



# CERAMIC MICROFILTRATION BROCHURE

The science of clean water

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When it comes to drinking water, no one wants to gamble with safety. Even water that looks and tastes clean can contain harmful bacteria. The only way to ensure it's safe, is to purify it with a proven system. Katadyn multi-filter systems feature filter elements which use a unique microporous ceramic to dependably filter water – and offer significant peace of mind.

A variety of different water treatment processes (freshwater/seawater) can be found in the Katadyn Water guide.

## A PART OF YOUR NATURAL PROCESS



### BOTTLED BEVERAGES: RETAIN TASTE AND MINERAL CONTENT

Because it doesn't use chemicals like other filtration methods, the Katadyn multi-filter system doesn't affect taste or impart an odor, making it ideal for drinking, processing, food preparation and more. It is particularly well-suited for natural mineral water bottles; the process maintains the natural taste and mineral content of water, allowing them to conform to strict labelling regulations.



### FOOD PROCESS

Ceramic filters have many agricultural applications and are used to provide safe, great tasting water to dairies, cheese-making facilities, wineries and other operations looking to enhance their operations in a bio friendly consumer market. Katadyn multi-filter systems are used in livestock-based farming such as cattle breeding and fattening operations.



### EASY, LOW-COST OPERATION

Katadyn multi-filter systems are available in a variety of configurations for wall or floor mounting along with integrated pump units with steel pallet or portable frame mounted options to suit a wide range of locations and applications. The Katadyn filter element design also allows customers to recondition the filter with new ceramic for optimal performance while reducing waste.



CLEAN -- SAFE -- PURE



#### THE KATADYN FILTER ELEMENT

Finely distributed silver is incorporated into the ceramic structure, preventing bacteria from growing in the pores, acting against potential infections from the outlet side, and continuously protecting the filter element. With an average pore size of 0.2 micron or 0.0002mm, the microporous ceramic filter elements safely remove suspended solids as well as waterborne bacteria such as typhoid, dysentery, cholera, amoebic, giardiasis and cryptosporidiosis.



#### EFFECTIVE AND RELIABLE

Katadyn filter elements are known throughout the world for their safe and long-lasting operation in a wide variety of applications from the outdoors to homes to community or commercial locations and processes. The simple mechanical process requires no electrical power, making it an ideal solution for mobile and remote applications. Filter elements can be regenerated simply by brushing their surface, ensuring a long life and cost-effective operation.



#### CLEAR AND NATURAL FILTRATION

The eco-friendly process doesn't use chemical additives. It retains the natural taste and mineral content of water, making it ideal for water bottling and beverage production. The Katadyn multi-filter systems are also excellent at removing all visible particulates without adding any fibers from the filtration process. The simple mechanical process requires no electrical power, making it an ideal solution for mobile and remote applications.

# SAFE, CLEAN WATER – ANYWHERE YOU’LL NEED IT



## MOBILE OPTIONS IN RUGGED CONDITIONS

From clean drinking water to emergency water supplies, the Katadyn multi-filter system purifies water from local sources. The Katadyn filters have met the EPA Protocol for 6 log Bacteria and 3 log protozoa (Crypto) removal. This proven mechanical filtration provides safe drinking water quickly and easily, eliminating the logistics and environmental impact of bottled water delivery. And because it doesn't need electricity, it has virtually unlimited applications in the field.



## ENHANCED CUSTOMER SAFETY

For buildings and operations that are independent of central waterworks, the Katadyn multi-filter system is a dependable option for at-site disinfection, providing safe, clean drinking water to mountain restaurants, alpine huts, islands and other remote locations.



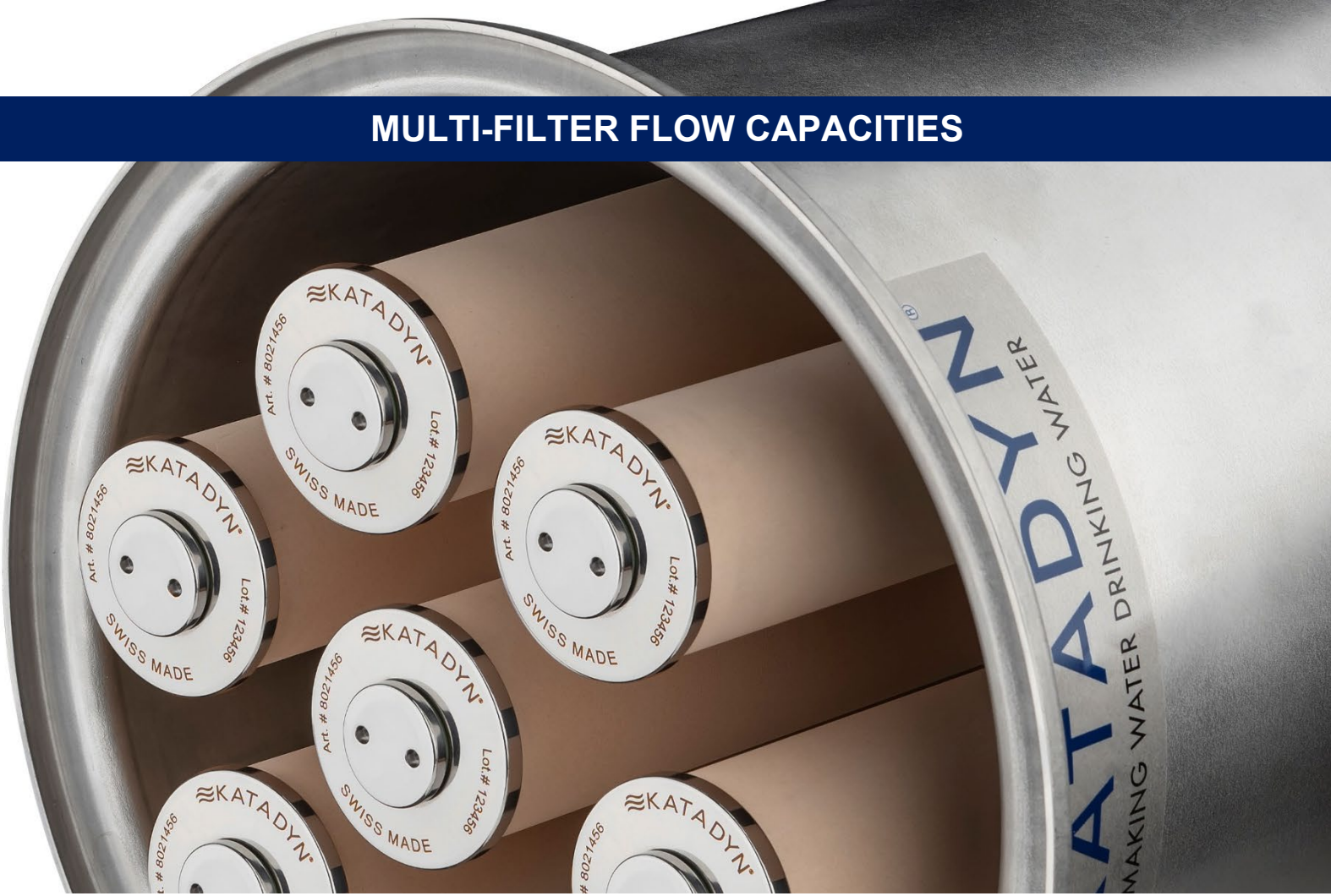
## DRINKING WATER

Our Katadyn filter elements can process water from any source without changing its taste or mineral content. Ground water, surface water, spring water and more can all be purified without affecting flavor. These filters are used throughout the world for disaster relief and improving the quality of life for people without access to a central water utility supply grid for clean and safe water.



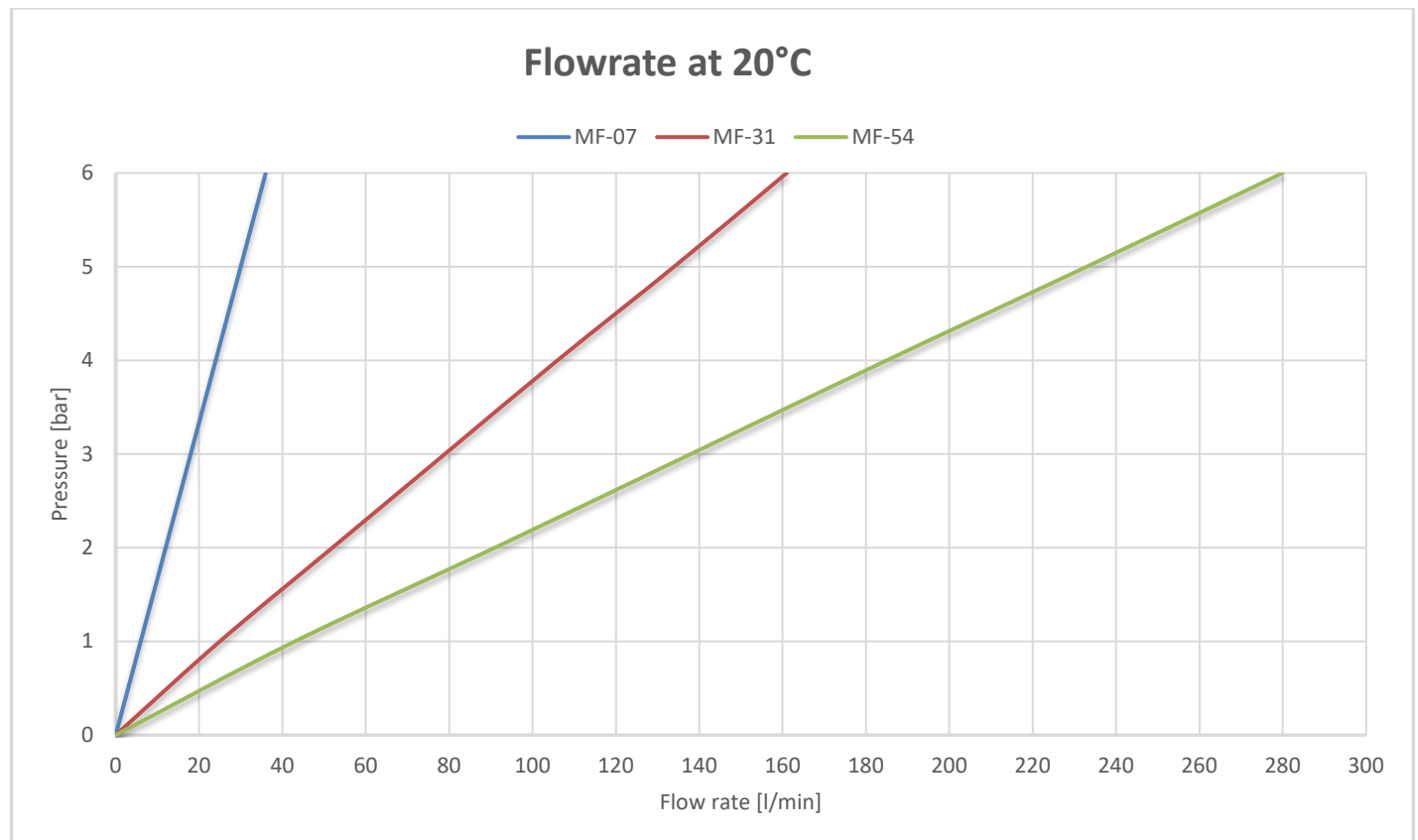


## MULTI-FILTER FLOW CAPACITIES



### KATADYN FILTER ELEMENTS NO. 5

(for >6 log bacteria / >3 log protozoa removal, specified types)



## TECHNICAL FACTS



TYP	MF-7	MF-31	MF-54
Flow (l/min) @ 4 bar	24	106	185
Filtration effect (micron) nominal)	0.2	0.2	0.2
Design pressure (bar)	6		
Water temperature	5 – 60°		
Housing			
Ceramic filters (No. Of Elements)	7	31	54
Housing material	1.4404 1.4408	1.4301 1.4404 1.4408	1.4301 1.4404 1.4408
Weight (dry) kg	15	130	180
Weight (wet) kg	22	180	240
System dimensions			
Height mm	604	1159	1150
Diameter mm	378	613	750
Connections (Inlet/Outlet)	¾"	G 1 ¼"	G 2"
Installation Mounting	Wall Bracket	Floor / support legs	Floor / support legs
Other Configurations	Portable (MOT)	Portable (MOT)	Portable (MOT)
	Military MOT		
Filter housings equipped with	Non-return-valve on water outlet		
Options:			
Connections	Inlet and outlet connections made from stainless steel (including inlet tap for untreated water, flush valve, outlet tap with sampling valve for treated water)		
Cleaning brush	Standard with nylon brush segments, brass or nylon replacement segments available		
Ceramic filter elements			
Number 5, 0.2 micron 3.4 l/min (4bar) Lifetime per filter element	Self-Disinfecting Silver Quartz core / stainless steel frame ~100'000 Liter		
Number 55, 0.2 micron 3.4 l/min (4bar) Lifetime per filter element	Without silver quartz core, stainless steel frame ~100'000 Liter		
Number 6, 1.0 micron 22.4 l/min (4bar) Lifetime per filter element	Pre-filter, stainless steel frame ~100'000 Liter		

# KATADYN GROUP

SWITZERLAND

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EMERGENCY FOOD ALPINEAIRE™ TREK'N EAT  
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