



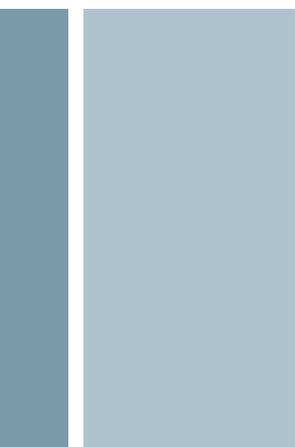
Sinorix™

# Door-Fan-Test

Measure room tightness easily,  
quickly and reliably.

Building Technologies

**SIEMENS**



# Why you need the Sinorix™ Door-Fan-Test...

Extinguishing systems put out a fire quickly and reliably if the necessary extinguishing concentration can be built up rapidly and maintained for at least 10 minutes. For this to happen, the rooms to be protected must be sufficiently airtight. And to ensure that they are, room tightness measurements using the Door-Fan-Test have been recommended internationally for years. Some country-specific standards even require repeating these measurements on an annual basis.

The Sinorix™ Door-Fan-Test from Siemens offers a simple, cost-effective and environmentally friendly method for measuring room tightness – and can also be used to directly locate leaks at any time.

# ...and how it works.



## Preparation and execution – fast and inexpensive

The room tightness test is used to locate leaks in an extinguishing area. It can quickly and inexpensively determine the holding time of the extinguishing concentration. To test a room, a fan is placed in the entrance door. It blows air into the extinguishing area or removes air from the room, creating an overpressure or partial vacuum of approx. 50 Pa, and allowing any leaks to easily be located.

## Measurement and analysis – easy and reliable

Based on the delivery rate of the fan, special software then determines how much air must be discharged into the room to maintain the generated pressure. At a low flow rate, the leakage volume is low, and at a high flow rate, the leakage volume is high. The software quickly provides an exact result – just a few parameters are needed.

Any existing leaks at openings for cables and pipes, at windows, doors or ventilation equipment or at other locations in the room can be easily detected using a smoke simulator. Once located, these leaks can usually be easily and specifically sealed.



## Our recommendation – test regularly

The Sinorix™ Door-Fan-Test should be performed prior to every initial installation and then repeated at regular intervals – because buildings age, rooms change, new cabling is installed, and seals lose their effectiveness. Annual testing ensures that new leaks are discovered and can quickly be eliminated.

### Sinorix™ Door-Fan-Test – the advantages at a glance:

- Fast testing of the room tightness – with special hardware and software
- Exact locating of leaks – using a smoke simulator
- Simple test setup – possible to repeat the test at any time
- Cost-effective solution – no trial discharges, no use of extinguishing agents, no interruptions of operations
- Does not affect inventory – absolutely harmless, for example, for equipment such as computers, machines or electronics



### **Fast – without interrupting operations**

The Sinorix™ Door-Fan-Test is set up and taken down quickly – and delivers fast results. Moreover, the test doesn't interrupt ongoing operations in the room to be protected, preventing any production losses or delays in order processing.

### **Convenient – constant protection**

The Sinorix Door-Fan-Test makes it possible to measure room tightness without actual discharge of extinguishing agents. That saves time and money. Moreover, the extinguishing system remains fully functional throughout the test – there are no downtimes as a result of empty extinguishing agent cylinders or the need to refill them.

### **International – complies with ISO**

The Sinorix Door-Fan-Test meets the requirements of the ISO 14520 standard, which specifies that rooms equipped with gas extinguishing systems must be tested upon start-up of the systems. Moreover, testing is either required or recommended by most certification institutes.

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The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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