

UG-7 UNIGUARD SUPERFLOW

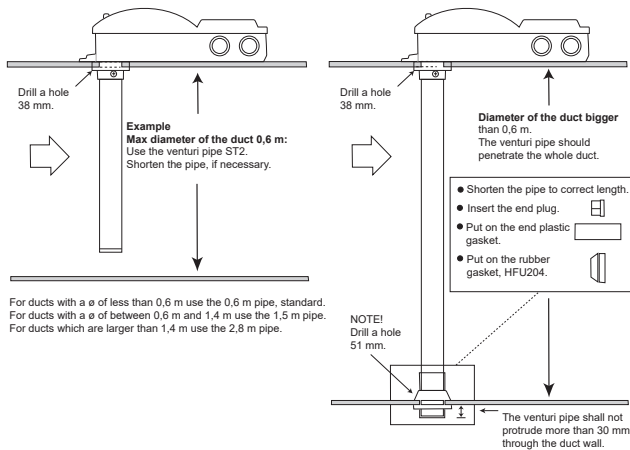
Smoke detector housing for duct installation.
Designed to comply with prEN 54-27 or UL.



TECHNICAL DATA

Detector type:	Not included
Protection class:	IP54
Weight:	880 g
Air sampling tube:	Aluminium

The length of the venturi tube shall be chosen based upon how wide the ventilation duct is. The venturi pipes are available in 3 lengths: 0.6, 1.5 and 2.8 m. When the ventilation duct is wider than 0,6 m (dia), the venturi pipe should penetrate the **whole** duct. Please see below sketch.



CHARACTERISTICS

- Designed to comply with prEN 54-27 and UL
- One-pipe air sampling system Uniguard Superflow
- Patented venturi pipe and duct housing
- Test hole on cover
- Simple installation
- Simple service and maintenance

FUNCTION

The patented UG-7 is developed to be combined with virtually any smoke detector on the market. Both the venturi pipe and the housing are especially designed to optimize the airflow through the smoke detector. The system fulfils all the requirements for safe fire detection with airflow speeds from 0,5 m/s to 20 m/s (100 ft./min to 4000 ft./min), depending on the smoke detector's sensitivity. The housing is also available as a version with a taller lid to accommodate larger detectors.

The UG-7 duct smoke detector housing is designed to comply with the demands of the prEN 54-27 and UL standard.

VENTURI EFFECT

By using the shape of an airplane wing, the unique and patented Calectro venturi tube is probably the most effective air sampling tube available on the duct smoke detector market. The venturi effect, created by using dual outflows at the optimal points of separation, enables smoke detection even at very low duct air velocities.

BASIC PRINCIPLES FOR POSITIONING

The UG-7 shall be installed pointing towards the air flow direction. The Uniguard can be installed on any side of the duct. Rectangular ducts: In order to gain maximum air sampling coverage, install the Uniguard on the shortest side of a rectangular duct.

We recommend that the Uniguard is mounted at an equal distance from heating, cooling, or humidity devices, and similar to the placement of flow monitors. Please see our installation manual.

INSTALLATION

The venturi pipe is made of aluminium and can easily be shortened to suit the diameter of the duct. Hole diameter is 38 mm. With insulated or circular ducts - use the mounting bracket, hole diameter is then 51 mm.

When Uniguard is mounted in places where possible condensation problems could arise, e.g. in cold attics or outdoor, use UG-COVER-75 to avoid condensation. A sign should be used to show location of the detector.

FUNCTION TEST

When installation is complete, the detector should be tested. This can be carried out with a suitable test spray. Use the test hole on the cover and briefly release a spray. **Do not forget to refit the plastic plug after the test.**

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ORDERING EXAMPLE

Item code	Description
UG-7/STD	Smoke detector housing for duct installation
UG-7/STD-H	Smoke detector housing for duct installation with a high lid

ACCESSORIES

Item code	Description
UG-MB-75	Mounting bracket (for insulated/ circular ducts)
UG-COVER-75	Waterproof housing (for mounting outdoors, in cold attics etc.)
ST2	Sampling tube (length 0.6 m)
ST5	Sampling tube (length 1.5 m)
ST9	Sampling tube (length 2.8 m)
ST-EXTEND	Extension of venturi tube VR & ST, 1.06M

DIMENSIONS (mm)

