



GEOVENT

INSTRUCTION MANUAL



FLEXI ARM

Extraction Arms $\varnothing 100$ and $\varnothing 125$ mm

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1.0 General safety precautions

IMPORTANT – Please study all the instructions before mounting and commissioning.

Please keep these instructions in a safe place and instruct all users in the function and operation of the product.

Do not dismantle any factory-mounted parts, since it impedes the commissioning of the equipment.

All electrical installations must be carried out by an authorised electrician.

1.1 Danger

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

1.2 Field of application

The GEOVENT FLEXI Arm is the ideal Extraction Arm for the extraction of fumes and Vapours 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.

1.3 Technical data

Modeller:

- Art. No. 01-430: FLEXI arm \varnothing 100 L=700 mm.
- Art. No. 01-431: FLEXI arm \varnothing 100 L=1000 mm.
- Art. No. 01-432: FLEXI arm \varnothing 100 L=1500 mm.

NB: Without console and hood

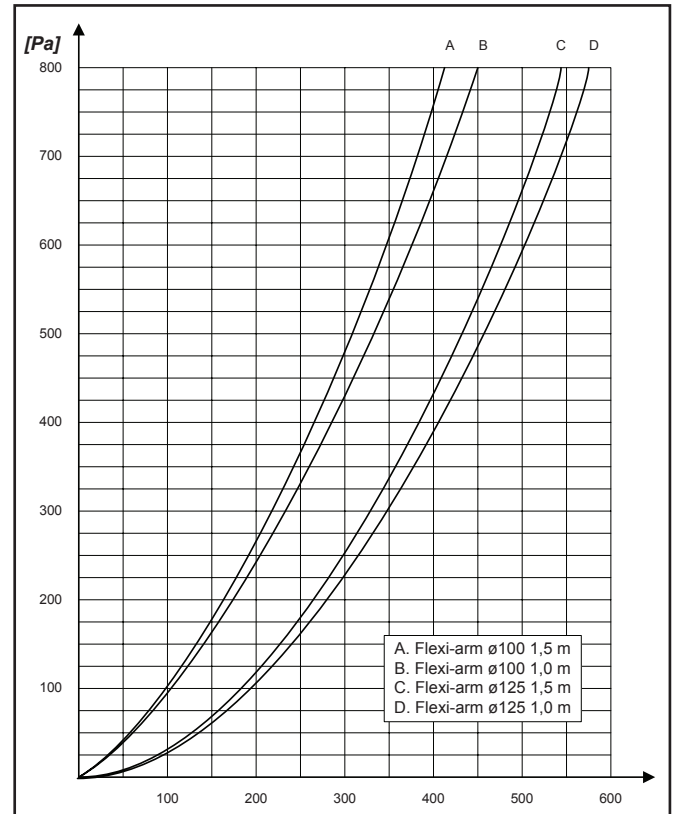
- Art. No. 01-450: FLEXI arm \varnothing 125 L=700 mm.
 - Art. No. 01-451: FLEXI arm \varnothing 125 L=1000 mm.
 - Art. No. 01-452: FLEXI arm \varnothing 125 L=1500 mm.
- NB: Without console and hood

- Art. No. 01-455: Standard hood FLEXI \varnothing 100 mm
- Art. No. 01-456: Standard hood FLEXI \varnothing 125 mm

Recommended flow area

Hose dimension: Volume of air:	
\varnothing 100	300-450 m ³ /h
\varnothing 125	450-800 m ³ /h
Length:	1 or 1,5 m
By means of an ceiling arm up to:	3,5 m
Vha. udlægger op til:	3 meter
Hose max. temp. (depends on the type)	Up to 140°C
Can be supplied with other hose types.	

Pressure drops:



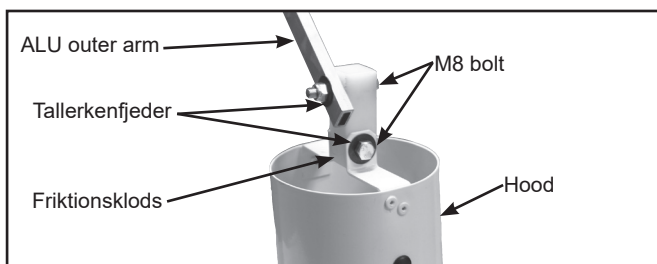
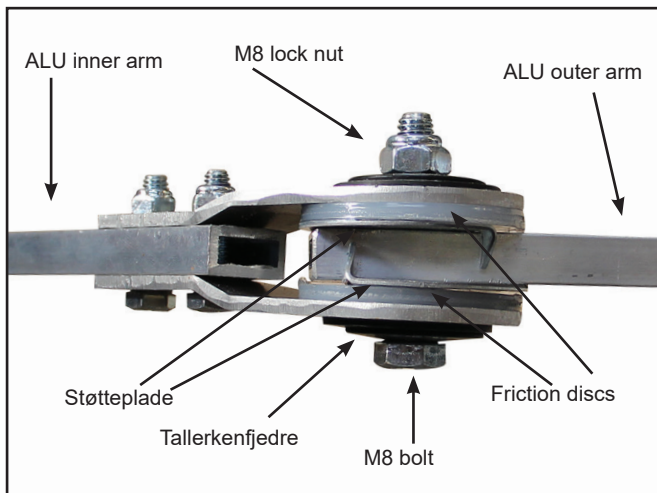
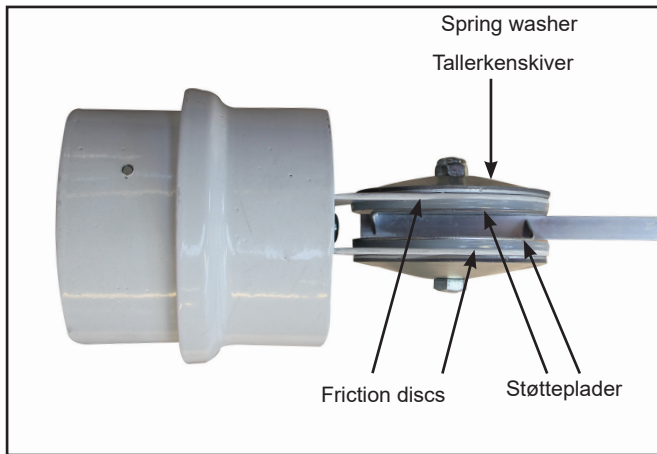
1.4 Construction

Wall/ceiling bracket: Steel bracket, powder enamelled yellow in RAL 9016. The rotary joints can rotate 360°.

Funnel: Light-weight aluminium funnel $\varnothing 100$ and $\varnothing 125$. The funnel is powder enamelled in RAL 1016. May be rotated in all possible positions.

Arms and friction joint: aluminium pipe, connected via knee joints with friction discs and disc springs.

Hose: White PVC Hose with Steel Spiral and Aluminum Inlay (Geoflex Standard).



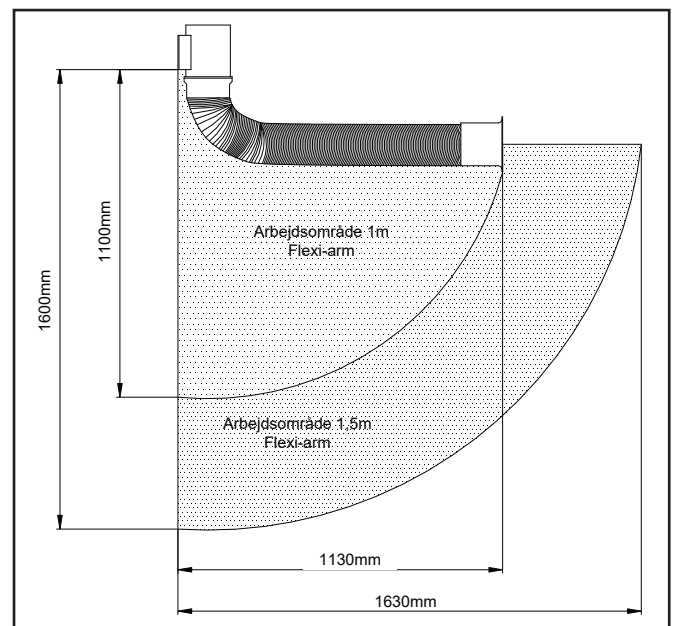
2.0 Installation

The FLEXI arm is delivered together and consists of 1 carrying arm, 1 funnel and 1 set of hose with straps. Specification of any Changes can be found in order confirmation / invoice.

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:

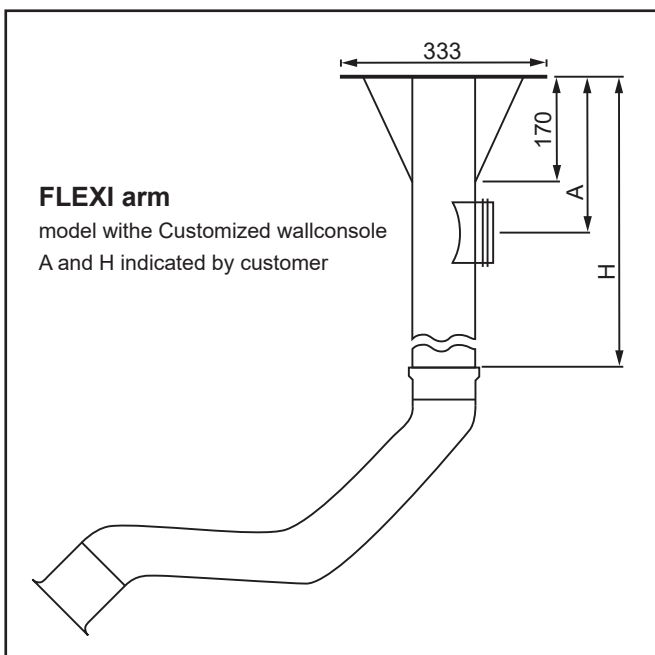
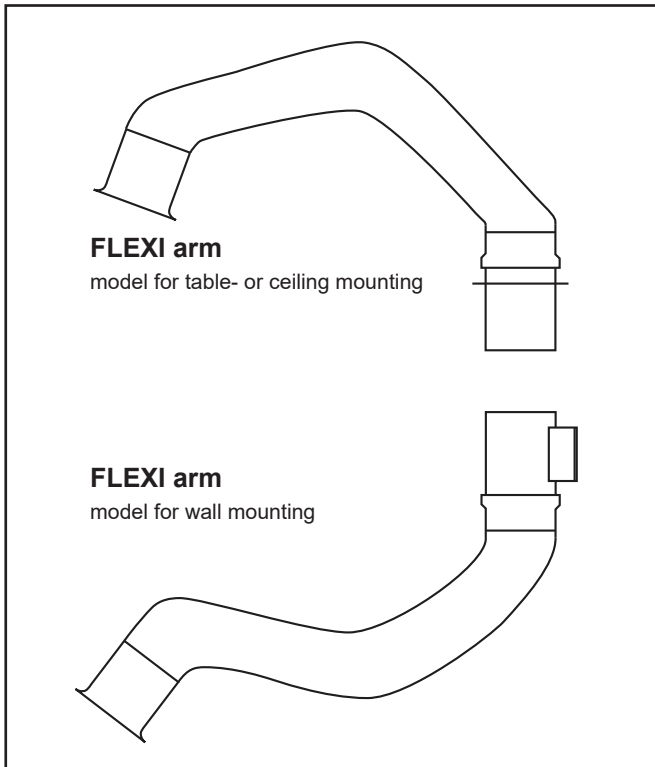
Working area FLEXI arm:



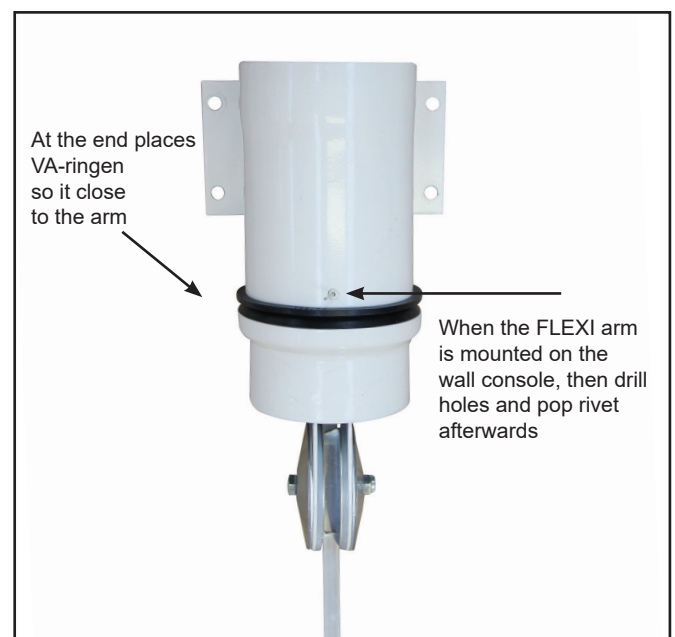
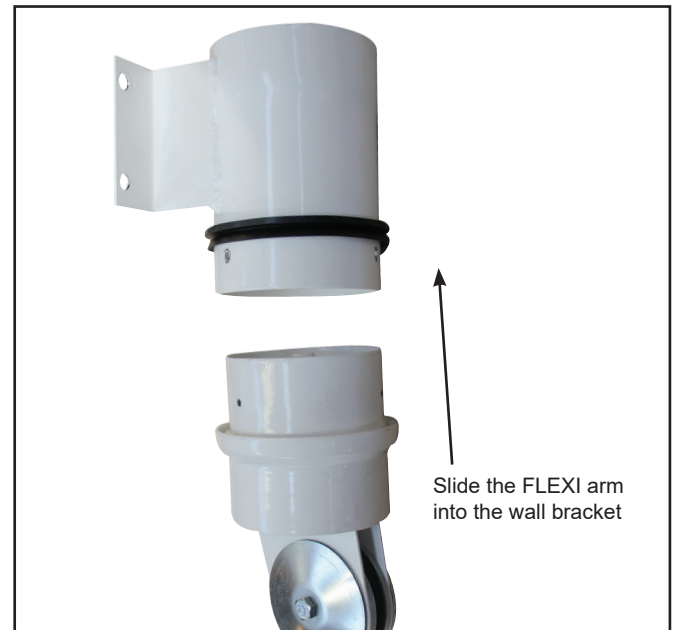
Procedure:

1. At table/ceiling mounting, fasten the console to the table/ceiling. The wall bracket is firmly attached to the wall, ceiling or table by means of 4 off 10 mm bolts. Customized ceiling brackets attach to the ceiling.

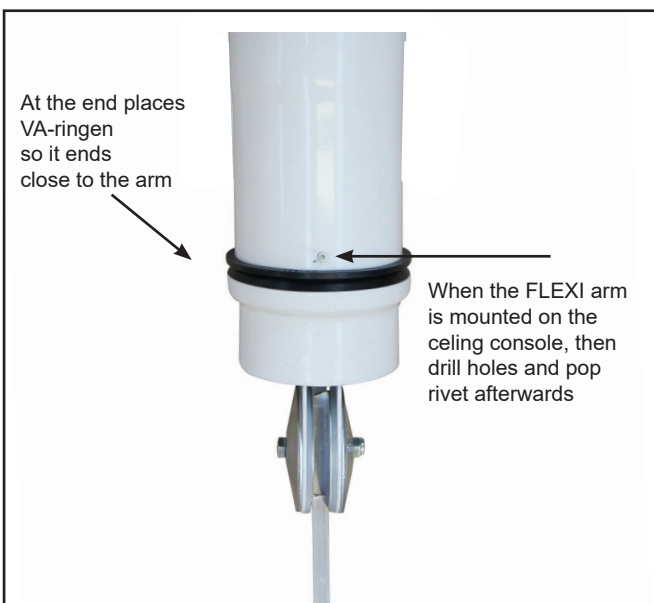
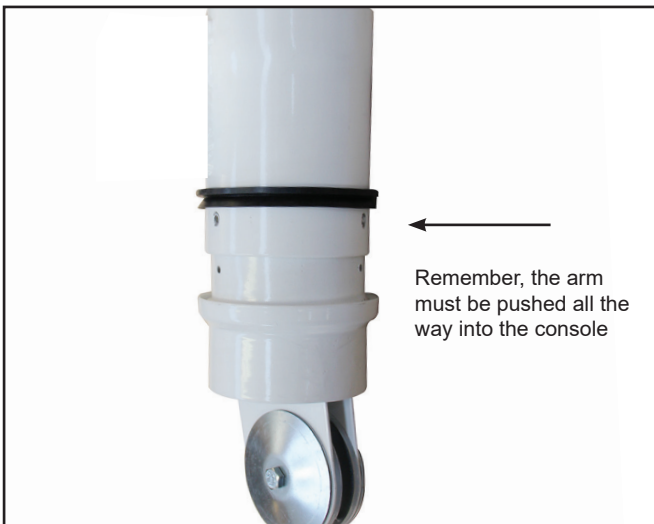
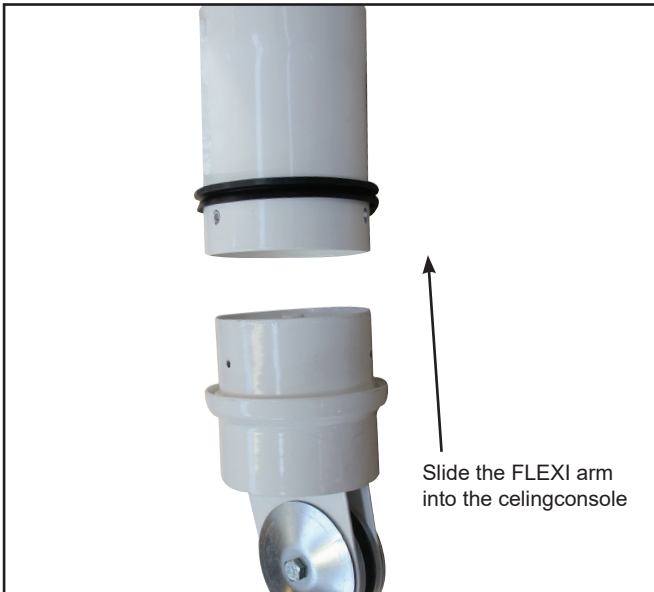
The different types are shown in the figure below.



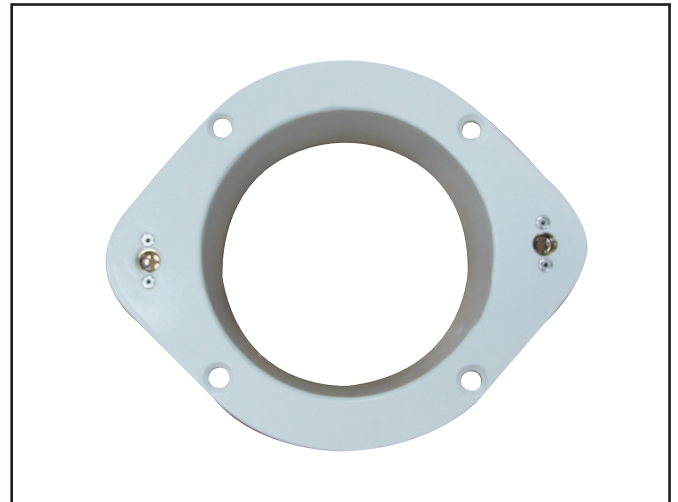
Mount the flexi arm at the wall console



Mount the flexi arm at the ceiling console



Flexi arm mount on front

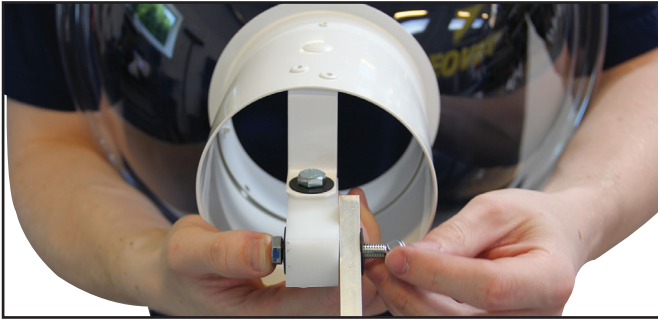


Mount the wall console to the cabinet

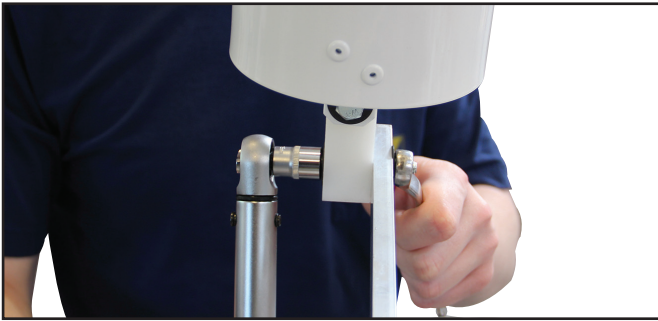


Mount the arm in the wall console

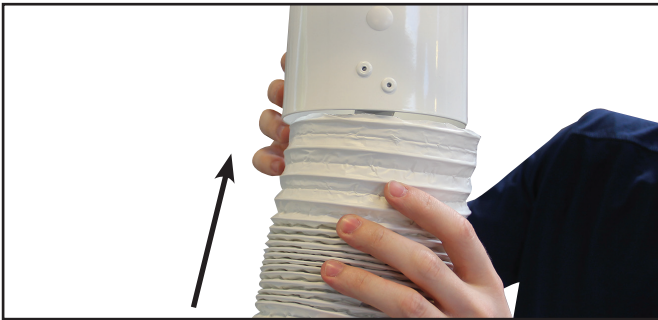
Mounting a hood



Mount the hood on the arm with the supplied bolt and washer



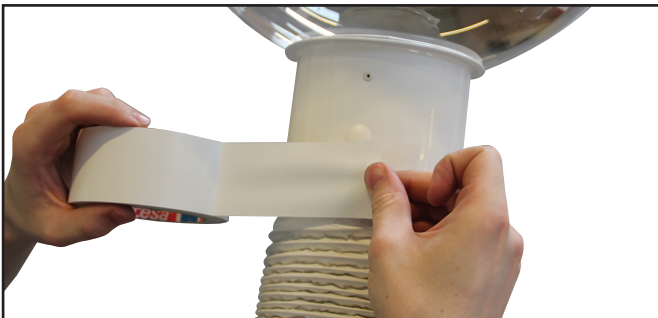
Tighten - 3Nm



Put the hose on



Tighten the clamp



Mount the tape around the finish between the hose and hood, it must cover the clamp

2.1 Mounting of optional equipment

Hood special

Can be ordered specially upon request:

PolyCarbonate hood:

ø500 mm

ø385 mm

ø280 mm



Hood:

265x168 mm

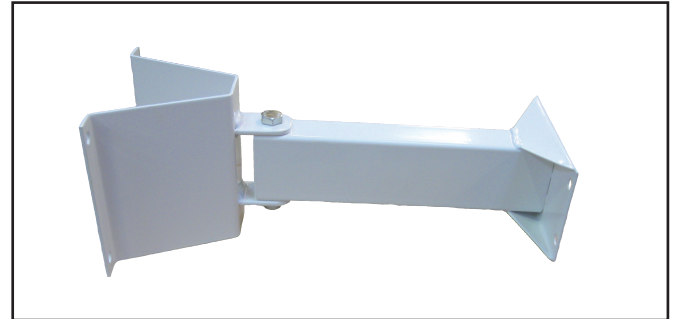


Hood:

245x335 mm



Mounting an Extension arm (0,5 or 1,5 m)



First attach the extraction arm to the wall, such as a concrete wall, similar to the wall bracket in section. 2.0. Then attach the wall bracket to the extraction arm.

Mounting of the damper

Is factory-mounted. Contact your dealer.

Mounting of lys

The mounting of light and net should have been taken care of by the factory. The connection is made by extending the power cord, which is attached inside the Arm and it is to be fixed on the Arm. Next, the power cord is connected to the transformer (24V → 220V) which again is connected to the mains.

Light specifications:

Type:

Halogen

Power:

50 W 60°

Voltage:

12 V

Recommended trafo-power:

70 W

2.2 Power connection

For connection of various electrical components (e.g. light sensor), please refer to the enclosed documentation for the actual product.

The electrical installation is to be carried out by a certified electrician.

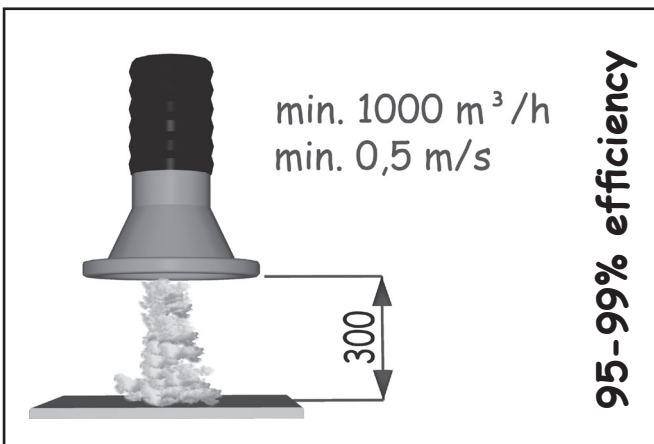
3.0 User instruction – application

Ved normalt brug skal armen kunne bære sig selv i den ønskede position indenfor arbejdsområdet. Armens konsol giver armen et 360° drejbart arbejdsområde.

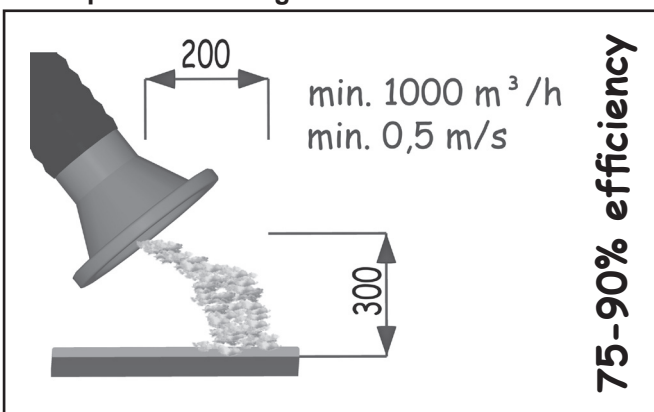
Slangen kan beskadiges og gøres utæt ved udvendig belastning, fra f.eks. en skruetrækker. Dette bør derfor undgås, for at sikre slangen længst mulig levetid.

Ved korrekt dimensioneret anlæg, bør armens tragt placeres 300-500 mm lodret over emnet hvorfra der skal udsuges. Dvs. lige over forureningskilden. Derved fanges op til 99% af de forurenede partikler.

Optimum welding situation:



Less optimum welding situation:



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.
- Something has been hung on the extension arm. It is only meant to be capable of carrying the weight of the actual Arm.

4.0 Maintenance

Periodic maintenance

- When it becomes difficult to position the Arm, e.g. if it will not remain in the required position, please adjust the movable joints (please refer to item 2).
- Please check the condition of the hose, the spring as well as the friction discs, and exchange them if necessary. Please contact your dealer in respect of spare parts.

At least once annually, the whole point extraction plant should be overhauled by an authorised serviceman.

5.0 Liability

Garanti

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 (repair or exchange) until one year after 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 parts like hoses, etc. are 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.

6.0 Declaration of conformity



GEOVENT

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(+45) 8664 2211 • salg@geovent.dk

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

hereby declares that:

The products: Extraction Arms
Model: FLEX arm (ø100 to ø125)

have been manufactured in compliance with the directions of the Directive Council of 14 June 1989 in common approximation to the legislation of the member states regarding machine safety (89/392/EEC amended by the directive 91/368/EEC) with special reference to appendix 1 in the Directive regarding basic health and safety requirements in connection with the construction and manufacturing of machinery.

Council Directive 2006/42/EC (May 17, 2006) of the European Parliament on machinery, and amending Directive 95/16/EC.

EN ISO 14121-1:2007 Safety of machinery -
Risk assessment - Part 1: Principles

EN ISO 12100-1:2005 Safety of machinery -
Basic concepts, general principles for design

EN ISO 12100-1:2009 Construction and design
Part 1: Terminology, methodology

EN ISO 12100-2:2005 Basic concepts, general principles for design

EN ISO 12100-2:2009 Construction and design
Part 2: Technical principles

Dato: 17/07-18

Position: Managing Director
Name: Thomas Molsen

Signature :

