



Manitou **FILTRATION** **OUR RECOMMENDATIONS**

MANITOU filters: a range of high quality, high-performance filters.

MANITOU filters are perfectly suited to your machine's needs. Designed specifically, MANITOU filters are developed and qualified for your machine type. Compatible with your working environment, they ensure maximum efficiency.

MANITOU parts claim superior qualities and allow engines to withstand very variable atmospheres: humidity, dust, high and low temperatures, and significant internal stresses (extreme temperatures, flow, high pressure, etc.).

You now have access to more than 750 items, in order to offer you a longer service life, MANITOU filters have a high resolution filter medium, with the finest filtration, and a bigger filter surface than a standard filter.

With their high dust and particle retention capacity, they protect key components of your forklift against damage and ensure the longevity of your machine.

Replacement frequency

- To maintain the original qualities of your MANITOU machine, it is essential to follow the filter replacement intervals.
- Simplify servicing and enjoy all the advantages of MANITOU's know-how by subscribing to a service contract.
- Find out more.

	Daily -10 hrs	1 year - 500 hrs	1 year - 1000 hrs
Pre-filter clean	Clean		
Air filter clean		Replace	
Air filter safety cartridge			Replace
Fuel filter		Replace	
Engine oil filter		Replace	
Transmission oil filter		Replace	
Hydraulic fluid return filter		Replace	
Hydraulic pump filter		Replace	

- Indicative data may vary according to model type. Always refer to the specific service manual for each machine. Consult your MANITOU dealer.



Why choose MANITOU filters?

Because they ensure:

- Quick and easy installation on your machine.
- Economy: less frequent replacements.
- Security: performance matches your machine.
- Rapid delivery time: international logistics and network.
- Manufacturer's guarantee.

Oil filter

The oil filter is essential to the proper functioning of the engine. It continuously traps external impurities (dust, sand, volatile elements, etc.) and internal impurities (carbon deposits and engine wear particles) and plays an active part in cleaning the engine.

Why change the oil filter?

If you do not replace your filter regularly, there is a high risk of clogging, resulting in poor lubrication and premature wear of your engine.

Fuel filter

The quality choice: As well as filtering out impurities, MANITOU fuel pre-filters are involved in extracting water contained in the diesel. Water is heavier than oil and separates out into the pre-filter's water tank. The diesel, which is lighter, is filtered, then directed to the main filter. Reliable separation of water and diesel helps to extend the service life of the engine's sensitive components (injection pump, fuel injectors) by protecting them from corrosion. The main filters have a high capacity to filter out the finest particles, meeting the increased requirements of the new motorization standards.

MANITOU fuel filters incorporate in the same system filtration, water separation, heating and cooling down of fuel. Our fuel filters are guaranteed to be pressure-resistant, even in the lowest temperatures, or during startup. In all circumstances, they ensure a supply of clean fuel.

Why change the fuel filter?

A well-maintained fuel filter is essential for proper functioning of the engine. It ensures protection of all the engine's components and long-lasting performance of your MANITOU machine. It also has a positive impact on fuel consumption. For the proper functioning of your engine, your fuel filters should be changed every year or every 500 hours of service.

Hydraulic filter

The hydraulic oil circuit involves more than 100 litres of oil. Hydraulic oil filters are important, because they act as the machine's kidneys. The slightest particle of contamination, such as sand, welding spatter, fibres, particles of metal or even rust may damage a pump and the components of the hydraulic system. Hydraulic filters are usually installed on the return-to-tank circuit in order to capture the impurities generated or introduced into the circuit. Failure to adhere to the hydraulic filter changing schedule may lead to malfunction, premature wear, or even breakage of components. MANITOU has developed the performance of its filters by offering you a "High-Efficiency" hydraulic cartridge for an improved filtration quality. These cartridges increase filtration capacity for enhanced protection of your components.

Air filter

The function of the air filter is to protect your engine from attack by external contaminants. An engine can take in up to 500 cubic m^{etres} of air every hour. That air is more or less contaminated with impurities, depending on the environment (the country, climate, season, area of development). This contains dust, which eventually forms an abrasive paste that threatens the engine's functioning. It is recommended to wash the air filters very regularly, and to replace the main filter every six months (500 hours) and the safety filter every 12 months (1000 hours).

Why change the air filter?

An air filter that is clogged or in poor condition may cause malfunctions and therefore premature wear of the engine. Loss of vehicle performance. Increased fuel consumption. Increased emission of polluting gases. To maintain the MANITOU performance level, replacement and servicing schedules must be adhered to. Carrying out preventive maintenance ensures cost efficiency!



FILTER KIT for the maintenance of your machine after 500 hours and 1000 hours

Specially adapted to your machine, the filter kit contains all the elements needed for the regular maintenance of your MANITOU machine (except oil). In accordance with the manufacturer's recommendations, it is a complete pack, with peace of mind guaranteed and an attractive price.

The 500-hour kit contains:

- Oil filter
- Air filter
- Gasoline pre-filter
- Gasoline filter
- Transmission filter
- Hydraulic filter

(Standard kit, excluding specific machine, may vary according to machine. Always refer to MANITOU operating instructions).

The 1000-hour kit contains:

The same as the 500-hour kit + 1000-hour specific additions:

- Safety cartridge
- Air filter

Examples of filter kits according to your MANITOU machine:

Advice

There are more than 253 items to cover almost 126 types of machine:
CONTACT YOUR DEALER, TO BE SURE TO FIND A KIT THAT SUITS YOUR NEEDS!

MLT	pack	Kit 500 h	DEUTZ Engines	MLT 634 120 ST3B / MLT 634 120 PS ST3B / MLT 735 100 ST3B / MLT 735 120 ST3B / MLT 735 120 PS ST3B / MLT 741 100 ST3B / MLT 741 120 ST3B / MLT 741 120 PS ST3B	947843
		Kit 1000 h			947868
	pack	Kit 500 h	KUBOTA Engines	MLT 625-75 H ST3B / MT 625 H COMFORT ST3B / MT 625 H TURBO ST3B	958519
		Kit 1000 h			958534
	pack	Kit 500 h	JOHN DEERE Engines	MLT 840 137 ST3B / MLT 840-115 PS / MLT 840-137 PS	947858
		Kit 1000 h			947883
pack	Kit 500 h	PERKINS Engines	MLT 737 130 PS D ST4 S1 / MLT 635 130 PS D ST4 S1 / MLT 733 105 D ST4 S1 / MLT 733 105 D ST4 S1 TRACT	959717	
	Kit 1000 h			959718	
MT	pack	Kit 500 h	DEUTZ Engines	MT 732 ST3B / MT 732 ST3B / MT 932 ST3B	947859
		Kit 1000 h			947884
	pack	Kit 500 h	PERKINS Engines	MT 1440 PRIVILEGE / MT 1440 EP PRIVILEGE / MT 1840 PRIVILEGE / MT 1840 EP PRIVILEGE / MT-X 1840 / MT-X 1440 E3 / MT-X 1840 E3	947847
		Kit 1000 h			947867
pack	Kit 500 h	PERKINS Engines	MT835 ST3B / MT835 ST3B / MT1135 ST3B / MT1335 ST3B	958443	
	Kit 1000 h			958444	
M	pack	Kit 500 h	PERKINS Engines	M26-2 ST3B / M30-2 ST3B / M26/30-4 ST3B / M40/50-2 ST3B / M40/50-4 ST3B	958333
		Kit 1000 h			958338
MI	pack	Filter kit 500H	YANMAR Engines	MI 20 D S2 / MI 25 D S2 / MI 30 D S2 / MI 35 D S2	958524
		Filter kit 1000H			958539
ATJ	pack	Filter kit 500H	KUBOTA Engines	180 ATJ RC E3 / 160 ATJ PLUS Euro 3 / 180 ATJ Euro 3 / 180 ATJS Euro 3	947854
		Filter kit 1000H			947879

Advice

Manitou cares about the maintenance of your machine: subscribe to a Comfort service contract, see chapter Services & Solutions.

How to recognize MANITOU genuine filter ?

MANITOU oil filters, with genuine quality, have a higher dirt holding capacity. With a longer service life, genuine filters are three times more resistant to mechanical loads. Genuine oil filters are also equipped with a bypass valve to ensure lubrication and avoid oil leakage and risks of total engine failure.



MANITOU genuine filter

1. Defined pleat spacing, high pleat stability and approx. 15% more filter surface area.
2. Reliable and accurate sealing.
3. Correct valve opening pressure for the application.
4. The middle tube is perfectly stamped from one piece of sheet metal.



Non-genuine filter

1. Reduced dirt holding capacity through wavy filter media and smaller surface area.
2. Low dimensional accuracy leads to leakage.
3. Valve opens prematurely and unfiltered oil reaches the engine which in the worst case can lead to total engine failure.
4. The middle tube consists of pieces of sheet metal wound diagonally. Rough metal seams can damage the filter paper and cause leakage.



TURBO Pre-filter

Pre-filter with Cyclone technology: captures up to 98% of impurities in the air before it enters the main air filter. Self-cleaning system: maintenance-free. For diesel engine power 18 to 186 kW.

- Increases service life of main air filter
- Reduces maintenance costs.
- Simple, rapid installation.
- Large air inlet surface area.

Specific features of Turbo II:

- Stainless steel.
- Black galvanized paint.
- Proven toughness.

Specific features of Turbo III:

- Nylon coating for exceptional durability.
- Excellent resistance to vibrations and temperature (110°C).

Model 3' - 35 to 93kW (Turbo II)	160946
Model 4' - 35 to 93kW (Turbo II)	223510
Model 4.5' - 88 to 132kW (Turbo II)	160947

Model 3' - 18 to 93kW (Turbo III)	744588
Model 4.5' - 73 to 186kW (Turbo III)	906126

Advice

Feel free to ask your MANITOU dealer for advice.



Cyclone pre-filter

Essential attachment for better air filtration in dusty or humid atmospheres.

- Reduces fuel consumption.
- Reduces clogging of air filters

224713



Air Pre-Filter

Self-cleaning pre-filter:

- Continuous removal of impurities: maintenance-free.
- Specially developed for difficult weather conditions.
- Reduces fuel consumption and increases service life of air filters.

Self-cleaning pre-filter for MT, MLT and M/MC.

226611

Self-cleaning pre-filter for TMT, CD/CG, MSI.

240334



Pre-Filter Tank

Reserve tank for pre-filter ref. 224713.

224927



Fuel filter funnel

Filters out impurities in the fuel during decantation. It separates the water and filters out various hydrocarbons, such as diesel, kerosene, petrol and oil.

- 3 different outputs.
- Filtration 50 pm.

11 l / min

787211

17 l / min

787212

22 l / min

787213



Water/gasoline separator decanter filter

Filters the gasoline and separates the water into a bowl to protect the injection elements (pump and injectors).

- Transparent bowl to check the presence of water and the need for draining.
- Process facilitated by purge screw or valve.

For example, refer to your Manitou dealer to fit the specific model to your machine.

254843

Advice

Refer to your instruction manual to find the model specific to your MANITOU machine. Your dealer is there to help you. Don't hesitate to ask for advice.