



Distribution of Filtration Solutions

- air
- oil
- water
- emulsion

A.B.O. environmental services

Schmiedweg 4, Peterskirchen

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FILTRATION UNIT



T 10



T 20



T 30



H 10



H 30

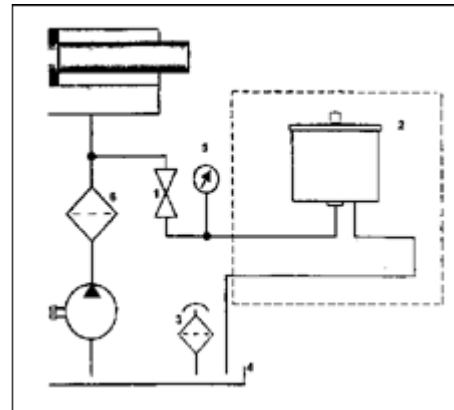
Types of T - series

Specifications

The ECOFIL filter housings of the T-series are developed for cleaning lubricating oil, both in combustion engines and other lubrication applications. They are made out of first class steel and exist in two sizes in function of the tank capacity to be filtered.

Installation

Using the main oil system pressure, the ECOFIL housing of the T-series are not equipped with a pump and motor. It is simply connected to the main oil circuit with two hoses, thus creating a by-pass oil circuit. The installation in by-pass of the ECOFIL oil cleaner makes sure that the original system is never influenced. The by-pass installation only enables the continuous filtration of small quantities of oil at a low pressure.



installation scheme

T 10

The T 10 filter housing is fit for installation on combustion engines of luxury cars, small vans or forklifts with a maximum tank capacity of **15 liters**. It has a filter capacity of **1.5 liters** per minute. It can also be installed on lubrication applications (without combustion) with a tank capacity of maximum **250 liters**. As the cleanliness of the oil is herewith kept in a very high grade, its lifetime is considerably extended. Furthermore, the changing interval of the full flow filter is extended 2 to 3 times.



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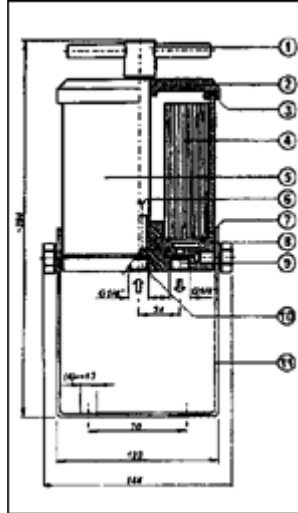
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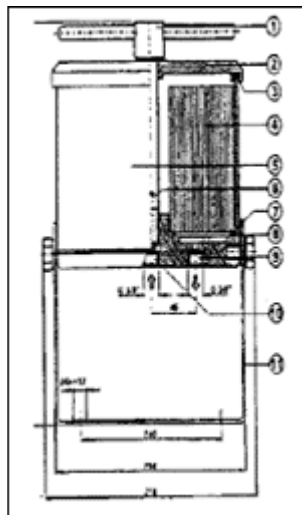
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T 20

The T 20 filter housing is fit for installation on combustion engines of luxury cars, small vans of forklifts with a maximum tank capacity of **25 liters**. It has a filter capacity of **2 liters** per minute. It can also be installed on lubrication applications (without combustion) with a tank capacity of maximum **500 liters**. As the cleanliness of the oils is herewith kept in a very high grade, its lifetime is considerably extended. Furthermore, the changing interval of the full flow filter is extended 2 to 3 times.

Specifications:





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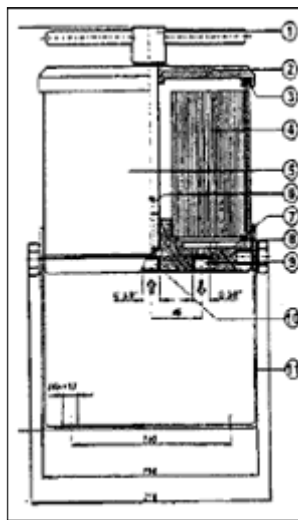
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T 30

The T 30 filter housing is installed when the lubrication application's tank capacity is between 250 and 1,000 liters. For combustion engines, the maximum tank capacity is limited to **45 liters**. The T 30 filter housing has a filter capacity of **3 liters** of oil per minute. For tanks larger than **1,000 liters**, more filter housings are connected in parallel, their number depending on the tank capacity.

Specifications:



Advantages

- *Redundancy of oil changes.* Because of the absence of combustion, by keeping the oil at a very high degree of cleanliness, the usual oil changes become redundant. By absorbing more than 90% of all contaminants like metal particle, sand and dust, the oil remains clean and is able to keep fulfilling its lubricating function. Therefore it doesn't have to be condemned and has an almost endless life.
- *Extension of the full flow filter lifetime.* Most contamination being captured by the bypass filter prevents saturation of the full flow filter. It will therefore not have to be changed as often.
- *Important reduction of wear and tear.* Captivation of particle contaminants avoids their disastrous effect on all the components of the engine. The usual wear is reduced to an absolute minimum. Replacement of spare-parts for pump, motor, packings, cylinders, pistons etc. is avoided.
- *Prolongation of the lifetime of the engine.* The reduction of wear and tear extends the lifetime of all components and therefore also of the entire engine.
- *Reduction of maintenance and repair costs.* The prolongation of the oil changing intervals and the reduction of wear and tear automatically result in the reduction of maintenance and repair costs as well as the decrease of idle time.
- *Environment friendly corporate culture.* Prolongation of the lifetime of the oil prevents waste of natural resources. In countries where the removal of condemned oil is taxed, the extension of its lifetime is also economically rewarded.



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H - series

Specifications

The ECOFIL filter housings for hydraulic applications are like the T-type filter housings manufactured out of first class steel.

They are manufactured according to the regulations of the EC, they are treated against corrosion and have been tested and approved for working pressures until 350 bar.

The H- series systems need neither pump nor motor. They are set up in by- pass on any hydraulic circuit with an operating pressure between 8 and 350 Bar. All housings of the H-series are equipped with a steel mounting bracket for easy fixation on horizontal as well as vertical surfaces. To obtain the perfect conditions for microscopic depth filtration (constant low pressure and constant flow) the filter housings are equipped with a flow control valve.

The built-in relief valve prevents the oil pressure to build up. This valve will open at a pressure of 5 Bar, after which the oil flows directly to the return hose without passing through the filter cartridge.

A pressure gauge indicates the necessity of cartridge changes in function of the counter pressure, caused by the progressive saturation of the filter cartridge. Depending on the contents of the oil reservoir, two types of ECOFIL filter housings are available for hydraulic applications:

Tank	Capacity
H 10	250 liters
H 30	1000 liters

For applications with higher tank capacities, ECOFIL offers the solution of one or more retail blocks each connected to two or three filter housings of the T 30 type. In this case it is not the filter housing itself but the retail that is equipped with both a flow control valve and a relief valve. These retail blocks are called "Flow Control Terminals (FCT) and are available in two different versions:

FCT	N°of T 30	Flow Control
F 60	2	6 Ltr/min.
F 90	3	9 Ltr/min.



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Installation

The ECOIFIL H- series are, similar to the T-series installed on the hydraulic oil circuit, using the system pressure of that circuit. The H- series are equipped with a flow control valve to reduce the system pressure in order to ensure the continuous filtration of small quantities of oil at low pressure.

The ECOFIL H-series are installed on the hydraulic circuit in by-pass, taking the "IN"- connection as near as possible after the oil pump on the high pressure line. Armoured high pressure hoses connect the filter housing with the main high pressure oil circuit.

It is clear that all parts and connections used in the bypass high pressure line have to be resistant to the main systems working pressure. It is advisable to integrate a needle valve in the inlet line of the by-pass circuit to stop the oil flow to the filter housing in case of cartridge changes. Easy sample taking is enabled by integrating a mini-mesh behind the inlet valve.

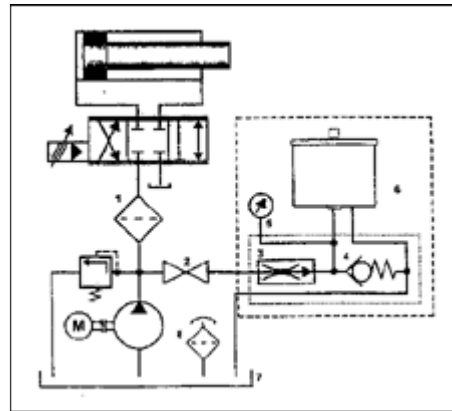
Therefore it suffices to connect the housing with the hydraulic oil circuit with two hydraulic hoses that are resistant to the pressures on that same hydraulic circuit and thus creating a by-pass oil circuit.

This by-pass oil circuit prevents the installation of an ECOFIL oil cleaner having any influence on the working conditions of the original hydraulic circuit.

The purified oil is returned to the main system's oil tank under low pressure. The hoses and connections used on the return circuit do not have to be of the same quality as the ones used on the intake circuit.

Complete installation kits are available from ECOFIL, including the necessary hoses, adaptors and connection to make the installation. As the final connection possibilities to the main circuit however are numerous, it is clear that is impossible to also include all possible adaptors. These will always have to be ordered separately.

Before starting the installation, always make sure that a filter cartridge is inserted in the filter housings.



installation scheme

Types of H - series

H 10

The H 10 filter housing is installed on hydraulic systems with a maximum tank capacity of **250 liters** and has a filter capacity of **1 liter** per minute. As the entire tank content is thoroughly filtered at least every three hours, the oil is kept free from all contaminants and does therefore not have to be replaced. The expensive hydraulic machinery, now continuously running with clean oil remains in top condition, because none of the components is affected by contaminant particles.



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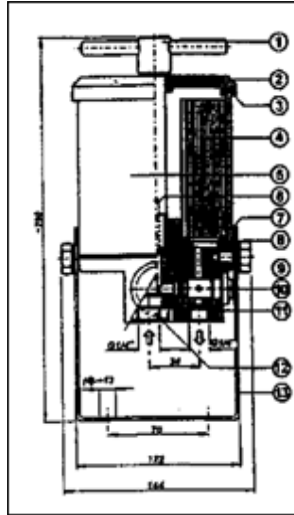
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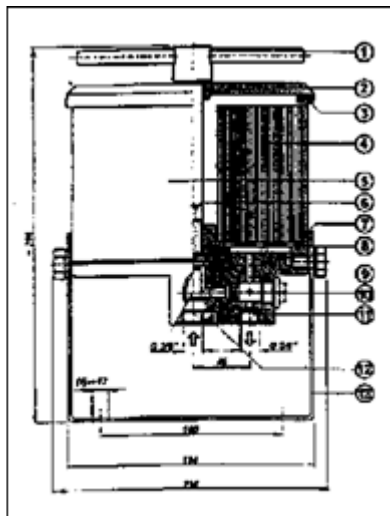
Specifications:



H 30

On hydraulic systems with a tank capacity between **500 and 1,000 liters**, the filter housing H 30, which has a filter capacity of **3 liters** per minutes, is installed. As the entire tank content is thoroughly filtered at least every three hours, the oil is kept free from all contaminants and does therefore not have to be replaced. The expensive hydraulic machinery, now continuously running with clean oil remains in top condition, because none of the components is affected by contaminant particles.

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