



## **Katadyn Microfiltration**

**Water Treatment with Katadyn Ceramic Filters**

Mobile Filter Units

## Katadyn MOT Filtration System - Your Benefits:

- ⇒ Mobile application
- ⇒ Reliable purification and filtration of water
- ⇒ Robust design
- ⇒ Filters are easily cleaned with a brush
- ⇒ Low maintenance costs
- ⇒ Autonomous system, no electricity or other infrastructure required
- ⇒ Incl. gasoline engine, 4-stroke
- ⇒ Incl. connecting hose and connections
- ⇒ Incl. suction hose with strainer
- ⇒ Valves made of chromium-plated brass
- ⇒ Filter housing material AISI 304/DIN 1.4301



Filter type	MOT-7	MOT-31	MOT-54
Amount of Filter elements	7	31	54
max. Flow	24 L/min	106 L/min	185 L/min

## Water Treatment by Microfiltration with Katadyn Ceramic Filters

The look and taste of water, however clear and fresh it may seem, can be deceiving. Only reliably purified water is hygienic and safe. Katadyn filter elements offer this security thanks to the combination of microporous ceramic and silver.

The microporous ceramic filter elements of Katadyn have an average pore size of 0.2  $\mu$  (micron) = 0.0002 mm. They safely remove from the water suspended solids and agents of water borne diseases such as typhoid, dysentery, cholera, amoebic, giardiasis and cryptosporidiosis.

Benefits of Katadyn ceramic filters:

- Safe and reliable treatment as well as clear filtration of water
- Ecological and simple process without the use of chemicals. The natural taste and mineral content of the water are retained.
- Effectiveness is independent of water quality.
- Filter elements are easily regenerated by simply brushing their surface. This results in a longer life span and therefore a cost-effective operation.
- Filter elements are suitable for operation after ozone.

## Longitudinal Cut of a Self-Cleaning Katadyn Filter Element

Microporous ceramic filter element

-> removes water suspended solids and agents of water borne diseases

Finely distributed silver, incorporated in the ceramic structure

-> prevents bacteria from growing through the pores of the ceramic

-> cleans the filter element continuously

Filling with Katadyn silver quartz

-> acts against potential infections from the outlet side

Katadyn filter elements are unique and offer a high level of safety. No chemicals are needed for the cleaning process.

Only the self-cleaning original Katadyn filter elements prevent harmful bacteria growing through the pores of the ceramic even after years of operation.



## Features Katadyn Filter MF

- Pore size: 0.2  $\mu$  (micron)
- Design pressure: 6 bar
- Water temperature at continuous operation: 5° to 60° C
- Katadyn microfilters meet the industry standards for the removal of bacteria (99.9999%\* *Klebsiella terrigena*) and protozoa (99.9%\* *giardia* and *cryptosporidiosis*).
- Numerous special army units and relief organizations around the world rely on Katadyn products for survival and lifesaving.
- Katadyn filters pass the challenging EPA protocol for the removal of bacteria and protozoa (99.9999% bacteria = 6-log reduction, 99.9% protozoa (preferably *Crypto*) = 3-log reduction)

## Tests

- Bachema AG, Switzerland, 01.07.2010 - *Raoultella terrigena*, *Salmonella typhimurium*, *E.coli*
- Bachema AG, Switzerland, 07.12.2004 - *Pseudomonas aeruginosa*
- Food & Environment Control Center, Abu Dhabi, 16.02.1992 - *E.coli*,
- *A.aerogeneses*, *Klebsiella spp.*, *Pseudomonas spp.*

## Applications

### Beverage industry

Table water, rinsing water, process water

### Food industry

Process water, rinsing water

### Milk processing

Process water for dairies, cheese-making

### Agriculture

Water for cattle breeding and cattle fattening

### Mountain restaurants, alpine huts

Drinking water, dish-washing water

### Navigation, platforms

Drinking water, rinsing water

### Civil defense, army

Drinking water, emergency water supplies

### Drinking water

Ground water, spring water, surface water



## Honda WH 20X High Pressure Pump

The high-pressure pumps of the Honda WH series are equipped with the durable and rugged Honda GX engines. The powerful engine and the solid housing allow a high outlet pressure for water capacities up to 500 L/min.

Capacity (L/min)	500
Capacity (m <sup>3</sup> /h)	30
Suction head	8 m
Connections	2"
Engine	OHV GX 160
Power output	3.6 kW
Nominal rotation speed	3600 U/min
Fuel tank capacity	3.1 L
Consumption (L/h)	1.6
Dimensions (LxWxH)	435 x 375 x 400 mm
Weight	23.5 kg



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