

INSTRUCTION MANUAL



GEOGO

Mobile filterunit with WING-Arm, ESA-Arm or ASA-4 Arm

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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.

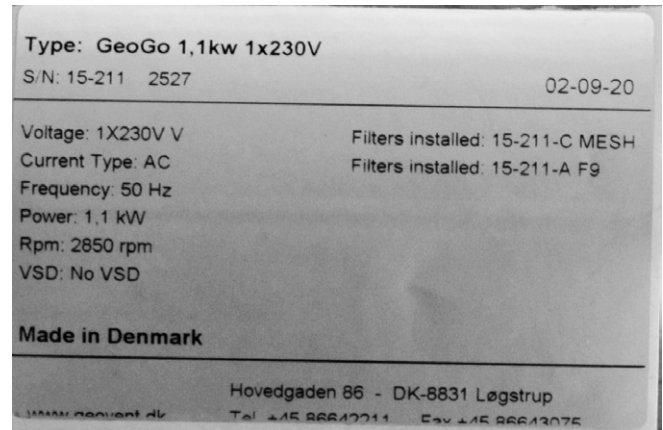
The product is manufactured by:

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www.geovent.com

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

This product is marked with:



2.0 Safety

2.1 General safety

Carefully read this manual before use of the system 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 instruction in this manual.

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.

The unit is mainly to be used for the extraction of dry dusts and fumes.

Do not use the unit for extraction of explosive gasses or in explosive zones.

Do not use the unit for extraction of substances under fire, or flammable substances like textiles, paper, oil, oil mist, sprays or the like.

Do not use the product for extraction of aggressive substances or fluids of any kind.

Do not use the product for extraction of organic substances.

Only use the product with the electrical current stated on the product.

Be sure that the holes on the outlet on the back of the product is not covered.

The unit must be equipped with an extraction arm.

Protect the cable and connector from heat, moist, oil and sharp edges.

Maintenance and the exchange of filter media must be done by following the instructions in chapter 7.0

The electrical wire must be replaced immediately if damaged.
This must be done by an authorized electrician.

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.

Always make sure that the device is in a safe position and that the brakes of the swivel caster wheels are on.

While opening, cleaning and maintaining the unit or while changing parts, disconnect the unit from the mains supply and secure it from being restarted.

In case of an accident or a fire:
Call for help. Disconnect the product from the mains supply.
Follow the normal and local requirements in case of an accident or a fire.

In case of problems:
Disconnect the product from the mains supply.
Inspect the product to see if a repair is possible.
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

The product GeoGo is a mobile filter unit to be used for extraction of welding fumes, and dry dust. GeoGo can be delivered with an extraction arm of your choice.

3.2 Intended use

Intended use

Carefully read this manual before use of the system and observe the safety instructions in order to avoid injuries!
Keep this manual in a safe place!
Observe all instructions marked on the product!
Observe the indications of the manufacturer.

The product GeoGo is a mobile filter unit to be used for extraction of welding fumes and dry dust.

The extraction arm must be installed before turning the product on.

Do not use the unit for extraction of explosive gasses or in explosive zones.
Do not use the unit for extraction of substances under fire, or flammable substances like textiles, paper, oil, oil mist, sprays or the like.
Do not use the product for extraction of aggressive substances or fluids of any kind.
Do not use the product for extraction of organic substances.

Only use the product with the electrical current stated on the product.

Be sure that the holes on the outlet on the back of the product is not covered.

The polluted air is taken in by the suction hood and enters into the unit. The operator can adjust the hood of the extraction arm to any position within its reach.

The air is filtered through a pre mesh filter and a main V-bank filter with a separation efficiency of more than 95%.

The cleaned air is returned to the working space via the outlet grid at the back of the unit.

3.3 Machine specifications

3.3.1 Design

Housing: Stable housing of steel with an epoxy coating.

Wheels: 2 large rubber wheels and 2 smaller turnable wheels with brake.

Filter media: Pre-filter of alu mesh. V-bank F9 or H13 Filter with a separation efficiency of more than 95% and 99% respectively.

Arm: The extractions arms available are: WING-Arm, ASA-4-Arm or ESA-Arm.



3.3.2 Technical data

Product description	GeoGo
Supply voltage	230 V
Type of current	1 Ph
Frequency	50 / 60 Hz
Engine performance	1,1 kW
Nominal current	7,0 A (at 230 V)
Volumetric air flow max. (without arm)	2.100 m ³ /h
Depression max. (without arm)	1.450 Pa
IP-rating	IP 54
ISO-Class	F
Control voltage	230 V
Width	630 mm
Depth	630 mm
Height (without arm)	1.050 mm
Weight (without arm)	120 kg
Filter elements	Prefilter and main filter
Separation efficiency	> 95 %
Sound pressure level	74 dB(A)
Ambient temperature	+5 to +30 °C
Air humidity	max. 70 %

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 using the handle for pushing or pulling.

It can also 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

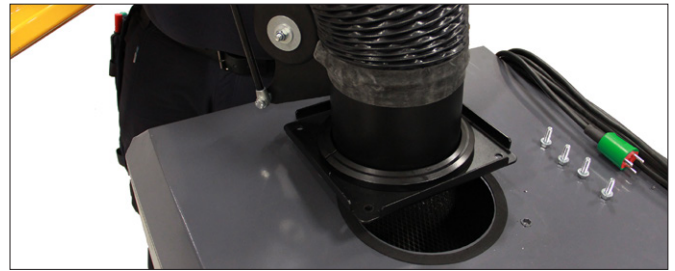
5.1 Location

The product is a mobile unit which can be moved from one place to the other.

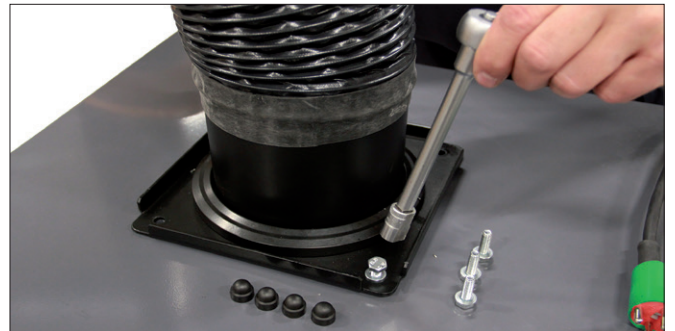
The product is designed to be used inside a dry and heated building.

We do not recommend placing the filter outside, as it may cause condensation, and some of the electronic components may cease to function at temperatures below -10°C.

5.2 Assembly



1. Mount the arm on the top of the filter unit



2. Use the supplied bolts and washers to mount the arm. Use the bolt covers!

Attention!

The alarm sounds when the suction performance is insufficient.

If the alarm sounds the filters must be replaced. (Please see chapter 7.2)

5.3 Control and test of the security systems

Unpacking the product

The product is delivered in separate parts in more packages. The parts must be assembled before use.

The use of an extraction arm

The arm is fixed to the product with the help of the supplied rotary flange, screws, and washers to the connection opening. The rotary flange, screws and washers are delivered together with the product.

Connecting the device

Connect the device to the mains supply.

Explanation of the control elements



Pos. 1

The unit is switched on or off by the main switch.

Pos. 2

The alarm sounds when the suction performance is insufficient.

If the alarm sounds the filters must be replaced.

6.0 Installation

Place the product on an even and safe surface. Activate the breaks of the turnable wheels.

Place the extraction arm in a position which suits the intended purpose of the product.

Turn the product on. Be sure that the correct mains current is used, and that the filter elements and the arm are properly installed.

Be sure that the product extracts the fumes etc. which it is intended for.

7.0 Control, test and maintenance

7.1 Control

Before using the product you must be sure that it functions properly.

Check that there is no unforeseen shaking or noise coming from the product.

Be sure that the door is closed, and that the product is tight.

Be sure that the product extracts the fumes etc. which it is intended for.

7.2 Maintenance

Pull the mains plug for all kinds of maintenance tasks.

Periodic maintenance

- If the arm cannot stay in position e.g. if it moves from the desired position, you will need to adjust the joints
- Inspect the state of the hose and friction discs. Replace these if necessary. Contact your dealer for spare parts.

The unit should be inspected by an authorized servicetechnician at least once a year.

7.3 Exchange of filter elements

The filter element must be changed when it is blocked. The time before it gets blocked depends on which kind of application it has been used for.

Attention!

All filter elements are non-returnable filters. All kinds of manual cleaning can destroy the filter. Pollutants may penetrate into the ambient air and can endanger your health.

Only replace the filters in sufficiently ventilated rooms and with an appropriate respiration protection.

Only use original filter elements from Geovent A/S.

- Switch off the unit at the main switch (pos. 1) Prevent the unit from being accidentally restarted by disconnecting the mains plug from the socket.

Always use appropriate protective equipment



1. Open the door of the product.



2. Take out the Alu mesh filter element



3. Take out the V-bank filter element
4. Put in a new Alu mesh filter element
5. Put in a new V-bank filter element

8.0 Cleaning

The outside of the product is cleaned by means of a vacuum cleaner or a damp cloth.

REMARK: Do not clean the product during operation. Turn the product off before cleaning.

When the alarm sounds you must change the filter elements.

When you open the door of the product, you must wear protection gloves, eye protection and a suit covering your body.

9.0 Troubleshooting

Fault	Possible cause	Remedy
Extraction performance too weak (Fumes are not or hardly extracted).	Filter elements are saturated	Replace the filter elements, dispose of the used filters appropriately!
	The clean air outlet is narrowed or covered.	Check the clean air outlet, repair the fault if necessary.
	The filter element is damaged.	Replace the filter element.
The product does not start.	The mains plug is not or not correctly plugged into the socket.	Check/correct the mains connection.
	The socket is not supplied with voltage.	Check the electric circuit. If necessary, consult an electrician.

10.0 Dismantling, disabling and scrapping

When you dispose of the product you should dismantle the filter elements as described in chapter 7.2.

It is very important that the instructions of this manual is followed in order to avoid contamination of people and the environment!

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

Dismantle the electronics, wires and cables and put these into a suitable bag. Afterwards 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.

BEWARE of sharp edges of the metallic parts which could harm persons etc.

11.0 Documents and drawings

See chapter 3.3

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 (repairation 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



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

hereby declares, that:

Product: Mobile filterunit
Model: GeoGo

complies with the following directives and standards:

Directive 2006/42 / EC of the European Parliament and
of the Council of 17 May 2006 on machines and amend-
ing 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: 03.09.2020

Position: Director
Name: Thomas Molsen

Signature :

CE

14.0 Appendix

14.1 Spare parts list

Art. No.	Description
15-211A	V-ban Filter F9
15-211B	Pre-filter M5
15-211-C	ALU mesh filter
95-009	Wheel 200mm
95-010	Wheel 80mm turnable with brake



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