



Operating manual oil filter ÖF

Issue: 01/2017

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Please read the operating manual carefully in full before you install or operate the oil filter ÖF

1. INTENDED USE

WITT-oil filter ÖF are exclusively intended for being used in refrigeration systems.

2. SAFETY REGULATIONS

All the work carried out at refrigeration systems must be performed by qualified personnel, trained in handling refrigeration systems. The safety regulations and accident prevention measures that apply to the handling of refrigerants must be observed.

The pressure values indicated in the technical specifications must under no circumstances be exceeded.



The personal protective equipment required in the safety regulations is to be worn, especially safety glasses and safety gloves.

Safety instructions for the operating personnel in case of disturbances, critical failures and accidents:

In case of functional failures, pumping operation is to be stopped until the normal operating condition has been restored. In case of accidents, it is to be proceeded according to the currently valid accident management plan.

3. WARRENTY TERMS

For functionality of the device Th. WITT Kältemaschinenfabrik grants a 12-months warranty period from the date of commissioning, at the longest, however, for 18 months from delivery to the user. For avoidance of accidents and for guaranteeing safety of the refrigeration system, it shall neither be allowed to carry out modifications nor conversions at the non-return valves, which are not explicitly permitted by the TH.WITT KÄLTEMASCHINENFABRIK GmbH.

Liability or warranty of the manufacturer shall be excluded, in case (list of critical failures and mistakes of the operating personnel leading to trouble or failures):

- Notes and instructions of the operating manual in hand have not been observed,
- The oil filters ÖF have been operated in a faulty way or their handling does not comply with the specified procedure.
- The oil filter ÖF has been applied contrary to the intended use.
- Functional changes of any kind have been made without the manufacturer's consent.
- The relevant safety regulations and accident prevention regulations have not been observed during operation of the oil filters ÖF.

4. RANGE OF APPLICAITON

Oil filters ÖF are suitable for all commercially available cooling agents, e.g. NH₃, CO₂, R 507, R 22, R134a, R404a, R410 and oils.

5. CONFORMITY DECLARATIONS

Oil filters ÖF are manufactured according to European standard.



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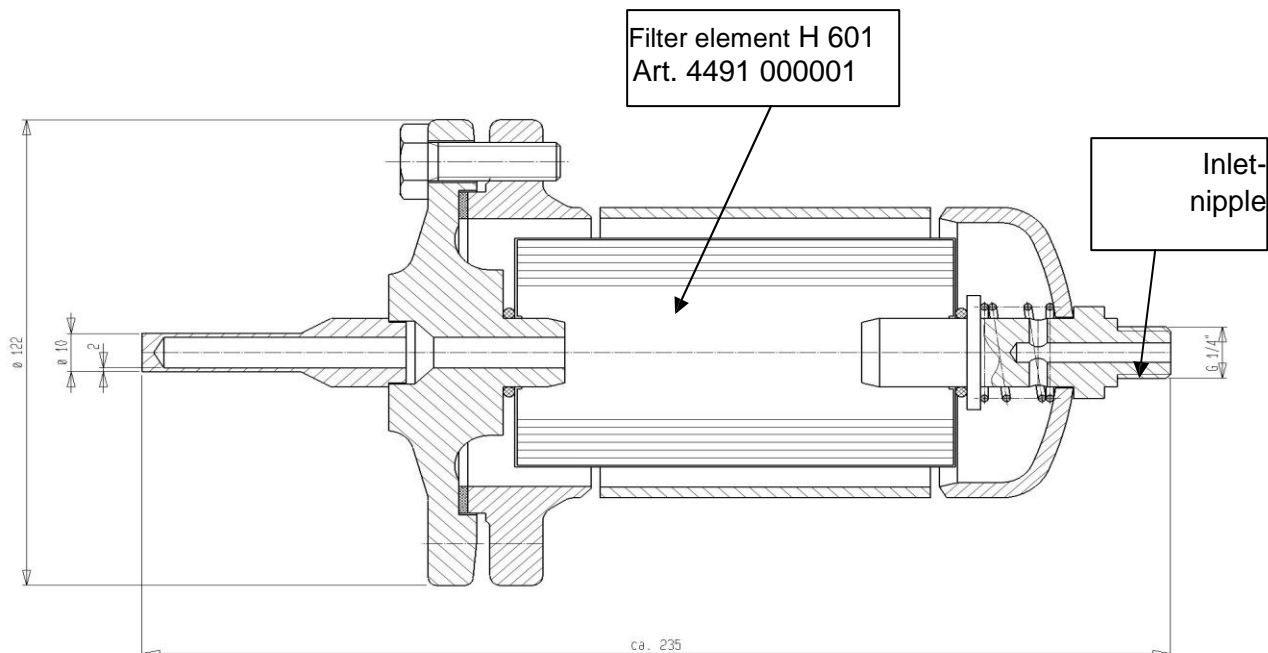
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6. TECHNICAL DATA

Filter element type: H 601



Operating pressure-/temperature range:

	max. permissible pressure P_s at t_0 100	max. permissible pressure P_s at t_0 75	Test pressure PT
ÖF – 25 bar	-1,00 bar to 25,00 bar between -10°C and 150°C	-1,00 bar to 18,75 bar between -10°C and -60°C	40,00 bar
ÖF – 40 bar	-1,00 bar to 40,00 bar between -10°C and 150°C	-1,00 bar to 30,00 bar between -10°C and -60°C	66,00 bar

Materials used:

Filter housing:	St 35.8/l
Filter cover:	C 22.3
Filter plate:	C 22.3
Connecting nipple:	C 22.8
Filter bottom:	P265GH
Gasket:	Centellen
O-ring :	Neoprene
Spring:	Spring steel
Screws:	A2-70
Filter:	Paper

7. FUNCTIONAL DESCRIPTION

The filter is used in oil return systems, where it prevents contaminations from entering into the housing.

8. TRANSPORT AND STORAGE



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All openings (connections, etc.) are provided with yellow protection caps, which prevent water, dirt particles, etc. from entering into the valve. The oil filters ÖF are to be transported and stored in a dry place and be protected from contamination.

The oil filters shall not only be protected against penetration of moisture, but also against chips. If necessary, the heat exchanger is to be dried from inside.

The storage period of the tank system is 5 years. After expiry of the five-year storage period the interior part of the filter is to be replaced.

9. ASSEMBLY

The oil filter ÖF is connected to the piping by means of the corresponding connecting nipple. The screwed connection is provided for installation in the tube bundle heat exchanger type DWR.

10. MAINTENANCE AND INSPECTION

Before replacing the filter, it shall be made sure that the filter housing is free from overpressure. Loosen the flange screws and change the filter element. After exchanging the filter element, recreate the vacuum inside the filter housing and put the system into operation again.



Maintenance and inspection work may exclusively be carried out by trained personnel. Wearing of personal protective equipment, e.g. protection glasses is mandatory.



The filters are to be replaced depending on the degree of contamination.

11. TAKING THE OIL FILTER OUT OF OPERATION AND DISPOSAL

Oil filters ÖF are to be disposed, if it is determined in the technical examination that they are no longer suitable for operation. After the removal of filters, which were used for toxic or hazardous liquids, system residues shall mandatorily be removed from the filter and the flow-through unit be rinsed with a neutral liquid until the concentration of the pump fluid is back into the permissible value range according to the safety and environmental regulations. After neutralization of the flow-through unit, the heat-exchanger may be disposed. All individual parts and assembly units of the filter are to be disposed.

12. NAME, RESIDENCE AND CONTACT DATA

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