



GEOVENT

INSTRUCTION MANUAL



CERA EXHAUST ARM

ø160 mm, 360° rotatable

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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

Tel.: (+45) 86 64 22 11
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.

Follow the instructions in chapter 7.0 when the product is maintained.

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.

In case of problems:

If a repair is not possible you should dispose of the product. Please follow the instruction for disposal in chapter 8.0.

3.0 Machine overview

3.1. Description

Geovent CERA arm provides a non-contact and efficient exhaust gas extraction.

The arm is mounted in a Channal Duct and can be moved across or along the workshop.

The arm can be rotated 360 degrees and adjusted in several joints so that it can be positioned precisely in relation to the exhaust pipe of the car.

When mounting the channel duct take into consideration that the arm must be able to reach the exhaust pipe of small cars.

See also Channal Duct data sheet for more options and details.

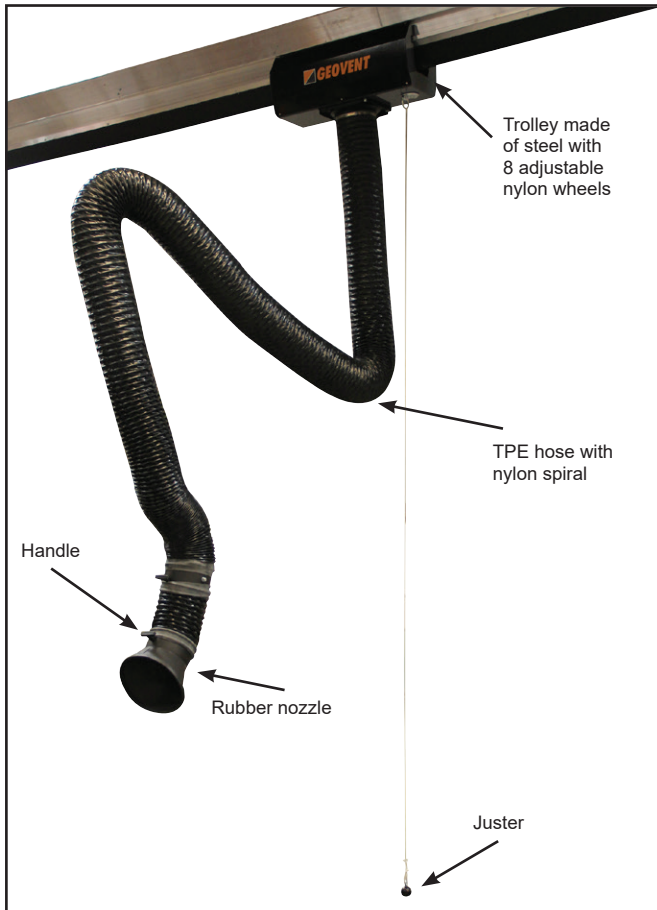
3.2 Intended use

Geovent CERA arm is used to extract exhaust fumes from cars when they are switched on indoors. It can e.g. be when the car is in a workshop.

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.

3.3 Machine specifications

3.3.1 Design

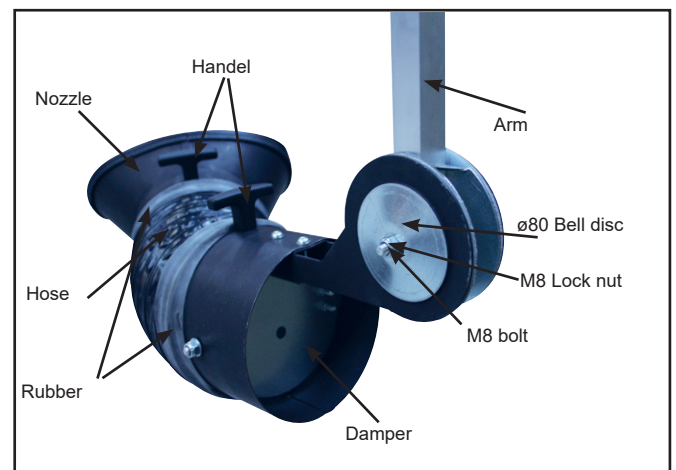
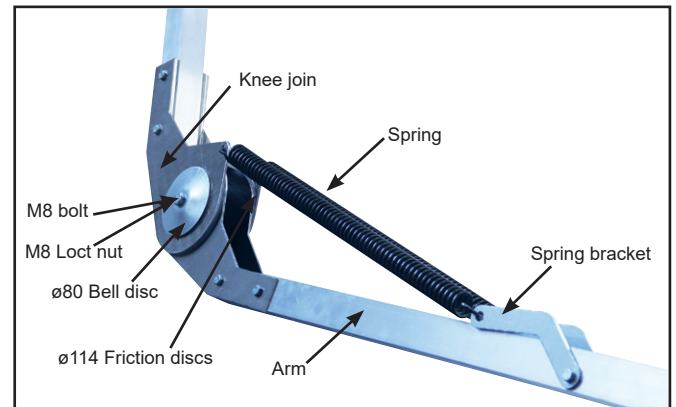
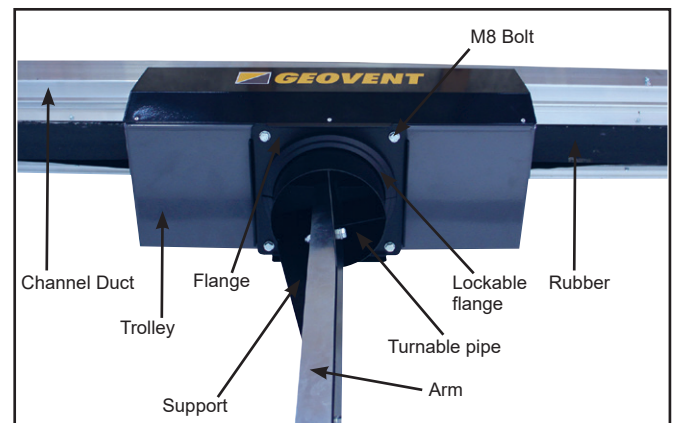


Trolley: Powder coated steel, complete with 8 light-weight nylon wheels.

Hose: TPE exhaust hose with nylon spiral. The hose may be run over to a certain extent. Temperature-resistant up to 150°C, briefly 170°C.

Nozzle: The nozzle is an integral part of the arm and is made of rubber. The nozzle should not touch the vehicle.

Arms and friction joint: The inner carrying arm is executed in a 30x30 mm aluminium profile, equipped with an adjustable fitting. The outer arm is a 25x25 mm aluminium pipe, which is connected via knee joints with friction discs, bell disc and centre internal part.



3.3.2 Technical data

Temperature - exhaust air	Max. 150°C
Temperature - surroundings	0 - 50°C

Recommended flow area

Hose dimension \varnothing 160 mm: 800-1000 m³/h

Length: 4 meter

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 proff 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.

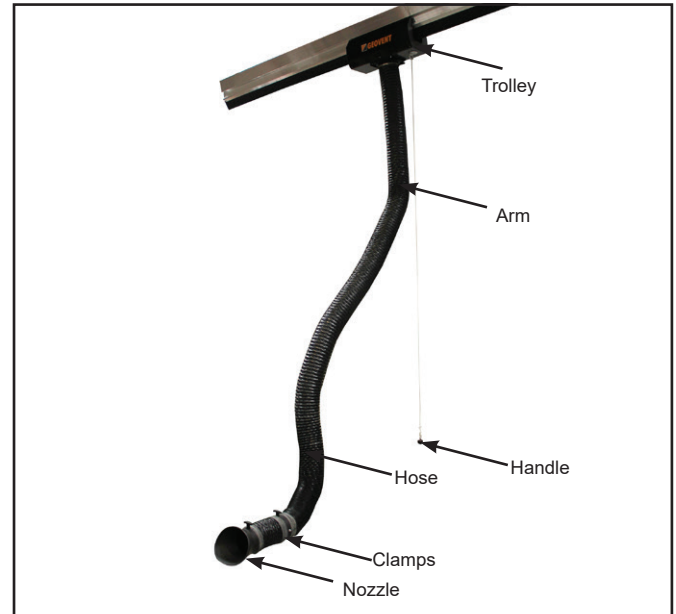
5.0 Assembly, installation and start of operation

5.1 Location

The product is to be mounted on a Geovent trolley and afterwards in a Geovent channel duct.

5.2 Installation

The CERA arm is delivered partly assembled, and consists of 1 pc. partially assembled arm, 1 pc. handle, 1 pc. nozzle and 1 set of hose with clamps. Specification of any adjustments appear from order confirmation / invoice.

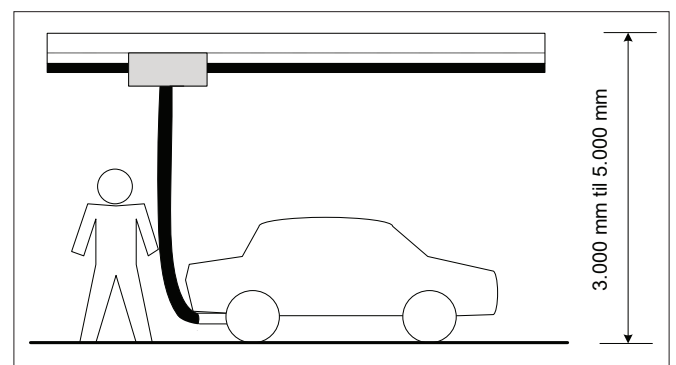


The following installation should only be carried out by a skilled fitter.

Before mounting, please consider the following:

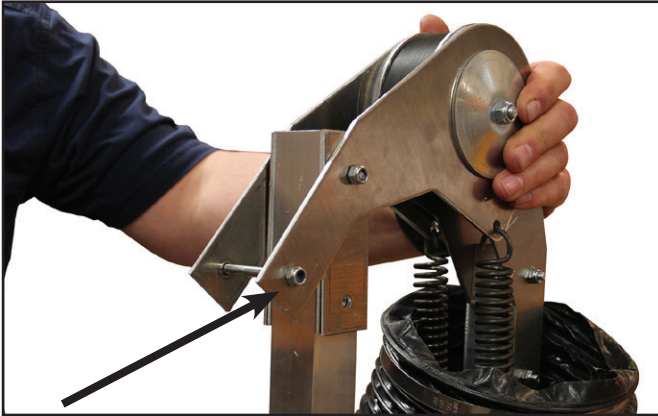
- Space requirements for the satisfactory installation and service of the Channel Duct System.
- Optimum connection possibilities for piping and automatics.

Recommended installation height
(Adjusted to the length of the Cera-arm)

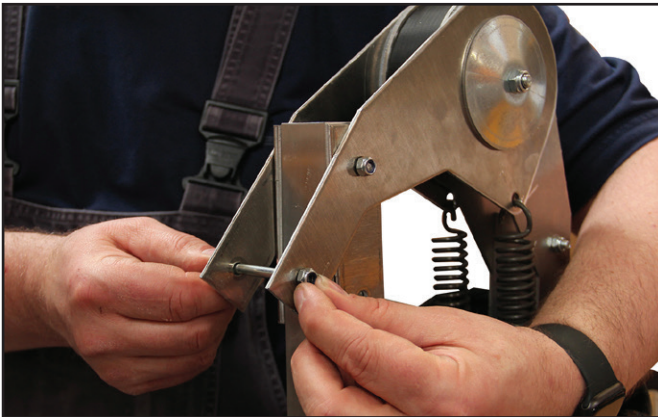


For installation of the channel duct: See the channel duct manual.

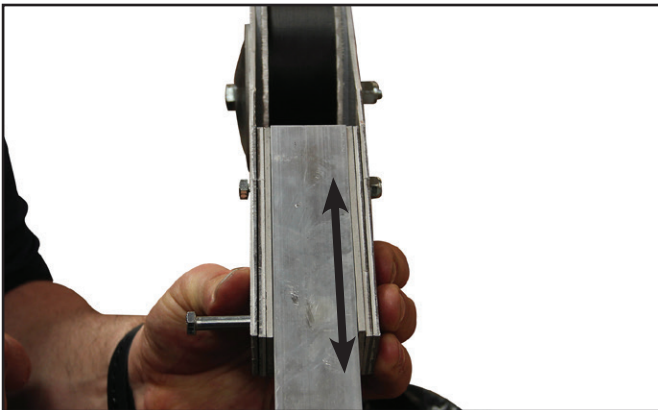
Procedure:



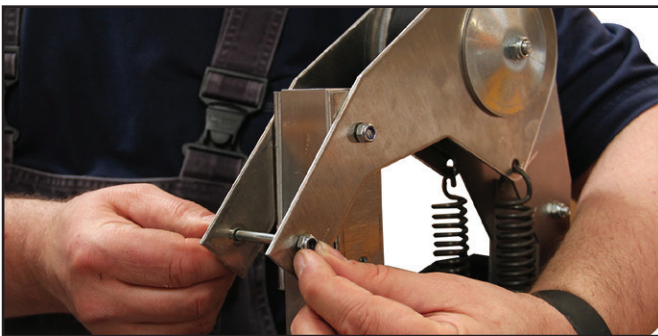
The aluminum profile of the arm must be loosened.



Loosen the M6 bolt with your fingers.



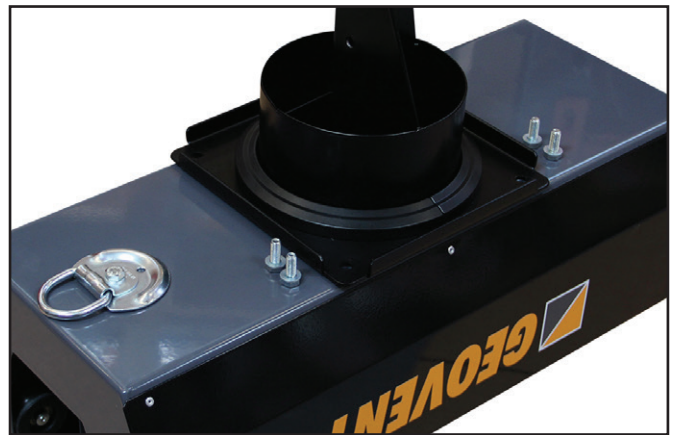
The M6 bolt is removed and the arm is held so that the the knee joint and arm are is flush. Then mount the bolt.



2 x M10 fork wrench is used to tighten the joint.



On the trolley there are 4 pcs. M8 x 20 bolts and discs must be removed, so that the flange of the CERA arm can be mounted.



Place the flange on the trolle.



Fix the flange with the 4 pcs. M8 x 20 bolts and friction discs. Then mount the trolley on the channel duct (See manual for channel duct)



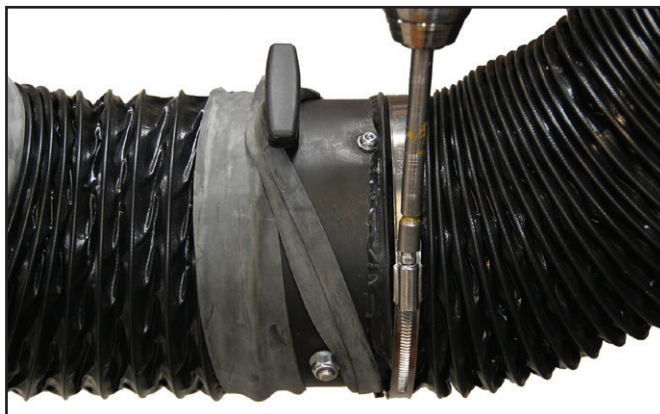
Mount the CERA arm on to the support bracket.



Pull the hose and clamp on to the flange and tighten it.



Mount the nozzle with M6 x 25 insex screws with washer. Use a size 5 Allen key.



The hose is mounted on the nozzle and the clamp is put on and tightened with a 7mm bitz.



The nozzle is now fully assembled.

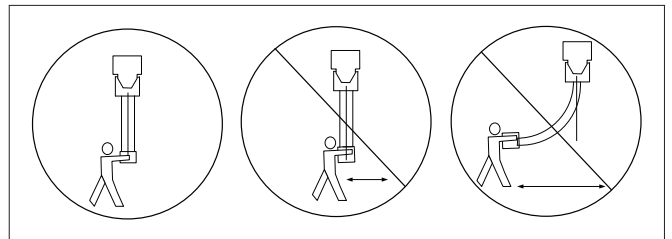
5.3 Control and test of the security system

Check that the trolley can operated in the channel duct without any problems. Always pull it with the following string with handle.

We also recommend checking if the fan is supplying the volume of air, for which the system has been dimensioned. If the pressure is not sufficient, then the risk of the hose melting is increased, and if the pressure is too high, then the trolley will be sluggish to move.

6.0 Commissioning

The trolley with the CERA arm is often moved by the operator. To ensure the longest possible life time of the system, the trolley must always be moved / pulled by the cord with handle, which is mounted on the hose trolley, as shown on the drawing below. If this is not complied with, the life of the system will be substantially reduced.



The nozzle is adjusted by using the 2 handles mounted on it, as shown in the photo below.

The Channel Duct System will not work according to the intentions if ...

- Unauthorised parts are mounted on the rail system, the Trolley, the hose or on the nozzle.
- The rail system is used for other purposes than for which it was originally intended.
- The fan is not switched on – the hose will melt!

Under normal conditions the arm is able to carry itself in the position within the working area. The arm bracket gives the arm a 360° working area.

The hose can be damaged and made leaky by external load from e.g. a screwdriver. This should therefore be avoided to ensure the longest possible life of the hose.

The nozzle should be placed directly in front of or close to the exhaust pipe. Right over the source of pollution. This captures up to 99% of the contaminated particles.

Always check that the correct amount of air is extracted at the nozzle.



7.0 Control, test and maintenance

Check the installation according to chapter 5.3.

7.1 Control

Check the installation according to chapter 5.3.

7.2 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 system should be overhauled by an authorised serviceman.

8.0 Cleaning

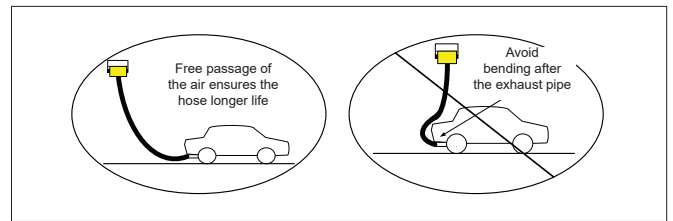
The outside of the product is cleaned with a vacuum cleaner or a cloth.

9.0 Troubleshooting

In case of problems with the CERA arm, the following points can be reviewed:

Problems with the hose

- The hose melts near the nozzle. This happens if there is not enough suction on the system, or if the hose bends near the nozzle. Can be fixed by increasing the air volume or by replacing the hose near the nozzle with high temperature hose.



10.0 Dismantling, disabling and scrapping

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

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

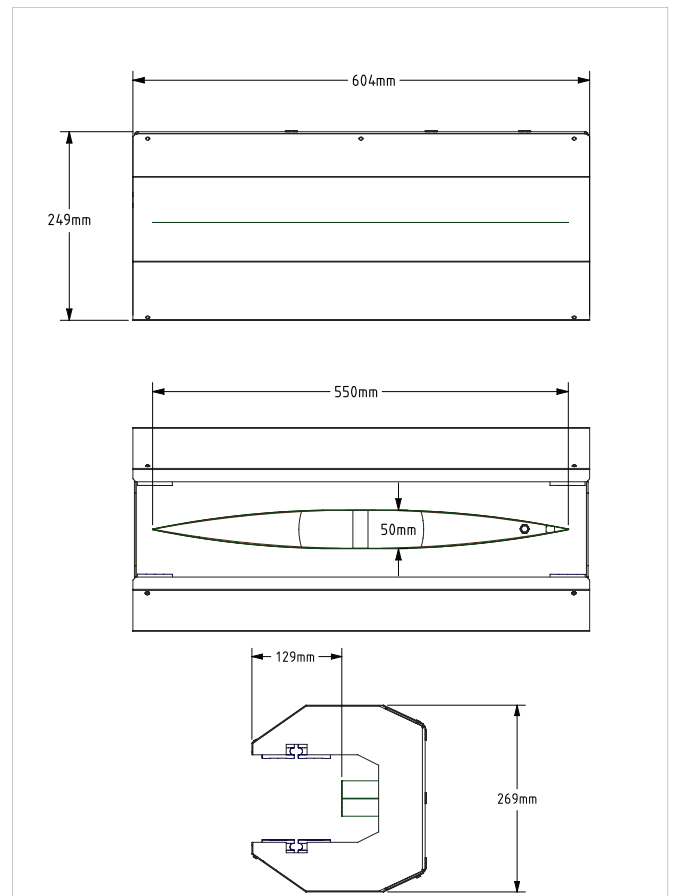
Dismantle plastic parts and dispose of it according to local regulations.

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.

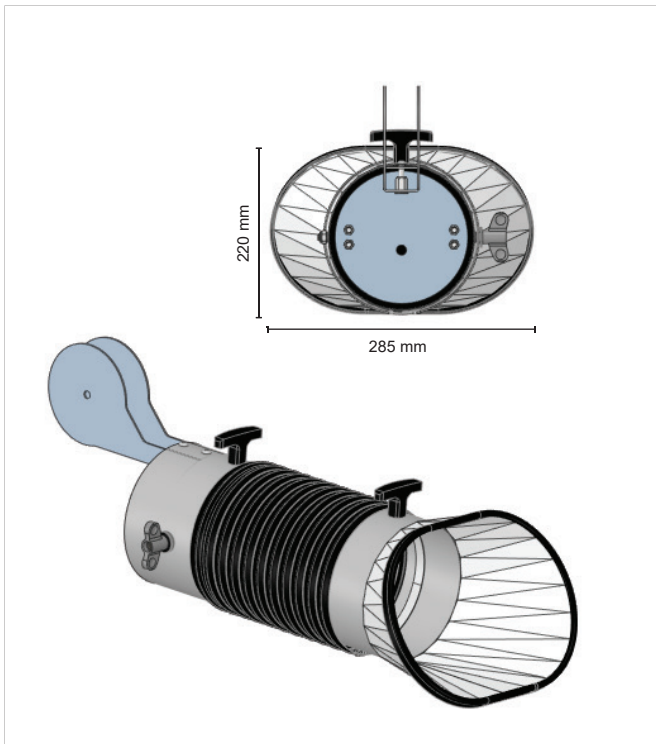
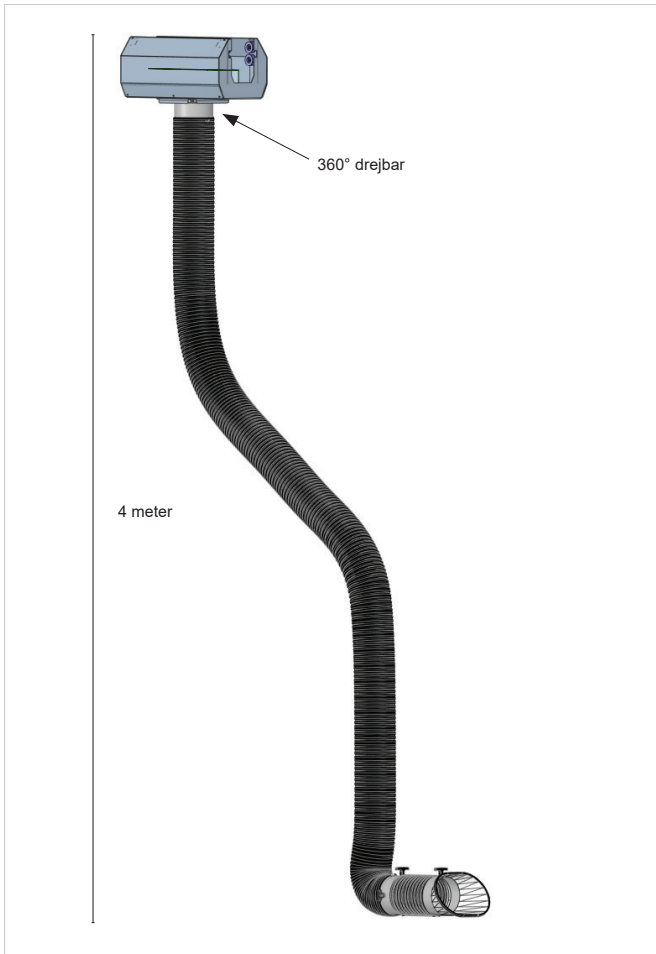
11.0 Dimensions

Trolley to CERA arm



Dimensions

CERA arm



12.0 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

13.0 Declaration of conformity

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

Hereby declares that:

The product: Chanal Duct
Model: Type 25

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: 19.04.2021

Position: Director
Name: Thomas Molsen

Signature: 



14.0 Spare part list

Art. No.	Description
95-300	2 x Friction discs ø114 mm
	Drejeled
	Friktionsklods
09-313-10	GeoFlex Weld ø165 mm, 10 meter
	Nozzle/Hood
12-008	Tight damper for hood ø160 mm



GEOVENT

HOVEDGADEN 86 • DK-8831 LØGSTRUP
(+45) 8664 2211 • salg@geovent.dk