

SECURITON © Copyright by Securiton	Water Retaining Box standard WRB 25 ABS/PVC				TD 004 012	1 / 5
Water Retaining Box standard as an accessory for aspirating smoke Detectors Data Sheet	Status	Date	Ind.	Mod. No.	Abbreviation	released
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Table of contents

Page

1.	Field of application	2
2.	Construction.....	2
3.	Function.....	2
4.	Assembly and commissioning.....	3
5.	Maintenance and servicing	3
6.	Part numbers	3
7.	Technical data.....	4
8.	Project planning notice.....	5



1. Field of application

The Water Retaining Box standard is used as an accessory part for aspirating smoke detector SecuriRAS® in areas with high air humidity to prevent false alarms and to increase the lifespan of the smoke sensors substantially.

The water collector serves to separate humidity in the aspirated air. Smoke particles may pass through the water collector unhindered. Reliable and fast fire detection is thus ensured.

2. Construction

The Water Retaining Box standard is part of the suction pipe. The housing is made of polycarbonate, light grey paint (RAL 7035). The water collector can be opened via the 6 cover screws to be able to carry out cleaning during service work.

3. Function

The air containing humidity is also aspirated by the aspirating smoke detector. So that no humidity reaches the evaluation unit (smoke sensors) and causes false alarms as a result, the humidity must be removed from the aspirated air. The Water Retaining Box standard can be used for this purpose as an additional accessory component.

This is to be arranged in front of the filter-box in the suction pipe (see project planning notice). The aspirated air is conducted over several lamellas within the water collector. The humidity collects beneath the lamella as condensate and is drained via the installed water outlet. Only the housing needs to be cleaned during maintenance work.

Advantages of the standard water collector

- Dehumidification of the aspirated air
- 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

4. Assembly and commissioning

The Water Retaining Box standard and its water outlet opening must **compulsorily** be installed with a minimum distance of 0.5m beneath the aspirating smoke detector so that the functionality of the water collector is ensured. Generally, use in combination with a filter box is recommended. 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, only the interior of the Water Retaining Box standard needs to be cleaned.

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
Filter-box large	FLB 25 PC	0.100793
Spare filter mat block fine stage		0.101132
Manual ball valve PVC	MV 25 PVC	21.544.20D25
Manual ball valve ABS	MV 25 ABS	0.100862
Dust Retaining Box (cyclone) d=25	DRB 25 PVC	0.101166
Water Retaining Box standard - ABS	WRB 25 ABS (ABS version)	50-0500057-01-01
Water Retaining Box standard - PVC	WRB 25 ABS (PVC version)	0.100908

4 / 5	Water Retaining Box standard WRB 25 ABS/PVC	TD 004 012d © Copyright by Securiton
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7. Technical data

Features		
Environmental conditions		
Expanded environmental conditions:		
<ul style="list-style-type: none"> Temperature range 	0 to +50	°C
Introduction	1x screw connections M32	mm
Housing material	Polycarbonate (PC)	
Housing colour	Light grey 7035	RAL
Dimensions (H x W x D)	390 x 250 x 90	mm
Weight	max. 1300	g
Approval		
VdS	G 208154	
Building product approval	0768-CPD-20600	

Subject to technical modification!

8. Project planning notice

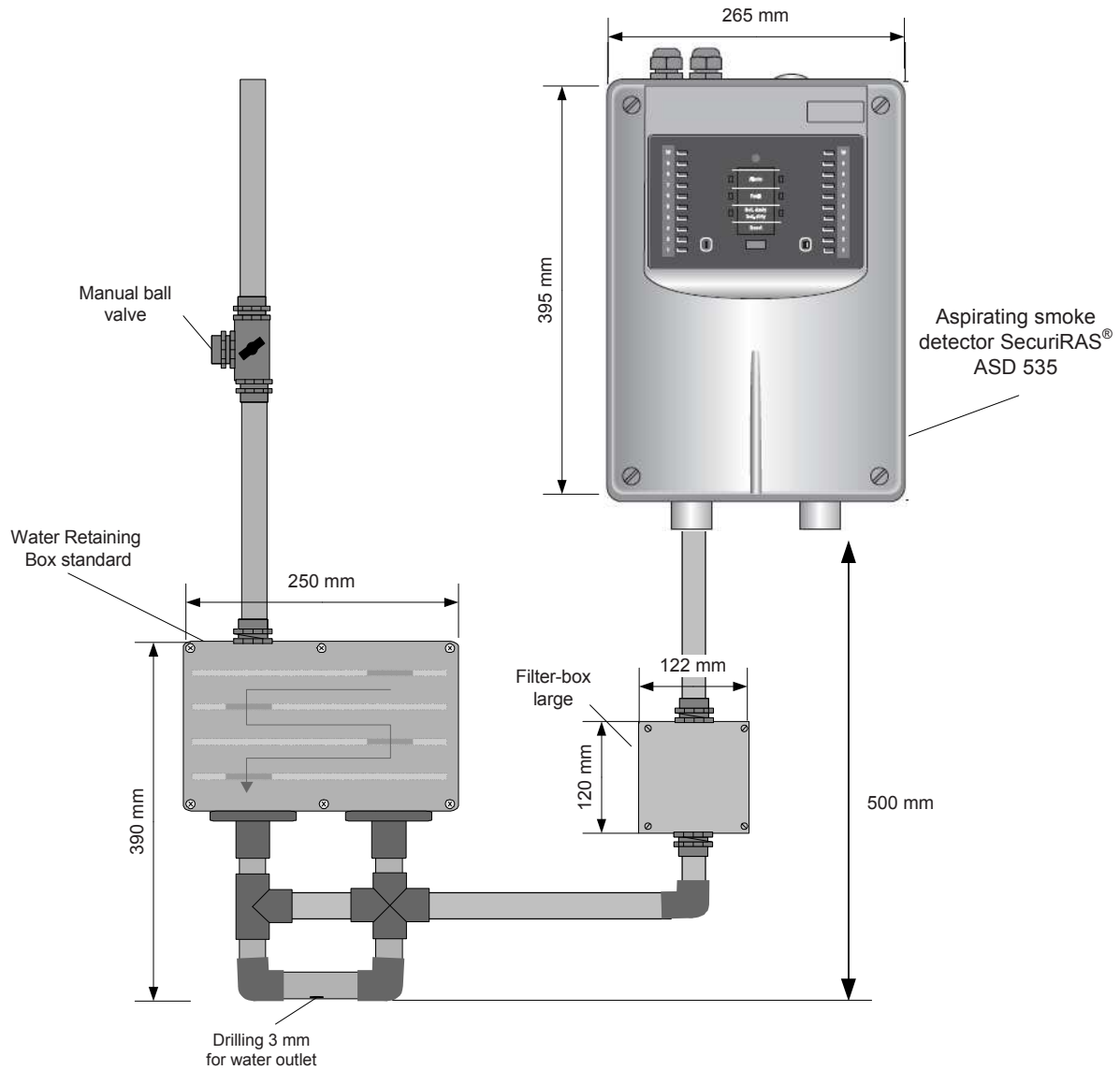


Fig. 1: Standard installation