



# **GEOVENT**

## INSTRUCTION MANUAL



# **ASA-HV50**

Extraction arm for high vacuum



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## 1.0 Introduction

This manual is made and designed in order to facilitate the best and most secure interaction with the product. The manual is relevant for people involved in transportation, stocking, installation, using, maintaining and all other thinkable interaction with the product.

The manual must be read in full and understood before interacting with the product.

When the manual has been read and understood in full, the table of contents can be used to find the relevant information in each case.

The product is manufactured by:

Geovent A/S  
Hovedgaden 86  
DK-8861 Løgstrup  
DENMARK

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E-mail: salg@geovent.dk  
www.geovent.com

This manual is to be used for all interactions with the product including: Transportation, stocking, installation, operation and maintenance.

## 2.0 Safety

### 2.1 General safety

Carefully read this manual before use and observe the safety instructions in order to avoid injuries!  
Keep this manual in a safe place!

Secure that all users of the product have read this manual and that they follow the instructions as described. Observe all instructions marked on the product!

Observe the indications of the manufacturer.

Never use the product if you are in doubt about how it works or what you should do.

When doing maintenance follow the instructions in chapter 7.0.

Do not modify the product or use spare parts from other suppliers than Geovent, as this may hamper the product and the function.

### 2.2 Danger

You must wear safety gloves when handling or using the product to protect your hands from scratches etc.

Be aware that the product may tilt when you move it. You must handle the product with care and tie it safely to the truck or the fork lift when it is in transport.

When handling the product be sure that there is no risk for the installer, and secure that there are no people around the product, secure that the product cannot fall down risking to injure persons or subjects.

In case of an accident or a fire:  
Call for help.

The product is not to be used in areas categorised as ATEX zones, e.g. with dust from aluminium, flour, wood, and other mediums that present an explosion hazard.

If a repair is not possible you should dispose of the product. Please follow the instruction for disposal in chapter 10.0.

### 3.0 Field of application

The ASA-3 Arm is the ideal Extraction Arm for the extraction of welding smoke, grinding dust, fumes, etc., where the well-being of the operator is in focus with regard to lightness, ergonomics and efficiency of the Arm.

The Extraction Arm is not suitable for the extraction of aluminium dust, flour, textile dust nor sawdust or other media, which are connected with danger of explosion, without specific approval from Geovent A/S.

The hose may be damaged and leaky via outer loads, e.g. by a screw driver. Avoid such load in order to safeguard a long life.

Art. No.	Description
74-480	ASA-HV50 Arm for High Vacuum 2 m. ø50
74-481	ASA-HV50 Arm for High Vacuum 3 m. ø50
74-482	ASA-HV50 Arm for High Vacuum 4 m. ø50
74-483	Mini-HV50 Arm for High Vacuum 1 m. ø50
74-484	Mini-HV50 Arm for High Vacuum 1,5 m. ø50
74-485	Muffled HV hood with magnet

### 3.1 Handling

Always use gloves when you are handling this product. Always lift the arm in the aluminum arm during transport and assembly.

Be aware that it is possible to trap your fingers between the gas spring and aluminum arm.

A mounted arm is operated exclusively by the hood.

### 3.2 Technical data

#### Recommended flow area

Hose dimension:	Volume of air:
Ø50	100-200 m³/h

Length:	1, 1½, 2, 3 or 4 m
By means of an extension arm up to:	8 m

Hose max. temp:	Up to 60°C
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HV50 Hood. Insulated for noise reduction.

### 4.0 Transport, handling and storage

During transport in a truck or in another means of transportation the product must be securely packed in a box or a pallet and covered with a water proof material.

The product must be securely stowed in the truck so that it will neither tilt nor shift during transport.

During transport over a short distance e.g. in a stock or a factory, the product can be moved by means of a forklift or a stabeler.

When moved it must be secured that the product does not tilt or shift. And it must be secured that the limitations of the means of transportation is not exceeded.

Secure that there are no people around the product, when the product is moved.

The product must be placed in a dry place and covered securely, in order to secure that moist, metal parts or other substances do not damage the product.

It is not allowed to place anything on top of the product.

### 5.0 Construction

**Wall bracket:** Steel bracket, powder enamelled yellow in RAL 1007. The rotary joints can rotate 270°.

**Funnel:** Light-weight aluminium funnel. The funnel is powder enamelled in RAL 1007. May be rotated in all possible positions.

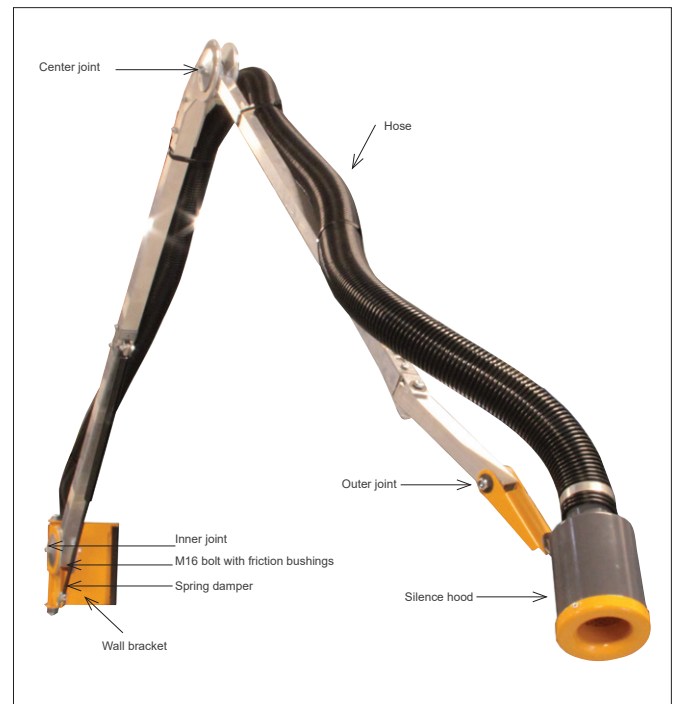
**Arms and friction joint:** 25x25 mm aluminium pipe, connected via knee joints with friction discs and disc springs. The inner reinforced arm is executed in 30x30 mm electro galvanised steel pipe and supplied with a gas damper.

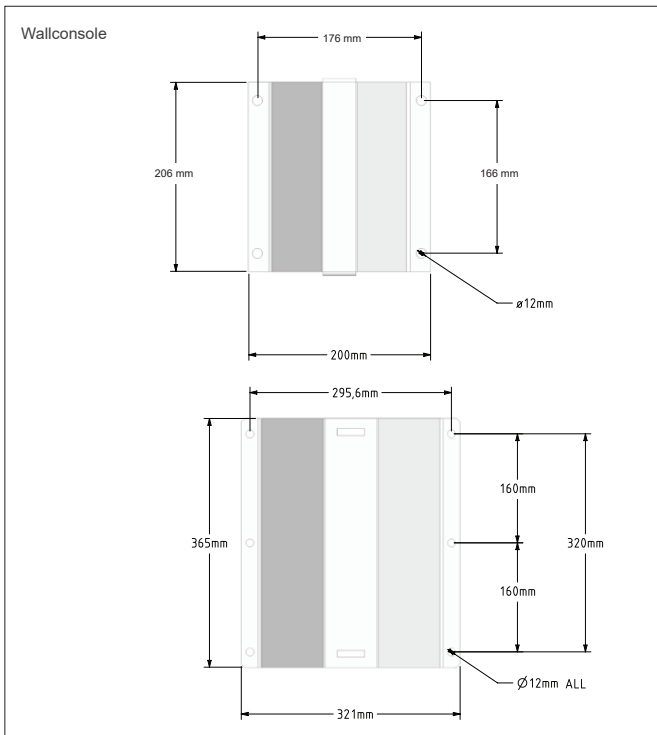
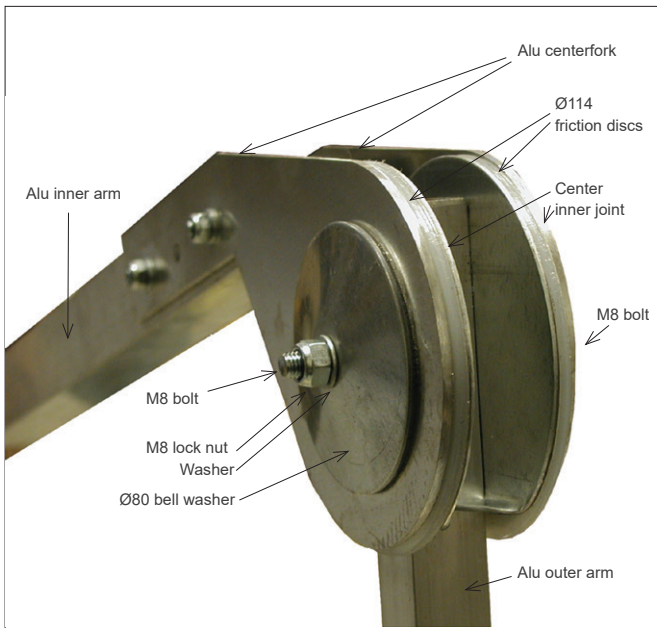
**Hose and pipes:** Ethyl-vinyl-acetyl (EVA) hose. Mack of extruded EVA material. Inside and outside wavy. Is self-supporting, so a spiral is unnecessary.

#### 5.1 Installation

The ASA-3 Arm is supplied partly assembled. Depending on model, it may consist of 1 partly assembled carrying arm, 1 funnel and 1 set of hose with clamp. The centre part of the carrying arm is to be turned around and fastened with two 13 mm fixed spanners.

Before mounting the Arm, please make sure that the optimum working area is selected. Is there space enough for the satisfactory utilisation of the Arm? What about connection possibilities for piping and automatics? The optimum installation height is then to be selected in accordance with the table below:





**Recommended installation height HV50 arm: 2500 mm**

#### Procedure:

1. The wall bracket is firmly attached to the wall by means of 4 off 10 mm bolts. (When using the extension arm, please fix this bracket first – refer to item 2.1)
2. Mount the Arm on the wall bracket with the M16 bolt and friction discs. Make sure to fasten it in such way that the Arm is easily rotated. If the inner joint/arm hasn't the wanted friction, the bell washer can be loosen or tighten, or by adjusting the spring retainer (against the wall to tighten – away from the wall to loosen).

3. Center wrist checked and tightened if needed. Tighten the joint so that the arm moves freely, but also so fast that it can sustain itself in a slightly bent position.
4. Mount the funnel on the outer joint by taking the supplied M8 bolt through 3 disc springs, the alu half, the friction disc, the other alu half and the 3 disc springs and fasten them with an M8 lock nut.
5. The hose is mounted on the funnel by tightening the clamp around the funnel and the hose. Now pull out the hose to max. so that the least possible resistance is left in the hose and fasten with the enclosed plastic binders. Subsequently, the hose is mounted on the branch pipe by means of the clamp.

## 5.2 Mounting of optional equipment

### Mounting of extension arm

The extension arm for HV50 is available in 1.0 m, 2.5 m and 4.0 m. (4,0 m available in both 1 and 2 line arm).

#### 1 m extension

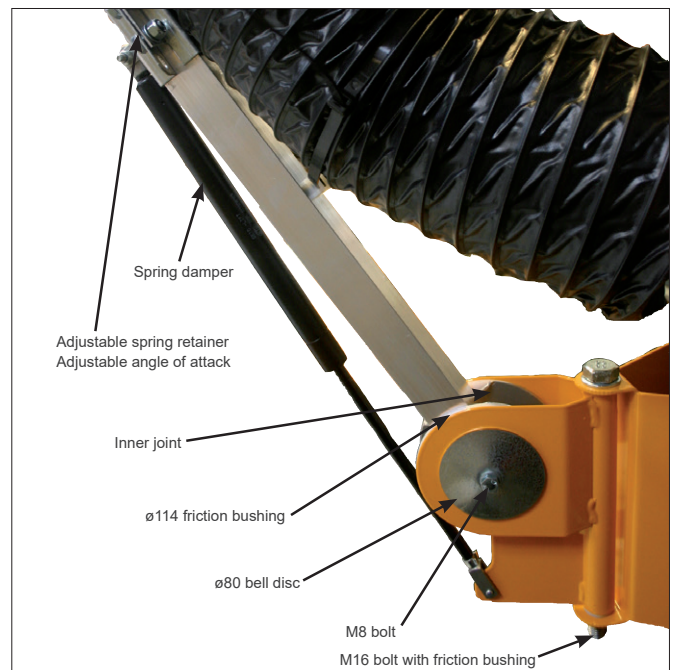
Fixing the extension arm to a solid wall, in the same way as the wall bracket in the section. 2.0. Then fastened HV50 arm to the extension arm.

#### 2.5 and 4.0 m extension

Attach the wall bracket. Then install the extension arm

At 4.0 meters 2-leds mounted inner part, then mid link and eventually outer loops. Ensure that the outer part is positioned properly during assembly - tube holders must face up.

Then attach the ducts to the extension arm with the self-carving screws. The distance between the duct assembled using a Clamp and the hose. The arm is then fastened to the extension arm.



### 5.3 Trial run – exact adjustment

After the final mounting, the Arm should be adjusted to the typical working area, for optimum utilisation of the Arm. Do so by adjusting the rotary joints mentioned in item 2 by means of 2 off 13 mm fixed spanners.

### 6.0 User instruction – application

Operated by the hood. Do not use the arm or hose. Be especially aware that it is possible to squeeze your fingers at the gas spring. Move the hood to the wanted position and wait for the friction discs to locked the arm.

In normal use, the arm can lift it self in the wanted position. The arm can rotary 270° in the working space.

The hose can be damaged and leaky by not using it right, for example a screwdriver. This should be avoided to ensure a long life span.

Always check that the correct volume of air is extracted by the suction head/funnel.

The Arm does not work if ...

- unauthorised parts have been mounted on the Arm (e.g. power point on the funnel)
- the Arm is pushed towards the required position. Instead, please move the Arm to the required position and wait a moment until the friction discs have locked the Arm. If this does not work, please tighten the loose joint with two 13 mm fixed spanners.
- something has been hung on the extension arm. It is only meant to be capable of carrying the weight of the actual Arm.

### 7.0 Dismantling, disabling and scrapping

Deactive the product by disconnection the electrical mains. Dismantle compressed air pipes and other pipes or wires etc.

Dismantle the filter cartridge by unscrewing the finger screws and remove the service hatch.

Turn the filter cartridge so that is loosens from the latches at the top of the cartridge.

Carefully remove the contaminated filter cartridge, place it in a plastic bag and seal the bag.

Dispose of it according to local regulations.

The inside of the product must be cleaned by means of a vacuum cleaner with a filter which suits the purpose.

The inside of the product must be cleaned by means of a vacuum cleaner with a filter which suits the purpose.

Dismantle plastic parts and dispose of it according to local regulations.

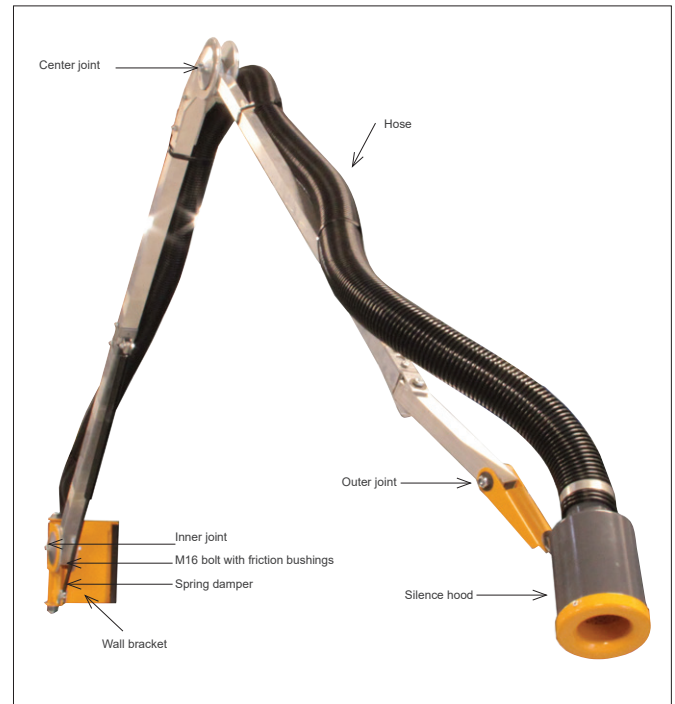
Dismantle the metallic parts by unscrewing screws and bolts. Afterwards cut the larger pieces into smaller pieces and dispose of it according to local regulation.

Dismantle plastic parts and dispose of it according to local regulations.

The packing material must be sorted according to local regulation in order to be able to reuse the material.

### 8.0 Dimensions

ASA-HV50







## 9.0 Liability

### Warranty

Geovent A/S grants a warranty for products, which are defective, when it can be proved that the defects are due to poor manufacture or materials on the part of Geovent. The warranty comprises remedial action (reparation or exchange) until one year after the date of shipment.

No claims can be made against Geovent A/S in relation to loss of earnings or consequential loss as a result of defects on products from Geovent.

Wear on parts such as filter cartridges and hose is not included in the warranty.

### User liability

In order for Geovent to be capable of granting the declared warranty, the user/fitter must follow this instruction manual in all respects.

Under no circumstances may the products be changed in any way, without prior written agreement with Geovent A/S.

Please refer to the current sales and delivery conditions at [www.geovent.com](http://www.geovent.com)

## 10.0 Declaration of conformity

The manufacturer: GEOVENT A/S  
HOVEDGADEN 86  
DK-8831 LØGSTRUP

Hereby declares that:

The product: Extraction Arms  
Model: ASA-HV50

Complies with the relevant parts of the following directives and standards:

Directive 2006/42 / EC of the European Parliament and of the Council of 17 May 2006 on machines and amending directives 95/16 / EC.


This declaration is no more valid if changes are made to the product by others than the manufacturer.

Authorized to collect the technical file:

Lise Cramer

Date: 29.11.2022

Position: Director  
Name: Thomas Molsen

Signature: 





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