

SECURITON © Copyright by Securiton	Filter-box small (FBS 25PC)	TD 004 032	1 / 5			
Filter-box small d=25 as an accessory for aspirating smoke detectors Data Sheet	Status	Date	Ind.	Mod. No.	Abbreviation	released
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1. Field of application

The Filter-box small is used as an accessory part for aspirating smoke detector SecuriRAS® in areas with **low temperature conditions** (below 0°C) and high dust levels to prevent false alarms and to increase the lifespan of the smoke sensors substantially.

The filter insert is designed for the separation of particles and impurities. Due to their particle size, smoke particles can pass through this filter unhindered. Reliable and fast fire detection is thus ensured.

2. Construction

The Filter-box small is part of the suction pipe. The housing is made of polycarbonate, light grey paint (RAL 7035). The filter box can be opened using the 4 cover screws in order to clean the filter mat small for servicing work and to exchange it.

3. Function

The air polluted with dust particles is also aspirated by the aspirating smoke detector. So that these particles do not cause any false alarms, the aspirated air must be purified of these particles. The Filter-box small can be used for this purpose as an additional accessory component.

This is to be arranged directly in front of the evaluation unit in the suction pipe (see project planning notice). The aspirated air is conducted across the filter mat so that the dust particles are filtered by the filter. In the case of contamination of the filter mat, this should be exchanged during maintenance work.

Advantages of the Filter-box small

- Prevention or substantial reduction of false alarms
 - Lengthening of lifespan of smoke sensors
 - very low installation costs
 - subsequent installation possible at any time
 - low operating costs
 - applicable for all aspirating smoke detectors
 - quick, clean and inexpensive solution
 - **Field of application deep freeze area**
-

4. Assembly and commissioning

The Filter-box small must always be installed below the aspirating smoke detector to exclude false alarms due to falling dust particles. If the formation of ice (at temperatures up to -30°C) can be expected at the suction openings, a Wiring Connection Unit WCU 535 should be installed in front of the filter box in accordance with the application guidelines for deep freeze stores (T 131 390D). Assembly and arrangement should be carried out in accordance with the project planning notice.

5. Maintenance and servicing

Country-specific guidelines and standards apply for maintenance work and servicing. The maintenance and servicing of fire detection and alarm systems may only be carried out by trained personnel!

Furthermore, the Technical Documentation of the respective aspirating smoke detector must be considered.

When carrying out maintenance work on the aspirating smoke detector, the filter mat should be exchanged for the Filter-box small, if necessary, and contamination within the filter box should be removed.

6. Part numbers

Abbreviated designation		Type No. SECURITON
Aspirating smoke detector SecuriRAS® ASD 535-1		5000623-0101
Aspirating smoke detector SecuriRAS® ASD 535-2		5000623-0102
Aspirating smoke detector SecuriRAS® ASD 535-3		5000623-0103
Aspirating smoke detector SecuriRAS® ASD 535-4		5000623-0104
Smoke sensor SSD 535-1		5000613-0101
Smoke sensor SSD 535-2		5000613-0102
Smoke sensor SSD 535-3		5000613-0103
Manual ball valve PVC	MV 25 PVC	21.544.20D25
Manual ball valve ABS	MV 25 ABS	0.100862
Filter-box small d=25	FBS 25 PC	0.100169
Filter mat, small (white)		0.100229
Wiring Connection Unit WCU 535 PC	WCU 535 PC	500635-0101

7. Technical data

Features		
Environmental conditions		
Expanded environmental conditions:		
• Temperature range	-30 to +50	°C
Introduction	2x screw connections M32	mm
Housing material	Polycarbonate (PC)	
Housing colour	Light grey 7035	RAL
Dimensions (H x W x D)	80 x 82 x 85	mm
Weight	max. 300	g
Approval		
VdS	G 208154	
Building product approval	0768-CPD-20600	

Subject to technical modification!

8. Project planning notice

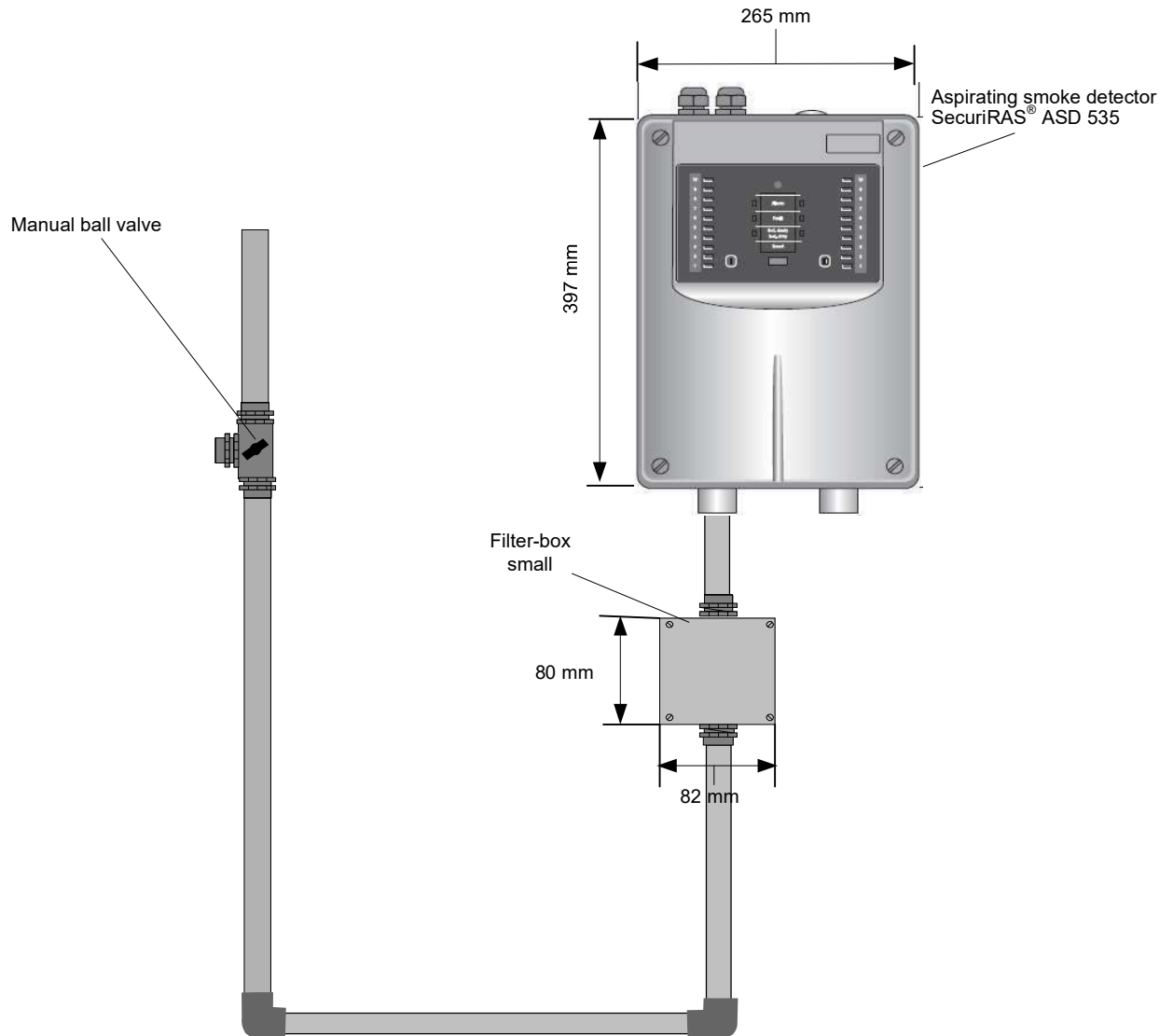


Fig. 1: Standard installation



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