cyclosarin, Agent VX and Vx, Nitrogen Mustard and Mustard
TICs Detected	Cl <sub>2</sub> , HCl, HNO <sub>3</sub> , SO <sub>2</sub> , HCN, HF, HBr, BCl <sub>3</sub> , BF <sub>3</sub> , CS <sub>2</sub> , Phosgene, Ammonia, Ethylene Oxide and Diborane
Detector Weight	31 lbs. (14kg)
Detector Size	18" x 16" x 11" (46 x 41 x 28 cm)
Detector Operating Temperature Range	50°F to 113°F (10°C to 45°C), less than 95% relative humidity, non-condensing
RAPU Module Weight	12.3 lbs. (5.6 kg)
RAPU Module Size	11.3" x 9" x 9.5" (28.6 x 22.9 x 24.5 cm)
Power	Detector: 110/220 VAC RAPU Module: 90/264 VAC



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