



**GEOVENT**

## INSTRUCTION MANUAL



# GEOFILTER OIL



## Contents

1.0 Introduction	3
2.0 Safety	3
2.1 General safety	3
2.2 Danger	3
3.0 Machine overview	4
3.1 Description	4
3.2 Intended use	4
3.3 Machine specifications	4
3.3.1 Design	4
3.3.2 Technical data	4
4.0 Transport, handling and storage	4
5.0 Assembly, installation and start of operation	4
5.1 Location	4
5.2 Installation	5
5.3 Control and test of the security system	5
6.0 Commissioning	5
6.1 After installation	5
7.0 Control, test and maintenance	5
7.1 Control	5
7.2 Maintenance	5
7.3 Replacing filter	5
8.0 Cleaning	6
9.0 Troubleshooting	7
10.0 Dismantling, disabling and scrapping	7
11.0 Dimensions	7
12.0 Liability	8
13.0 Declaration of conformity	8
14.0 Spare part list	9

## 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.

This product is marked with: (example)

**15-020**



**Geofilter Oil 100 400x400**

**15-220**



**Geofilter Oil 160 400x600mm**

## 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.

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 Machine overview

#### 3.1. Description

GeoFilter Oil is used to remove oil mist from e.g. cutting machines so that the oil does not reach the central pipe system.

This prevents the oil from condensing in the pipe system.

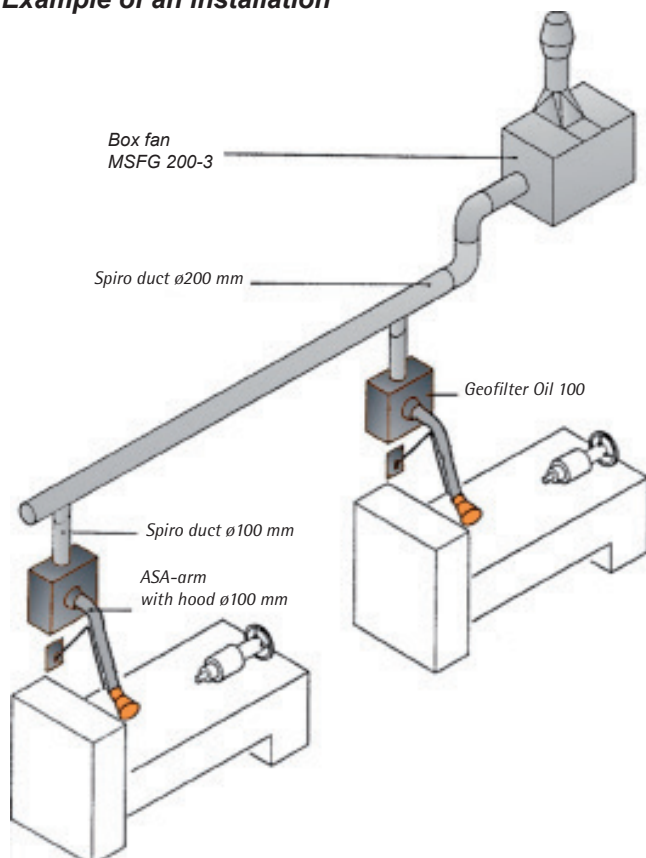
#### 3.2 Intended use

It is recommended to use an oil mist filter for at each machine to avoid oil in the central extraction system.

The filter medium, which is made of stainless steel mat, can be removed via the removable bottom.

The bottom is provided with a tap for draining separated oil, which can be recycled.

#### Example of an installation



### 3.3 Machine specifications

#### 3.3.1 Design

Cabinet: Galvanized steel  
Powder coated

Filter medium: 400x400, stainless steel filter mat or  
400x600, stainless steel filter mat

#### 3.3.2 Technical data

##### Dimensions

Model/Dimension	A [mm]	B [mm]	Inlet [mm]
GeoFilter Oli 100	400	400	ø100np
GeoFilter Oli 160	400	600	ø160np

Model/Dimension	Outlet [mm]	Weight [kg]
GeoFilter Oli 100	ø100np	7,0
GeoFilter Oli 160	ø160np	9,2

### 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

To ensure a fault-free function, the product must be installed indoors. Outdoor installation is not recommended.

Before installing the product, make sure that an optimal location is chosen. Is there room for the product? Is there room for maintenance and filter change?

## 5.2 Installation

GeoFilter Oil must be installed indoors. Outdoor installation is normally not recommended.

GeoFilter Oil is supplied complete and ready for installation.

Before installation consider the best placement for the GeoFilter Oil. Is there space enough for carrying out satisfactory installation/-service of the filter?

The following installation should be done by a trained professional.

## 5.3 Control and test of the security system

Before use the function of the filter should be tested.

Make sure that the entire installation is air tight. If a whistling sound is heard, then locate the leak and seal it using flexible mastic.

The entire extraction installation should be checked at least once a year by a qualified service technician.

### Periodic maintenance:

Check the oil particle filter at regular intervals. Clean it if it needs to. If it is densely covered with oil that cannot be cleaned off, the filter mat must be replaced.

## 6.0 Commissioning

### 6.1 After installation

Check the installation according to chapter 5.3.

## 7.0 Control, test and maintenance

### 7.1 Control

Check the installation according to chapter 5.3.

### 7.2 Maintenance

Check the oil filter at regular intervals. Clean it if it needs to. If the oil cannot be cleaned off, the filter mat must be replaced.

### 7.3 Replacing filter

Below is an instruction for change of filter.

Remark: The change of the filter medium which is illustrated in this manual, is on a filter, which is not installed. The filter unit is tuned upside down in the illustrations. However, the process is the same if the filter is installed.



1. Click the lock open.



2. Lift off the lid.

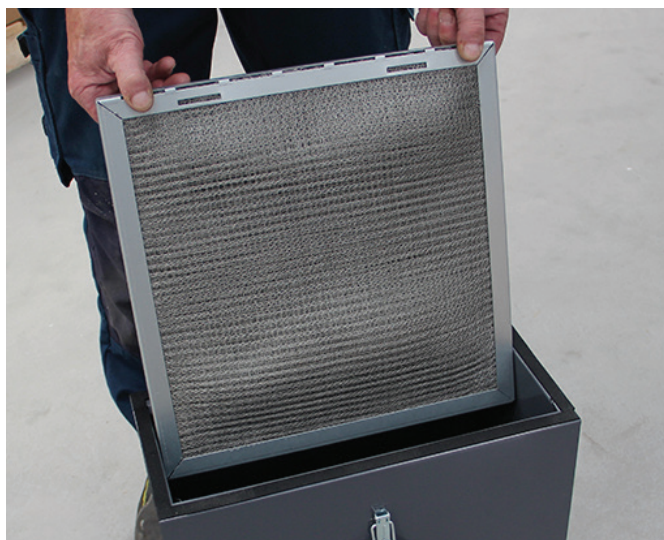


3. Gently bend the bracket about an inch upwards.

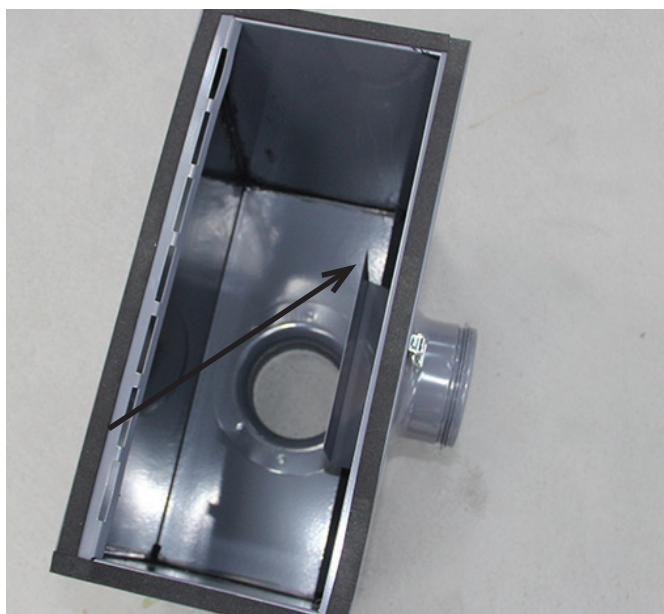




4. Loosen the filter medium by pushing it forward.  
Grab the filter at the metal frame.



5. Pull up the filter medium.



6. The filter frame must be placed within the bracket in the opposite end of the filter cabinet.



7. Insert the new filter medium.  
Gently fit it into the frame.  
Push it all the way to the bottom of the filter cabinet.



8. Gently push the filter medium into place. It may be necessary to lift the filter up a little to make it fit. Afterwards the lid is placed on the filter cabinet and latched.

## 8.0 Cleaning

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

## 9.0 Troubleshooting

In case of troubles please check the following issues:

- If there is a large pressure drop across the filter, the filter medium must be replaced.
- If the oil does not separate in the filter, the filter medium will probably need to be replaced.
- If there is oil in the filter cabinet, the drain may be blocked.

## 10.0 Dismantling, disabling and scrapping

It is important that these instructions are followed to avoid contamination of persons or the environment.

Protective equipment must be worn before separation, gloves, goggles, respirator and protective suit, to avoid injuries.

When disposing of the product, the filter medium must be removed and disposed of according to local rules and regulations.

Clean the inside of the product with a cloth. Dispose of the cloth according to local rules and regulations.

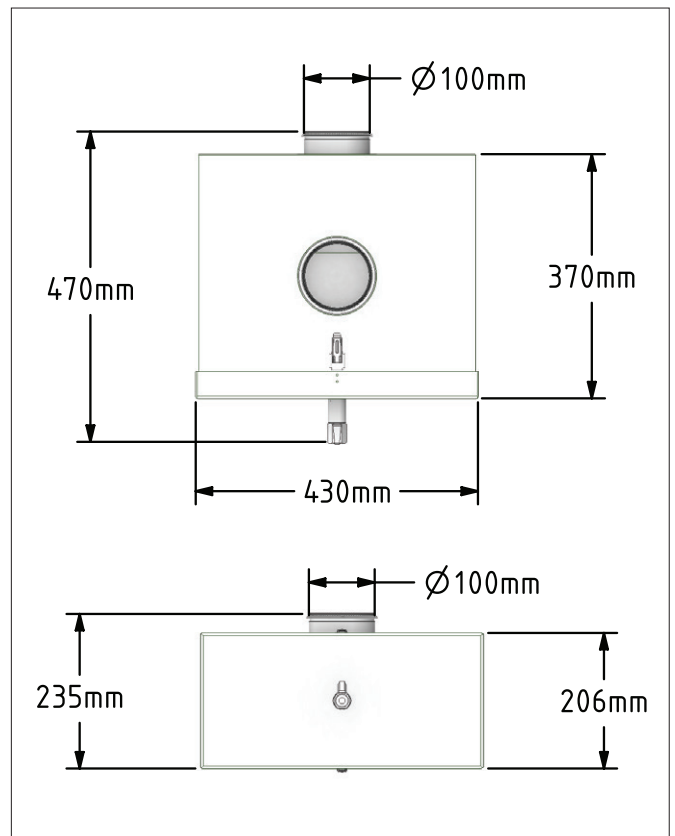
Dismantle plastic parts and dispose of it according to local regulations.

Dismantle and separate metal parts by screwing them apart. Then cut larger parts into smaller pieces and dispose of it according to local rules and regulations.

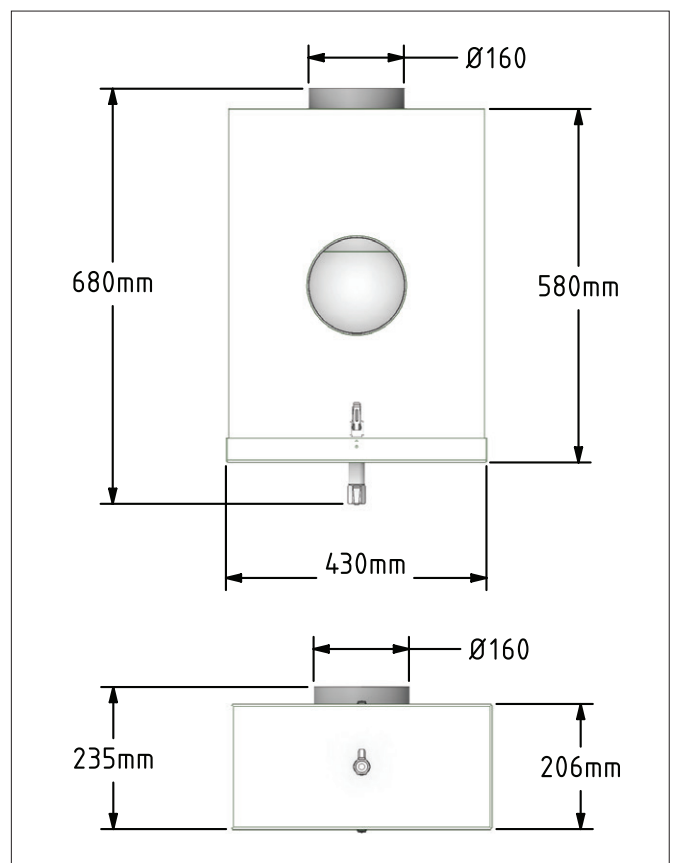
Packaging must be sorted and disposed of in accordance with local regulations and regulations.

## 11.0 Dimensions

GeoFilter Oil 100



GeoFilter Oil 160



## 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](http://www.geovent.com)





### 13.0 Declaration of conformity

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

Hereby declares that:

The product: GeoFilter  
Model: GeoFilter Oil 100,  
GeoFilter Oil 160

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: 24.01.2024

Position: Director  
Name: Thomas Molsen

Signature: \_\_\_\_\_

### 14.0 Spare part list

Art. No.	Description
15-030	Stainless steel filter mat 400x400
15-031	Stainless steel filter mat 400x600











***GEOVENT***

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