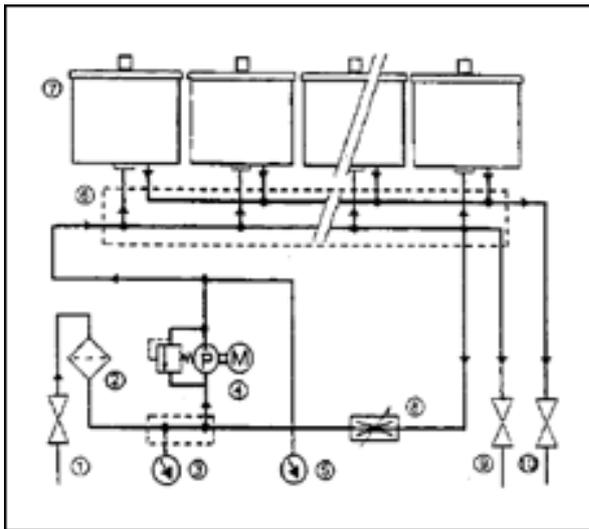


mobile Filtration Station

Types of ON series 180 - 240

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.



Installations Schema

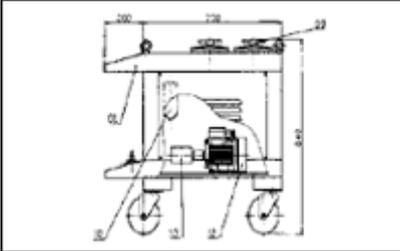
An ECOFIL filtration system of the ON-series consists of a number of first class steel filter housings of the T 30 type, connected to a pump and motor unit. The system is equipped with a prefilter to protect the pump from being blocked when sucking in too large contaminants. A vacuum meter is installed to verify if oil is running through the system. An additional bypass duct, equipped with a needle valve allows the user to adapt the oil flow to any viscosity of oil in order to guarantee the constant filtration of small quantities of oil under low pressure, the conditions to be fulfilled in order to obtain adequate depth filtration. A pressure gauge indicates when pressure in the filter housings has built up. This means that the cartridges are saturated with contaminants and need to be replaced. A drain is added to empty the system for maintenance or transportation. The complete system is standard built in a steel frame, equipped with four swivel wheels for easy relocation. The ON series are built in five standard sizes, with filter housings set up two in a row, but they can of course also be delivered in any other size or setup, exactly according to the customer's specifications. The filter capacity of the different oil cleaners of the ON series logically grows with the number of filter housings installed.

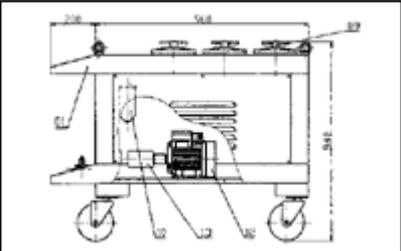
Installation

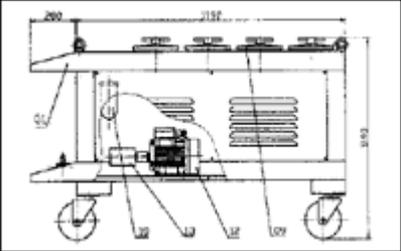
The "IN" and "OUT" hose of the ON series are simply connected to the oil reservoir. The pump sucks in the oil and pushes it through the filter housings. The clean oil is returned to the tank.

Before starting the installation, always make sure that a filter cartridge of the required type is inserted in each filter housing and that all lids are properly closed. Check the motor and eventually change the electrical feed to **110V** if required. Carefully follow the instruction from the manual. Connect the hoses to the "IN" and "OUT" connections. The sucking hose should preferably be not longer than 5 meters and the return hose should always be about 1 meter shorter than the sucking hose. Put the suction hose deep into the tank, avoiding however eventual bottom sludge, and the return hose just below the oil surface.

Looking from the side where the valves and meters are situated, take off the right side plate and turn the needle valve against the clock until it is completely opened. Open the inlet valve and the return valve. Close the drain valve and connect the installation to the power. Switch the installation on for not longer than 10 to 15 seconds in order to check the direction of rotation of the motor. Looking at it from the pump's side the motor should run against the clock. If it is turning the wrong way, immediately turn off the machine and change the phases of the wiring in the connection box at the motor or in the plug. To have the motor running in the wrong direction for too long may cause damage to the installation. Turn the installation on again and slowly close the needle valve (clockwise) until the pressure gauge reads ca. 2 bar. Let the installation run for about 10 to 15 minutes, until all the air is out and the oil cleaner is completely filled with oil. During this process, it is advisable to let some air out through the drain valve at regular intervals. Close the outlet valve and then slowly adjust the needle valve until the pressure gauge reads a pressure of 5 bar. Now completely open the outlet valve. Pressure will drop to a much lower level, and the machine is now ready for fine filtration.

Type	ON 120	The ON 120 consists of four first class steel filter housings, set up two by two, a pump, motor, and all other equipment as described above. This installation has a filter capacity of 12 liters per minute and is strong enough for a tank capacity of 4,000 liters.	
num. of product	3151		
number of filterhouses	4 x T 30		
outside measure	570 x 760 x 740 mm		
weight	97 kg		
max. tank capacity	4.000 l		
normal flow	12 l/Min		
connection in	3/4 "		
connection out	3/4 "		
max. oil temperature	3/8 "		
range of viscosity	100 ° C		
feed	9 – 220 cSt		
motor	220 V0,55 kW		
filter cadridge	T 301, H 301, WG 301		

Type	ON 180	An ON 180 consists of six first class steel filter housings, a pump, motor, and all other standard ON equipment. The filter capacity goes up to 18 liters per minute and cleans any tank with a content of maximum 6,000 liters.	
num. of product	3152		
number of filterhouses	6 x T 30		
outside measure	570 x 1000 x 740 mm		
weight	123 kg		
max. tank capacity	6.000 l		
normal flow	18 l/Min		
connection in	3/4 "		
connection out	3/4 "		
max. oil temperature	3/8 "		
range of viscosity	100 ° C		
feed	9 – 220 cSt		
motor	220 V1,1 kW		
filter cadridge	T 301, H 301, WG 301		

Type	ON 240	The ON 240 contains eight first class steel filter housings, built in two by four, a pump, motor, and all other ON equipment. It cleans tanks not larger than 8,000 liters and has a filter capacity of 24 liters per minute.	
num. of product	3153		
number of filterhouses	8 x T 30		
outside measure	570 x 1240 x 740 mm		
weight	158 kg		
max. tank capacity	8.000 l		
normal flow	24 l/Min		
connection in	1 "		
connection out	1 "		
max. oil temperature	1/2 "		
range of viscosity	100 ° C		
feed	9 – 220 cSt		
motor	220 V1,1 kW		
filter cadridge	T 301, H 301, WG 301		

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