

Noise insulation housing ASD NIH

Technical documentation



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Validity



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This document is intended for use by trained personnel for the mounting, installation, commissioning and maintenance of this product.

Document history

First issue Date 17/10/2010

Index “b” Date 01/03/2018

Main changes to the previous issue:

Section / Fig.	New (n) / changed (c) / deleted (d)		What / Reason
All	c	Documentation page format adjusted	New template for documentation
Section 8	c	Figures project planning notice	Update

Index “c” Date 01/01/2019

Main changes to the previous issue:

Section / Fig.	New (n) / changed (c) / deleted (d)		What / Reason
All	c	Changes to notices	Update
All	c	Changes to order	New template for documentation
6	c	Mounting guidelines	Revision of drawings
8	c	Part numbers	Changed designations

Index “d” Date 01/10/2023

Main changes to the previous issue:

Section / Fig.	New (n) / changed (c) / deleted (d)		What / Reason
	n	New product image	Cover sheet
3	N	Structure	Update
3.3	c	Scope of delivery	Addition
4.1	c	Interior view	Addition
8	c	Part numbers8	Update

Index “e” Date 01/02/2024

Main changes to the previous issue:

Section / Fig.	New (n) / changed (c) / deleted (d)		What / Reason
2	c	Field of application	Adjustment sound pressure level
3	c	Structure	Adjustment sound pressure level
9	c	Technical data	Adjustment sound pressure level

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1 General information

1.1 Safety and Environment

If the product is used by trained specialist personnel in accordance with this document and the safety symbols and all the instructions are observed, under normal circumstances and in the event of correct use, there will be no danger to persons, property or the environment. The product fulfils the requirements such that the health of persons and the environment are not endangered during operation. National and state-specific laws, regulations and guidelines must be observed and adhered to in all cases.

Observe these hazard warnings. They help to prevent accidents and avoid damage.

1.1.1 Advice and warning symbols

The following advice and warning symbols are used in the document to draw attention to dangers or special properties.



DANGER

The product may pose an immediate danger with a high degree of risk to persons if the instructions are not followed. If not avoided, death or serious injury may result.



WARNING

The product may pose a potentially imminent medium-risk danger to persons if the instructions are not followed. If not avoided, death or serious injury may result.



CAUTION

The product may pose a potentially imminent danger with a low degree of risk to persons if the instructions are not followed. If it is not avoided, a slight injury may result.



NOTICE

Failure to follow the instructions may result in malfunction of the product or damage to property or the environment.

1.1.2 Safety information



ELECTRIC SHOCK

The product is powered by electricity. Incorrect mounting, installation, commissioning and maintenance may result in death or serious injury due to electric shock. The safety information must be strictly observed.



READ THE INSTRUCTION MANUAL

To ensure the safe and proper use, it is essential that the instructions for use and other documents accompanying the product are read carefully before use and kept for future reference. In particular, the hazard warnings must be observed.



ELECTROSTATIC DISCHARGE

The product contains electronic components that are sensitive to electrostatic discharge (ESD). Contact with persons or objects can lead to an electrostatic discharge which can damage or destroy the product. ESD bands are used for the earthing of persons and for equipotential bonding as a preventive measure.

1.1.3 Disposal



ELECTRICAL/ELECTRONIC EQUIPMENT AND BATTERIES

Electrical and electronic equipment and batteries must not be disposed of with the household waste. As an end user, you are legally obliged to return the goods. After use, electrical and electronic equipment and batteries can be returned free of charge to the seller or to the designated collection points (e.g. municipal collection points or retailers).



RECYCLING

The product or components thereof, including the packaging, consist of recyclable material and may be disposed of for recycling in accordance with the information given in this document.

1.2 Product identification



NOTICE

The type plates, type designations and/or markings on devices and assembled printed circuit boards must not be removed, overwritten or otherwise made unrecognisable.

1.3 Warranty



NOTICE

The product may only be operated with the hardware, software and commissioning equipment specified and supplied by the manufacturer. Any unauthorized interference with the hardware and/or software as well as the use of non-system products is prohibited and may lead to malfunctions and/or damage to the product. This means that all warranty and liability claims against the manufacturer of the product are void. Non-observance of the instructions for use and improper maintenance and repair work will also void the warranty and product liability.

1.4 Product changes



NOTICE

Using the latest product software version at all times is generally recommended. No right to an update for existing products can be derived due to a hardware or software change of a product made by the manufacturer.

2 Field of application

The noise insulation housing NIH ASD is used as an accessory part for the aspirating smoke detectors ASD 532 and ASD 535 in areas where a low level of noise is required. If the ventilator noise from the aspirating smoke detector is found to be disruptive, and changing the location of the evaluation unit is not possible, the aspirating smoke detector can be integrated into a noise insulation housing.

With the noise insulation housing, a noise reduction of up to 18 / 19 dB (A) is achieved due to its design and the use of special noise insulation material.

3 Structure

The noise insulation housing is designed to accommodate an aspirating smoke detector ASD 532 or an aspirating smoke detector ASD 535. When using an aspirating smoke detector with a sampling pipe, the pre-assembled screw-junction pieces must be closed with a blind plug.



NOTICE

Unused screw-junction pieces must be closed with blind plugs to minimise noise development.

3.1 Aspirating smoke detector ASD 532

The sampling pipe is inserted into the noise insulation housing directly above the cable screw union M32. The noise insulation housing can be opened easily via the two door locks in order to carry out service work on the aspirating smoke detector.

The ventilator of the aspirating smoke detector ASD 532 generates a level of noise of 24.5 dB (A) at fan stage I. The noise insulation housing is lined with special noise insulating mats, and the vibrations from the aspirating smoke detector are absorbed by rubber buffers. A noise reduction of up to 18 dB (A) is thereby achieved.

Noise insulation housing for ASD 532:

- Noise reduction of up to 19 dB (A) (fan stage II)
- Housing, designed for the integration of an aspirating smoke detector
- Use of special noise reduction material
- Subsequent installation possible at any time
- Includes cable screw unions 3x M20 and 3x M32
- Degree of protection IP 54

3.2 Aspirating smoke detector ASD 535

The sampling pipe is inserted into the noise insulation housing directly above the cable screw union M32. The noise insulation housing can be opened easily via the two door locks in order to carry out service work on the aspirating smoke detector.

The ventilator of the aspirating smoke detector ASD 535 generates a level of noise of 32 dB (A) at fan stage I. The noise insulation housing is lined with special noise insulating mats, and the vibrations from the aspirating smoke detector are absorbed by rubber buffers. A noise reduction of up to 19 dB (A) is thereby achieved.

Noise insulation housing for ASD 535:

- Noise reduction of up to 21 dB (A) (fan stage III)
- Housing, designed for the integration of an aspirating smoke detector
- Use of special noise reduction material
- Subsequent installation possible at any time
- Includes cable screw unions 3x M20 and 3x M32
- Degree of protection IP 54

3.3 Scope of delivery

- Incl. 2x air return, d=25 (ASD 532 / ASD 535)
- Incl. 3x screw-junction pieces M32
- Incl. 3x screw-junction pieces M20
- Incl. 1x blind plug M32
- Incl. 1x blind plug M20
- Incl. 3x reducer for cable screw union M20
- Incl. 1x key for housing

4 Dimensioned drawing

4.1 Interior view

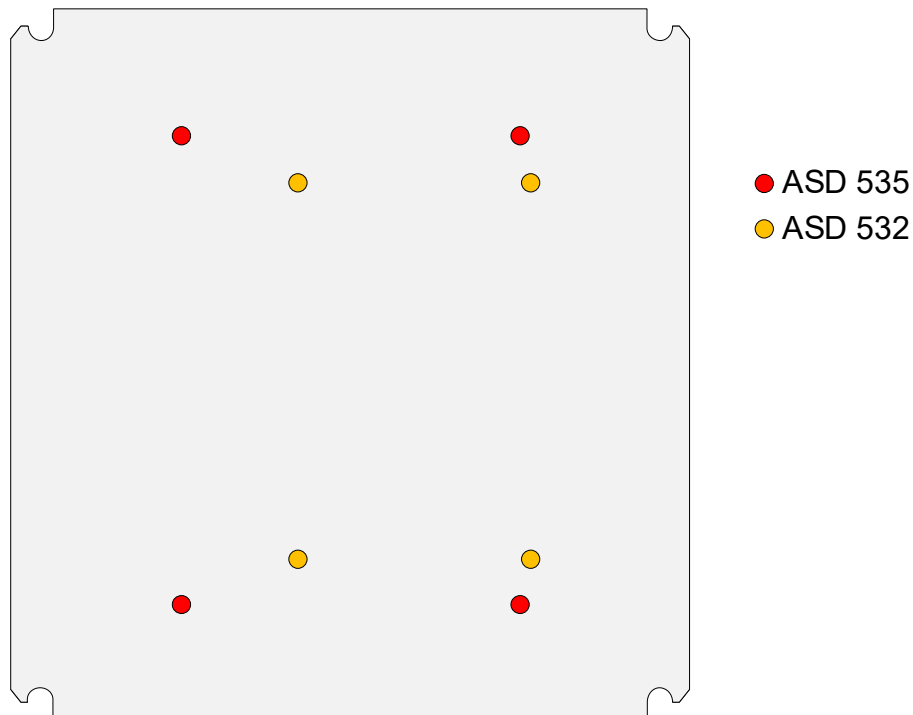


Fig. 1 Mounting plate for noise insulation housing NIH ASD

The noise insulation housing is designed to accommodate an aspirating smoke detector ASD 532 or an aspirating smoke detector ASD 535. For the aspirating smoke detector ASD 532, the pre-installed rubber buffers on the mounting plate must be re-located to the correct positions (see Fig. 1).

The wall mountings for installing the housing have already been pre-assembled. The diameter of the mounting holes is 8 mm. The necessary mounting material for the noise reduction housing (screws, dowels) is **not** included in the scope of delivery.

4.2 Drilling diagram

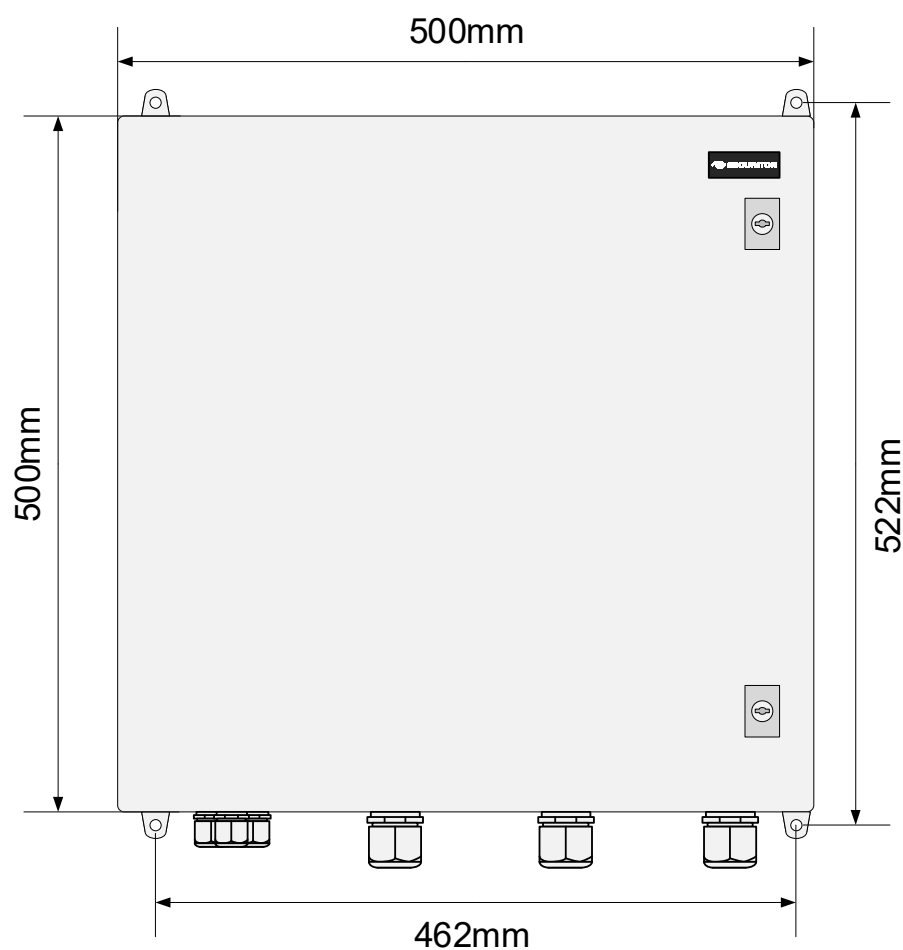


Fig. 2 Noise insulation housing NIH ASD for wall mounting

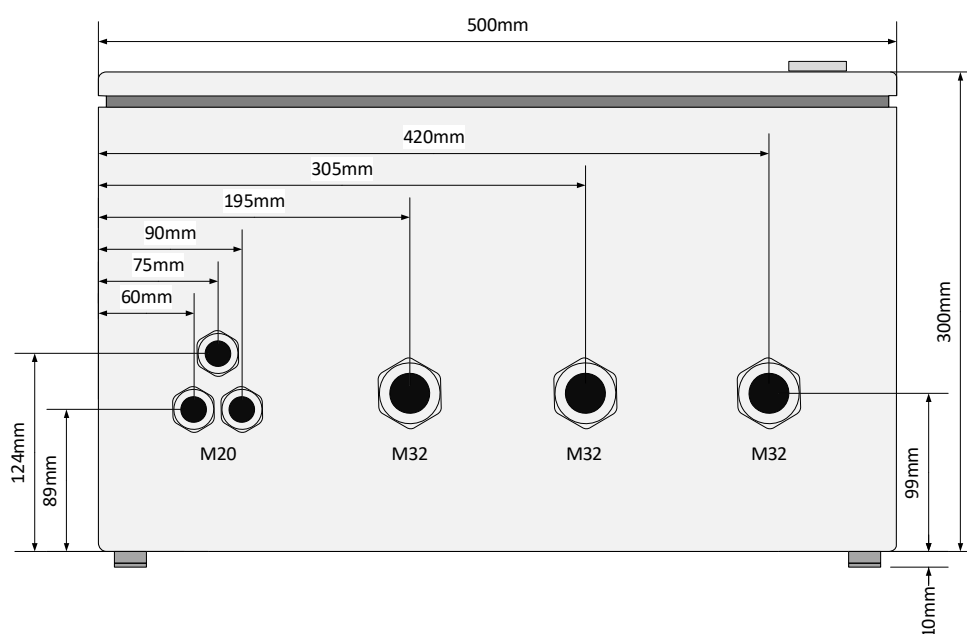


Fig. 3 Housing view of noise insulation housing NIH ASD

4.3 Integration of aspirating smoke detector ASD 532

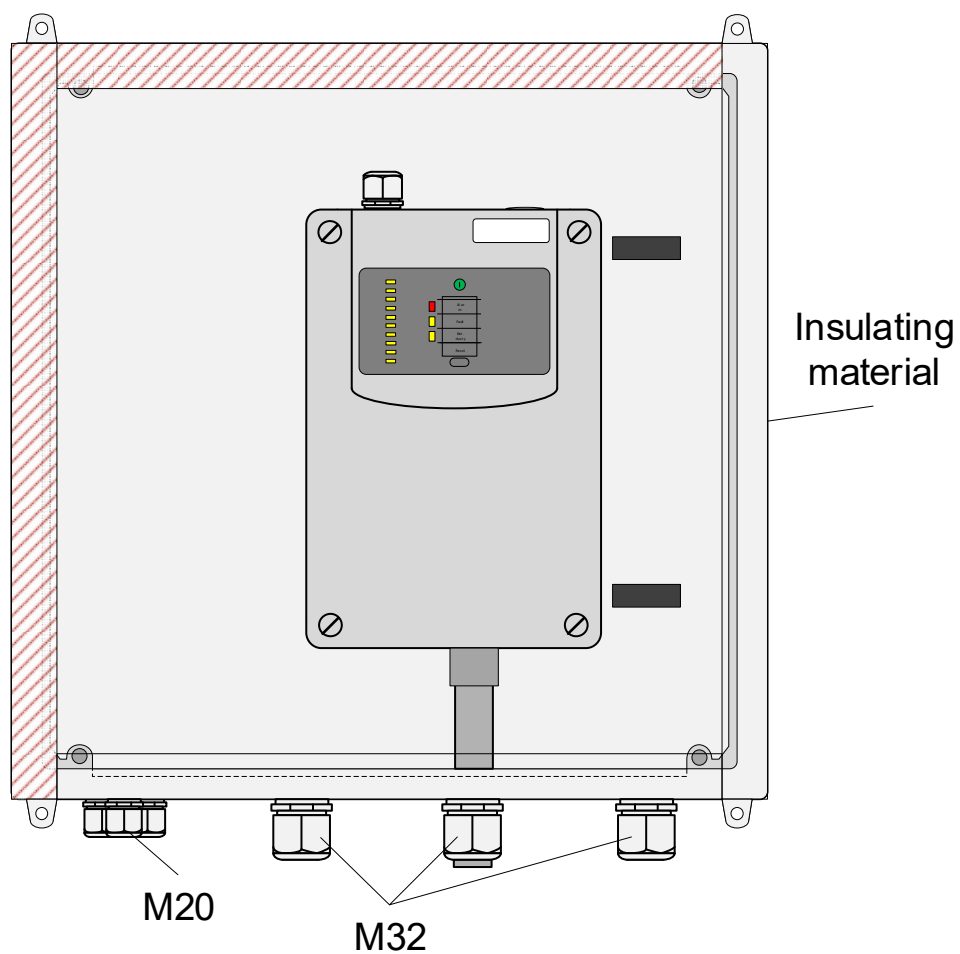


Fig. 4 Integration of aspirating smoke detector ASD 532

4.4 Integration of aspirating smoke detector ASD 535

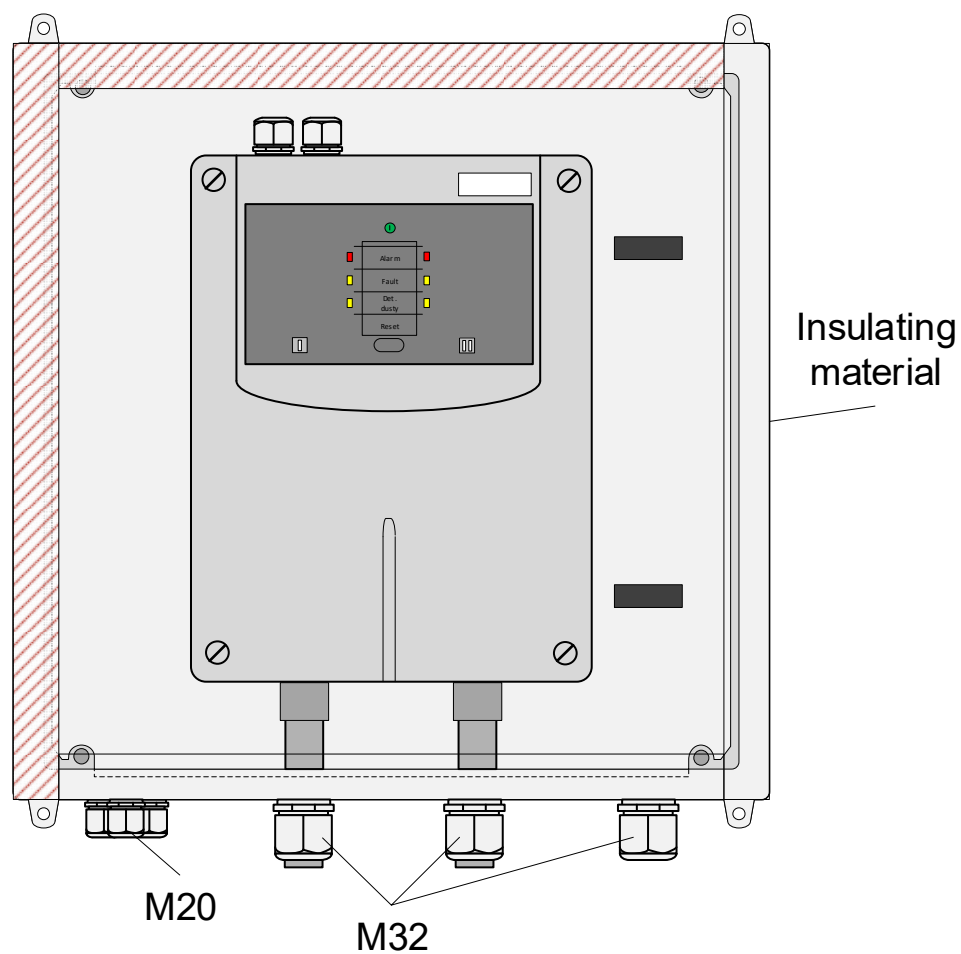


Fig. 5 Integration of aspirating smoke detector ASD 535

5 Assembly/Commissioning

The noise insulation housing NIH ASD should always be assembled upright with the cable screw unions pointing downwards. The sampling pipe is inserted into the housing via the cable screw union M32. **The air return pipe is required to route the aspirated air back into the environment and thereby prevent any overpressure building up inside the housing.** Assembly and arrangement should be carried out in accordance with the project planning notice.



NOTICE

The mounting of the air return pipe in the housing has already been prepared at the factory. The necessary air return pipes are supplied with the individual aspirating smoke detectors.

6 Mounting guidelines

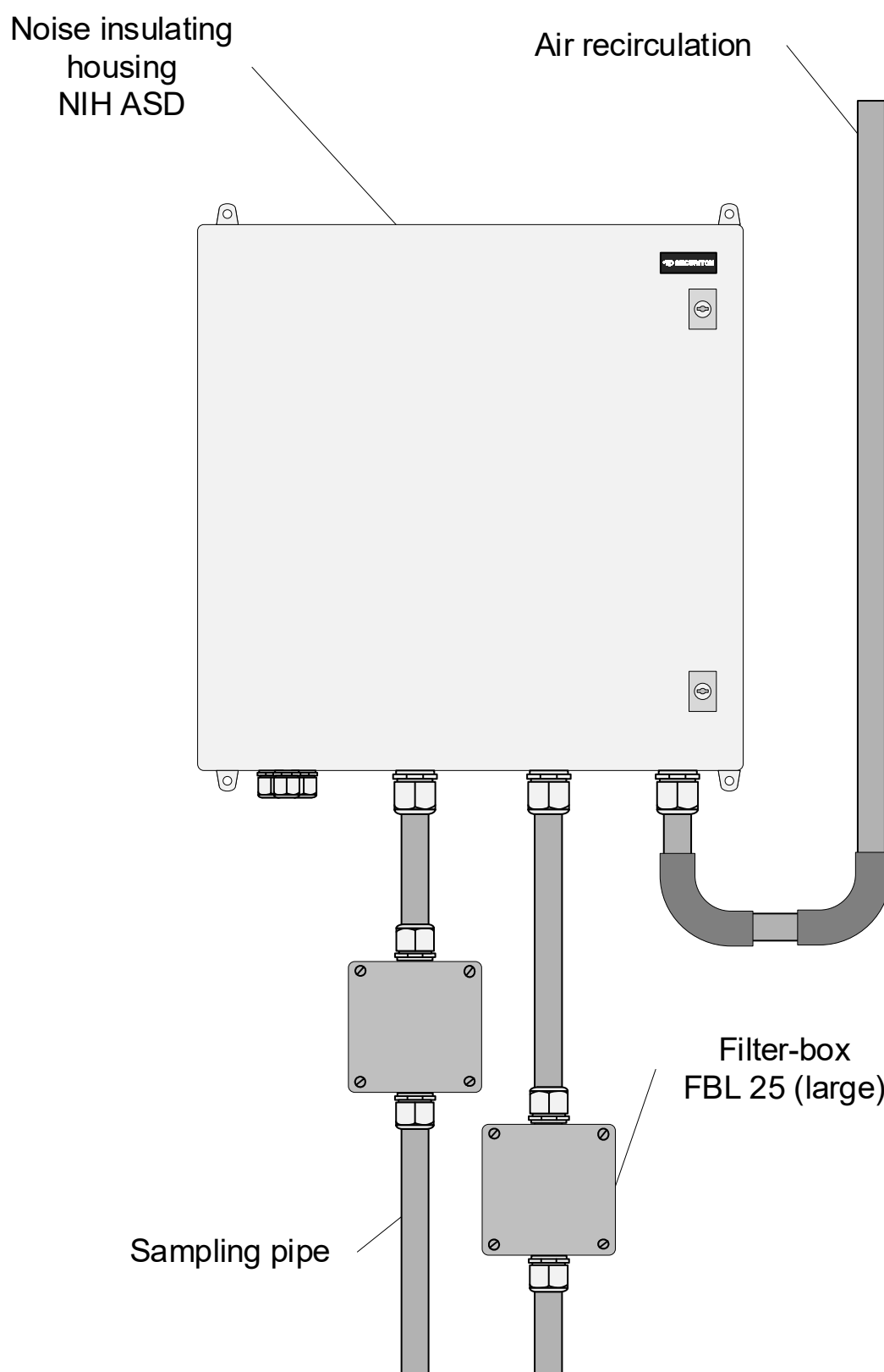


Fig. 6 Noise insulation housing NIH ASD with air return pipe

7 Servicing/Maintenance



NOTICE

Country-specific guidelines and standards apply to the maintenance work and servicing. Servicing of fire alarm systems must be carried out only by trained personnel and in accordance with the applicable safety regulations!

Furthermore, the technical documentation of the relevant aspirating smoke detector(s) must be observed.

8 Part numbers

Abbreviated designation		Type No. SECURITON
Aspirating smoke detector SecuriRAS ASD 535-1	ASD 535-1	11-2000015-01-xx
Aspirating smoke detector SecuriRAS ASD 535-2	ASD 535-2	11-2000016-01-xx
Aspirating smoke detector SecuriRAS ASD 535-3	ASD 535-3	11-2000017-01-xx
Aspirating smoke detector SecuriRAS ASD 535-4	ASD 535-4	11-2000018-01-xx
Smoke sensor SSD 535-1	SSD 535-1	11-2000008-01-xx
Smoke sensor SSD 535-1-CP	SSD 535-1-CP	11-2000011-01-xx
Smoke sensor SSD 535-2	SSD 535-2	11-2000009-01-xx
Smoke sensor SSD 535-2-CP	SSD 535-2-CP	11-2000012-01-xx
Smoke sensor SSD 535-3	SSD 535-3	11-2000010-01-xx
Smoke sensor SSD 535-3-CP	SSD 535-3-CP	11-2000013-01-xx
Aspirating smoke detector SecuriRAS ASD 532	ASD 532	11-2000003-01-xx
Smoke sensor SSD 532-1	SSD 532-1	11-2000004-01-xx
Smoke sensor SSD 532-2	SSD 532-2	11-2000004-02-xx
Smoke sensor SSD 535-2	SSD 532-3	11-2000004-03-xx
Filter box FBL 25 (large)	FBL 25	50-0500044-03-xx
Spare filter mat block for filter box FBL 25	FBL 25 Filter mat	50-0500410-01-xx
Filter box FBX 25 (extra-large)	FBX 25	50-0500184-01-xx
Spare filter mat block for filter box FBX 25	FBX 25 Filter mat	50-0500530-01-xx
3-way ball cock MV 25 PVC	MV 25 PVC	50-0500175-01-xx
3-way ball cock with safety lever MV 25 PVC (SH)	MV 25 PVC (SH)	11-2300081-01-xx
Three-way ball valve MV 25 ABS	MV 25 ABS	50-0500174-01-xx
3-way ball cock with safety lever MV 25 ABS (SH)	MV 25 ABS (SH)	50-0500174-02-xx
Noise insulation housing NIH ASD	NIH ASD	50-0500073-01-xx

9 Technical data

Characteristics		
Sound pressure level SecuriRAS® ASD 532 (fan stage II)	19	dB (A)
Sound pressure level SecuriRAS® ASD 535 (fan stage III)	21	dB (A)
Degree of protection	54	IP
Introduction	Screw-junction pieces 3 x M32 and 3 x M20	
Housing material	Steel sheet	
Housing colour	light grey 7035	RAL
Door stop	1-door, 130°, hinge left	
Dimensions (HxWxD)	500 x 500 x 300	mm
Weight (without aspirating smoke detector)	approx. 21.4	kg
Approval (not relevant for approval!)		

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