



GEOVENT

INSTRUCTION MANUAL



**GEOFILTER
GFO 315**

Table of Contents:

1.0 General safety precautions.....	2
1.1 Danger.....	2
1.2 Field of application.....	2
1.3 Technical data.....	2
1.4 Construction.....	3
2.0 Installation.	3
2.2 Test Run - adjusting	3
3.0 User instruction.....	4
4.0 Maintenance.....	4
4.1.2. Replacing filter cartridges.....	4
4.2 Trouble shooting	6
5.0 Liability	6
6.0 Declaration of conformity	8

1.0 General safety precautions

Remember always to read the manual. General maintenance and replacement of filter media demands careful reading of section 4.
Do not dismantle the factory-mounted parts, because the commissioning of the media.

1.1 Danger

It is extremely dangerous to dismantle original parts of GFO 315 filter while it is in use.
Before installation or service of GFO 315 filter, make surePower is disconnected.

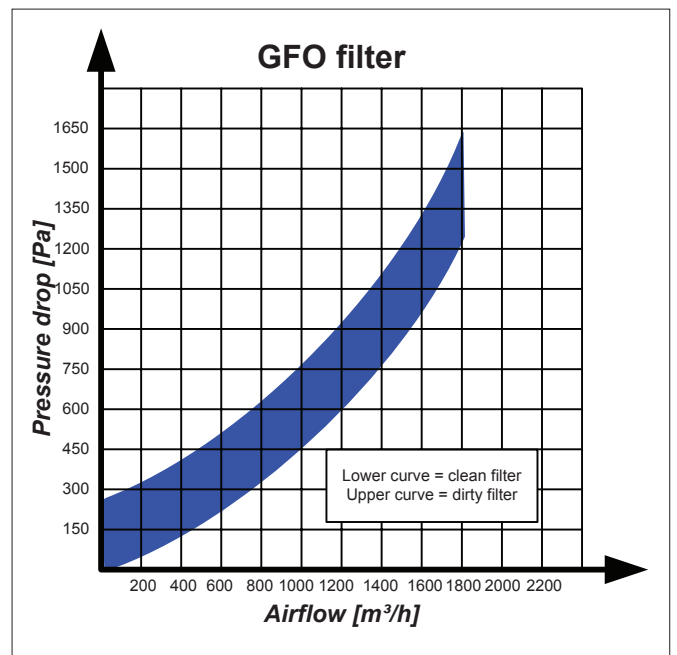
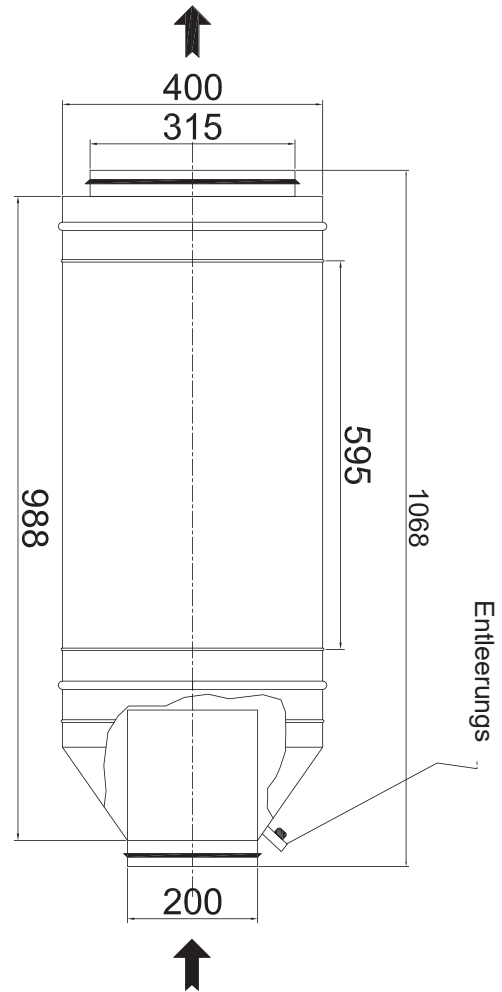
1.2 Field of application

GFO 315 used for filtering of oil-saturated air from industrial processes.
The filter cannot be used in areas classified as ATEX zones, for example for aluminum, flour and wood dust and other media associated with danger of explosion.
GFO 315 comes with filter cartridge of 100% polyester.

Install the filter indoors, to prevent condensation problems.

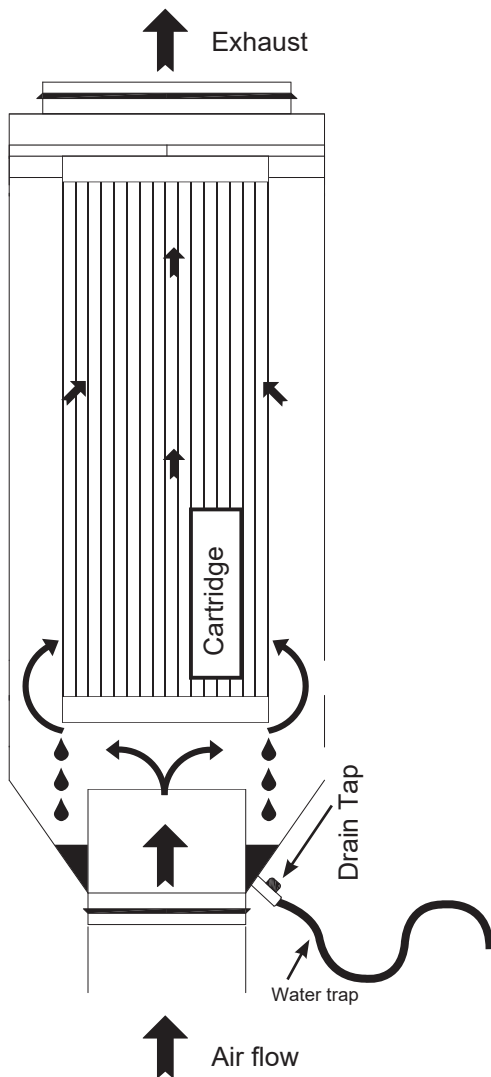
1.3 Technical data

Table of dimensions



1.4 Construction

A qualified person should only do the following installation.



2.0 Installation

GFO 315 filter should be installed indoors, for example technical room with good ventilation for safe operation.

FILTER IS NOT SUITABLE FOR OUTDOOR LOCATION.

Consider the optimum installation area before installation. Is placement of the filter inside possible? Is there space enough installation and service of GFO 315 filter? Is there optimal connectivity for piping?

Make sure that there is sufficient ground clearance, so you can disconnect GFO filter lid when replacing the filter cartridge. At the bottom of GFO filter there must be room for the filter to drain the oil from the mounted tank drain tap.

It must be ensured, that the pipe from the drain tap forms a water trap, so that air or oil is not sucked back into the filter.

Procedure:

1. GFO 315 filter is inserted in the vertical duct system or console (See picture p.5)
2. The GFO 315 to be connected circular spiral ventilation duct (SPIRO) on both clean and dirty side. (The lower pipe connection is always dirty side). Remember to seal the connection with joint compound and/or tape!
3. To ensure the free blending, should the return be two meters the roof ridge to the atmosphere with a return rate of at least 8 m/s.
It is advisable to check if the ventilation system supplies the airflow, as the system is sized to. Measure the airflow and adjust using adjustment damper. In case of overcapacity the power consumption (amps) may exceed the motor of the fan capacity. If so, the motor will burn off. See the manual for the fans.

2.2 Test Run - adjusting

When the filter has been mounted and properly installed, ready to use, there will be no interaction between user and filter. Of course, the user must be aware of is the correct flow in the system. In these cases, see section

3.0 Anvendelse - Brugerinstruktion

Once the filter is mounted and installed, ready to use, there will be no user-filter interaction. Of course, the user must be aware of the correct suction in the exhaust system. In these cases see pkt. 4.0 Maintenance.

Filterpatroner

The filter media must drip off 8 hours a day.

4.0 Maintenance

A qualified technician should inspect the entire exhaust ventilation system - at least once a year.

Periodic maintenance:

- Check pressure drop across filter and replace filter cartridges, if this exceeds 1500 Pa.
- Check the filter's clean side of oil or dust particles periodically and replace filter cartridges in the event of leaks.
- Empty the filter reservoir of oil using the drain tap at the bottom.

4.1.2. Replacing filter cartridges

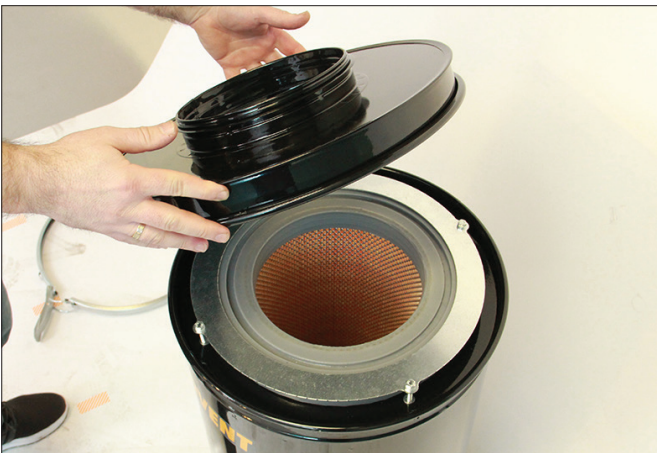
After about 4.000-8.000 hours of operation or max. 4 years should the filter media be replaced. (Depending on the load.)

If you have access to remove, the filter cylinder head is procedure as following:

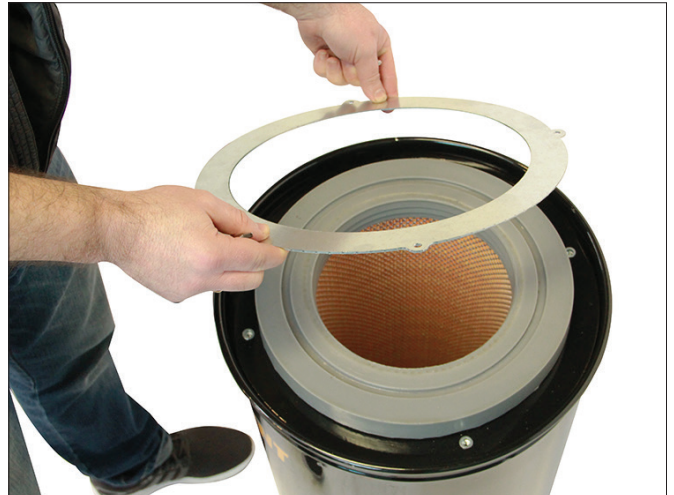
1. It is important that the service technician is wearing the appropriate personal safety precautions. Such as respirators and gloves that comply with Danish Working Environment Authority rules.



2. Loosen the upper clamp on the filter. Lift the top of to gain access to the top plate in which the filter cartridge is mounted.



3. Undo the filter cartridge from the top cover by removing the four screws as shown in the picture above.



4. Save the top plate - it must be mounted on top of the new filter cartridge.



5. Pull carefully the contaminated filter in a plastic bag, which is sealed and disposed of in accordance with the rules on disposal of oil and chemical waste.

6. The new filter cartridge is carefully placed, (so the media is not damaged) then mount the top plate and secure it with the four screws

NB:

Remember to mount the filter cartridge with the opening facing upwards.

7. The lid is gently moved into place and secured with the previously removed bolts. Slide the lid down slightly to make sure it is properly positioned.

8. Put the top plate with the filter cartridge back into the cabinet. Put the top on the filter and tighten the clamp to assemble the top and the middle piece.

9. Carefully remove the contaminated filter media and place it in a large garbage bag for proper disposal according to local regulations.

Put the top plate with the filter cartridge back onto the cabinet. Put the top on the filter and tighten the clamp to assemble the top and the middle piece.

If you cannot remove the filter cylinder head, the procedure is as following:

1. Loosen both clamps on the filter as indicated in the picture below.



2. Remove the middle piece and replace the filter.

NB:

Remember to mount the filter cartridge with the opening facing upwards.

4.2 Trouble shooting

Problem: The filter does not absorb, as it should.

Potential solution: Check if the filter cartridge is correctly oriented. Filter cartridge opening should be facing up.

Problem: There is not enough airflow.

Potential solution: Check if replacement of the filter cartridge is due as mentioned in paragraph 4.1.2.
Replace the filter cartridge, if that is the case.

Problem: Noise from the filter.

Potential solution: Check if the filter cartridge is properly secured to the top plate. Secure the filter cartridge.

Problem: Oil in the filter reservoir does not run out.

Potential solution: Check if grinding dust or metal shavings blocks the drain tap. Clean, if this is the case.

5.0 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 (repair 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 because of defects on products from Geovent.

Wear parts as fan wheels and hoses are not included in the warranty.

User liability:

In order for Geovent to grant 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 consent from Geovent A/S.

Moreover, we refer to the current terms of sale and delivery at www.geovent.com.

6.0 Declaration of conformity0 EF-o



GEOVENT

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

hereby declares that:

The product: GeoFilter GFO 315

has been manufactured in compliance with the following directives and standars:

European Parliament and Council Directive 2006/42/EC of 17 May 2006 on machinery, and amendments to Directive 95/16/EC.

EN ISO 14121-1:2007 Risk assessment – part 1

EN ISO 12100-1:2005 Basic concepts and general principles for design.

EN ISO 12100-1:2009 construction and design
Part 1: Basic terminology and methodology

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

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

Authorized to collect the technical file:

Ole Madsen

Date: 31.10.2019

Position: Managing director
Name: Thomas Molsen

Signature :



GEOVENT

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