

miezu

Water purifier

Jan11, 2024



Kletos
KLETOS INC.

MIEZU mz100

Major benefits of backwashing!

- The filter life extended greatly by washing!
- The cost for 3 years is the lowest price compared to the equivalent product.
- The filter washing function keeps filter clean and sanitary
- Meets Japanese Standard JIS S 3201
- Filtration flow rate: 1.6L/min
- Filter life: 1,800 L of water filtration
- Removes 21 hazardous materials

Purified Water



**Back
Washing**

Filter with dirt
can be cleaned

Please watch the video below for further explanation with English translator apps.

<https://www.youtube.com/watch?v=b6yngLu1ym4&t=57s>

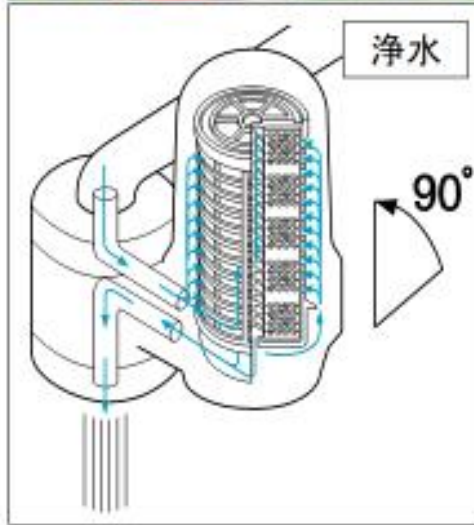
(Reference) Filter washing

The filter is washable and always clean ! !

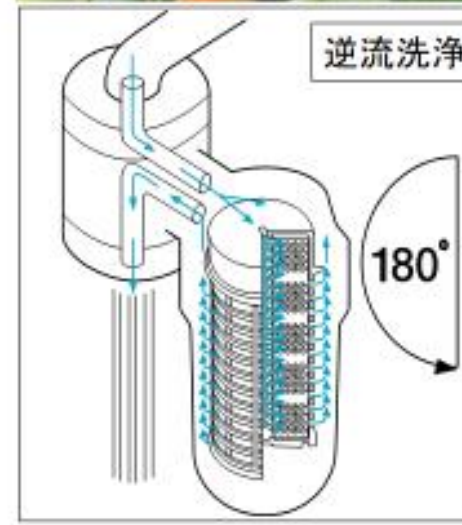
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Tap water



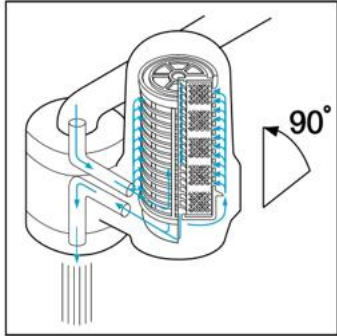
Purifying water



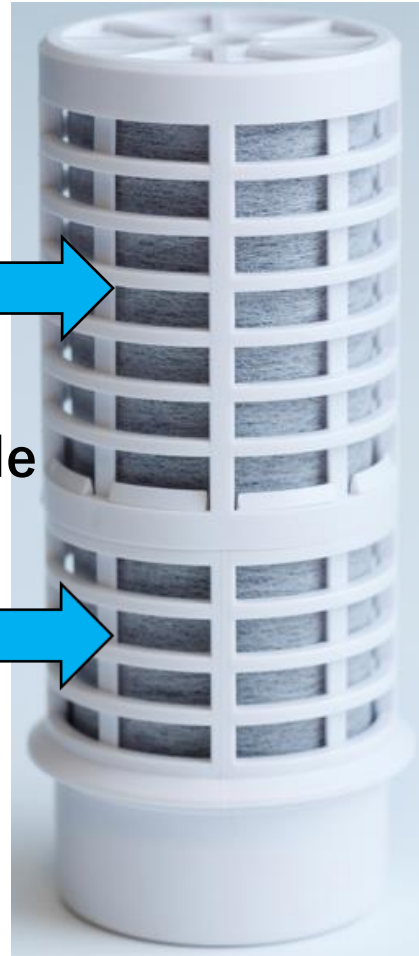
Filter washing
(30 seconds a day only)

Water flow

Purifying



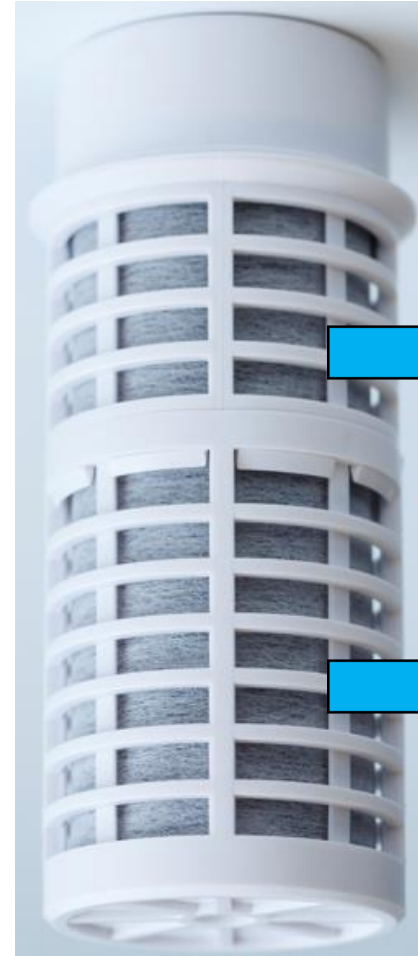
From outside



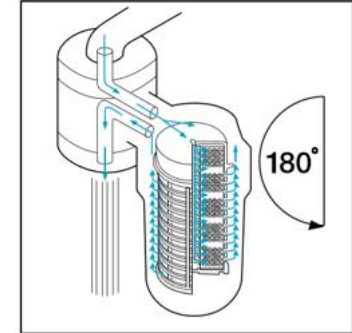
Through inside



From inside



Through outside



Backwashing

Cleaning process only for 30 seconds

3 fineness' of ACTIVATED CARBON

Reference



Particulate

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Block-shaped



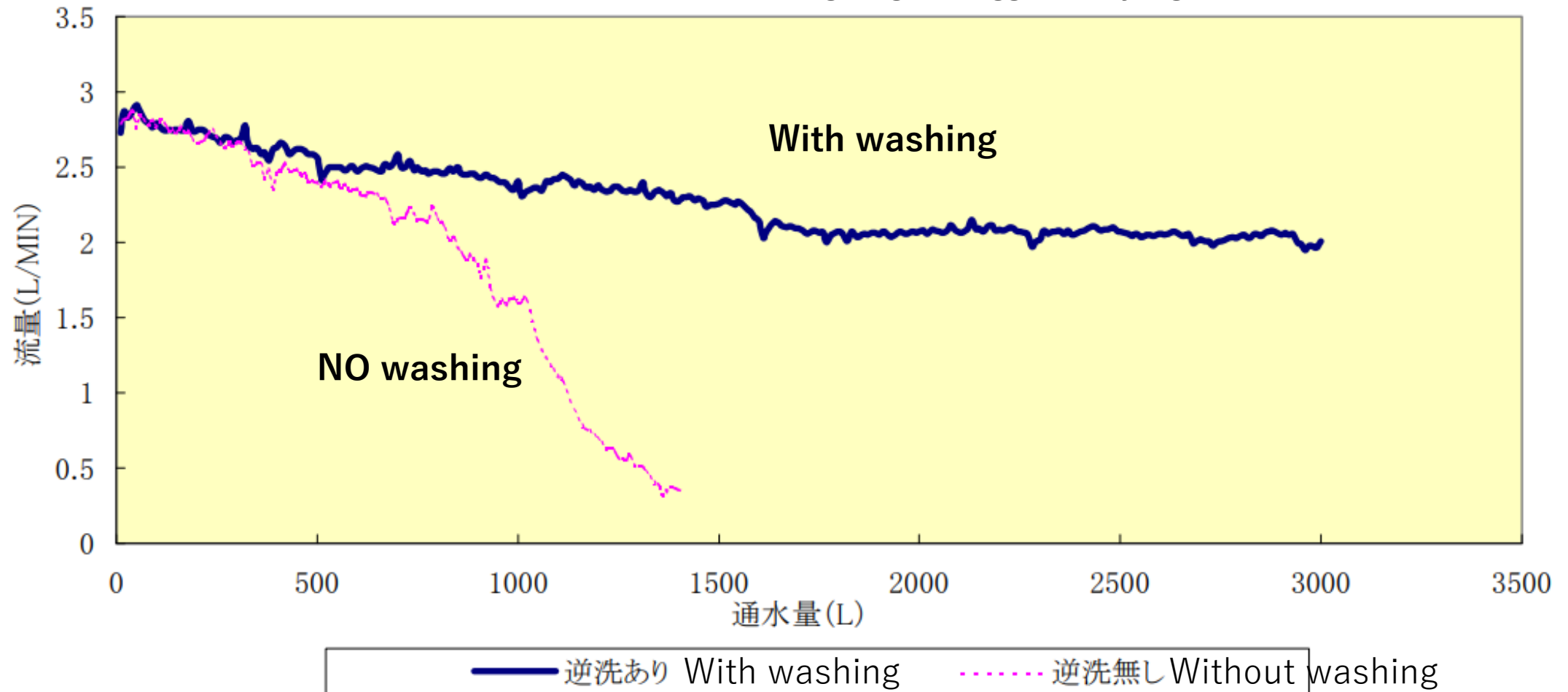
Granular

(Reference) Clog comparison test

Clog test with and without washing filter (A place with poor water quality)

逆流洗浄する場合としない場合の目詰まり比較テスト

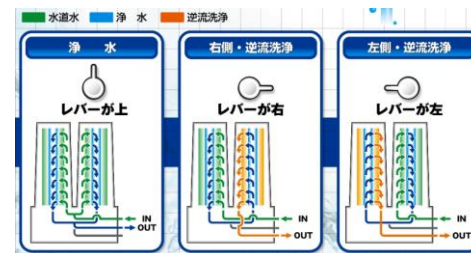
- Inspection date: November 1st to November 12th, 1997
- Measurement area: Lingdong, Huanggu, Shenyang, China



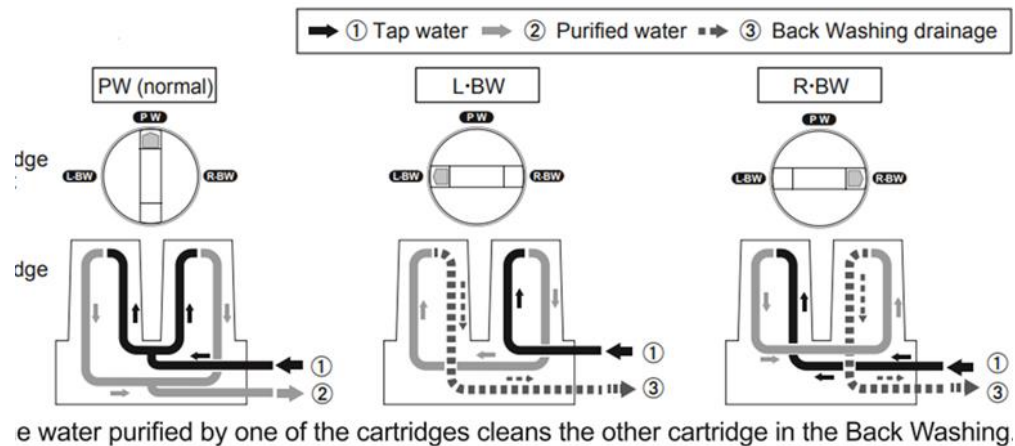
MIEZU C mz200

Eliminate clogging by alternate purified water backwashing!

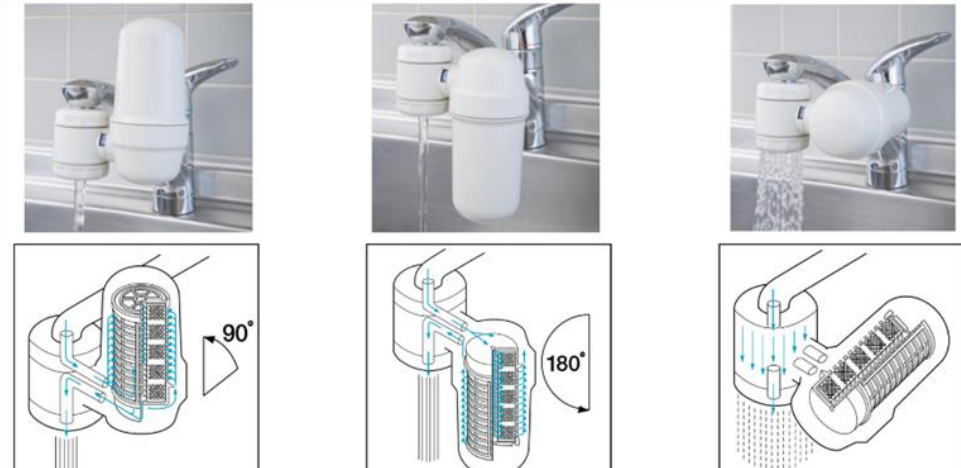
- Removes bacteria with activated carbon and hollow fiber membrane
- flow rate : 12,000 L
- Clogging prevented
- Removes 18 hazardous materials



Alternate filter washing mz200

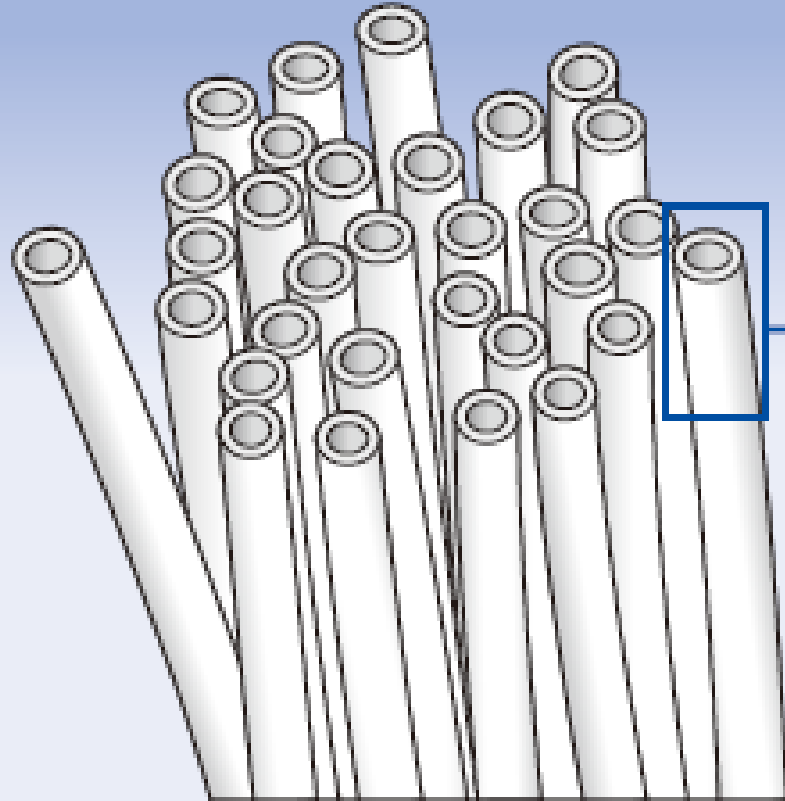


Filter washing mz100



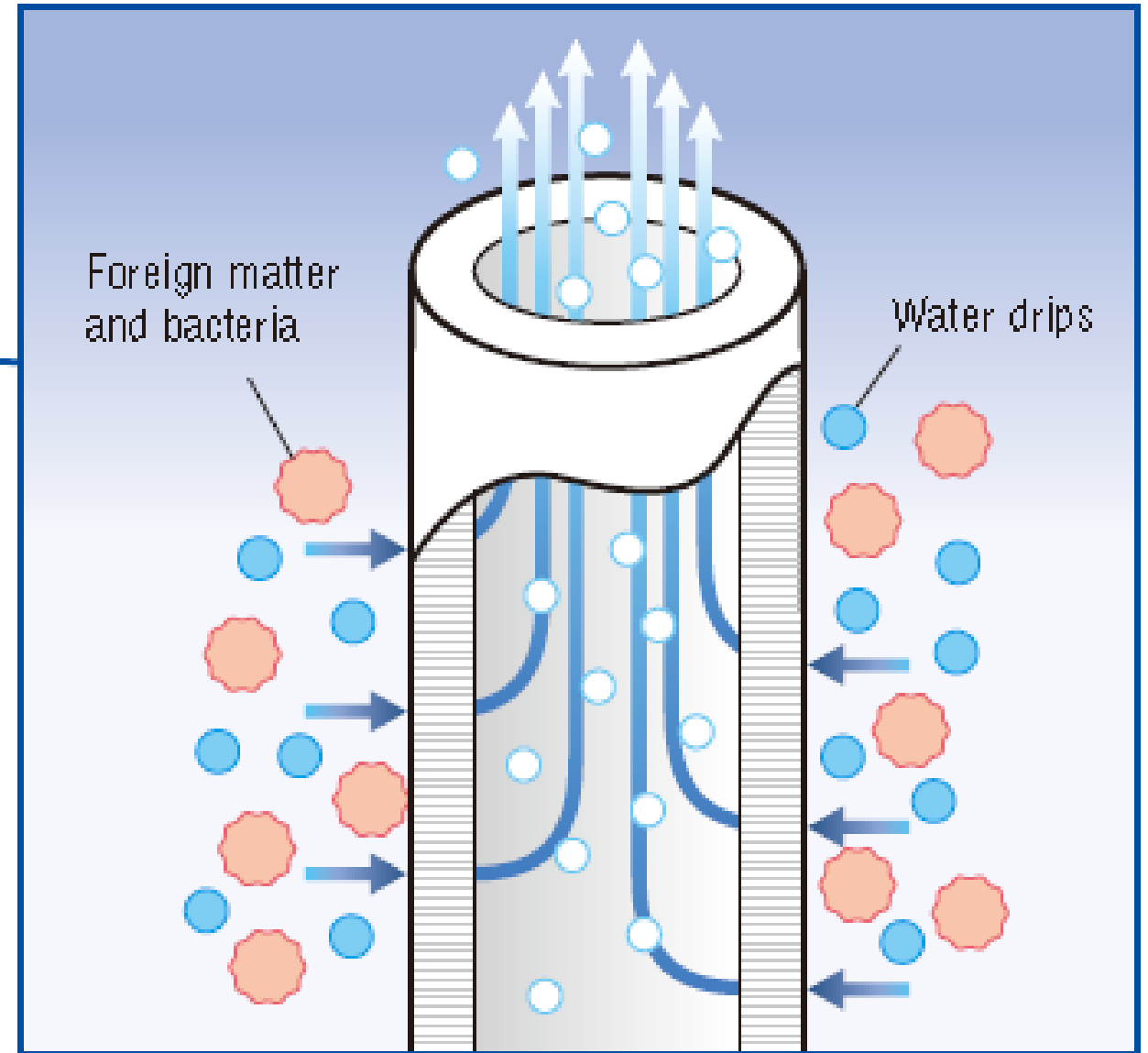
****Double filter of mz200 enables alternate filter washing which clears cartridge clogging and prevents deterioration of water quality even when the tap water is much turbid.**

What is a hollow fiber membrane?



An aggregate of hollow fibers (like straws)
The surface is porous with many fine holes.

Mechanism of filtration



Filtrates minute foreign matter, bacteria, and water

3. Comparison of performance of water purifier by components

Features of water purification method		Corresponding substance				Features		
		Turbidity (mud, rust, bacteria)	Residual chlorine	Volatile Organic Compounds	Contaminants (pesticide, wastewater)	*① Filtration flow rate	Electric power	Minerals
Size of activated carbon contact area: fine grain> granular> block		Discomfort, causes of illness	chlorine odor	Carcinogenic risk, etc.	Harmful to human body			
Activated carbon	Particulate (wet)	O	O	O	X	O 1	—	O
	Granular (dry)	△	O	O	X	O 1	—	O
	Block-shaped	X	O	O	X	O 1	—	O
Hollow fiber membrane		O	X	X	X	△ 0.7	—	O

※ *①Filtration flow rate: This shows amount of purified water produced per tap water.

5. 3-year cost comparison

Water faucet type	Product	Filter	Water purification method		Published filter life		Clogging coefficient				3-year Water consumption	Filter	3-year	Filter	3-year comparison(calculation)		
	Price	Price	Main material		Washing	No washing						Washing	Capacity	filter	life	Product+Filter	
	JPY	JPY	Activated carbon	H.F.Membrane		Month	Month	A.Carbon	Membrane	Washing	Total	L	L	number	Month	X 3-year used number	JPY
① Clean water																	
KLETOS mz100	9,000	4,000	Particulate (wet)	—	Washing	3	6	1.00	1.00	1.00	1.00	10,950	1,800	6.08	5.92	9000 + 4000 x (6.08-1)	29,320
Philips AWP3704	13,245	5,372	Granular (dry)	—	none	6		1.00	1.00	1.00	1.00	10,950	1,000	10.95	3.29	13245 + 5372 x (10.95-1)	66,696
Panasonic TK-CJ11	11,686	6,800	Granular (dry)	○	none	12		1.00	1.00	1.00	1.00	10,950	4,000	2.73	13.19	11686 + 6800 x (2.73-1)	23,450
Mitsubishi CSP-901	6,120	2,500	Granular (dry)	○	none	3		1.00	1.00	1.00	1.00	10,950	900	12.16	2.96	6120 + 2500 x (12.16-1)	34,020
TORAY MK308T	10,853	3,230	Granular (dry)	○	none	2		1.00	1.00	1.00	1.00	10,950	600	18.25	1.97	10853 + 3230 x (18.25-1)	66,571
②Turbid water																	
KLETOS mz100	9,000	4,000	Particulate (wet)	—	Washing	3	6	0.80	1.00	1.00	0.80	10,950	1,440	7.60	4.74	9000 + 4000 x (7.6-1)	35,400
Philips AWP3704	13,245	5,372	Granular (dry)	—	none	6		1.00	1.00	0.70	0.70	10,950	700	15.64	2.30	13245 + 5372 x (15.64-1)	91,891
Panasonic TK-CJ11	11,686	6,800	Granular (dry)	○	none	12	*	1.00	0.70	0.70	0.49	10,950	1,960	5.58	6.45	11686 + 6800 x (5.58-1)	42,830
Mitsubishi CSP-901	6,120	2,500	Granular (dry)	○	none	3		1.00	0.70	0.70	0.49	10,950	441	24.83	1.45	6120 + 2500 x (24.83-1)	65,695
TORAY MK308T	10,853	3,230	Granular (dry)	○	none	2		1.00	0.70	0.70	0.49	10,950	294	37.24	0.97	10853 + 3230 x (37.24-1)	127,908

* Company P officially publizes a filter life of 4000 L, however, once the water amount exceeds a certain amount, mud, bacteria, and various components may adhere and accumulate, leaving the filter unsanitary

High-performance	Product	Filter	Water purification method		Published filter life		Clogging				3-year Water consumption L	Filter	3-year	Filter	3-year comparison(calculation)		
	Price	Price	Main material		Alternate	No washing	Washing	coefficient				Capacity	filter	life	Product+Filter		
	JPY	JPY	Activated carbon	H.F.Membrane	Washing	Month	Month	A.Carbon	Membrane	Washing		Total	L	L	number	Month	X 3-year used number
① Clean water																	
KLETOS mz200	65,000	13,000	Granular (dry)	○	Washing	12	36	1.00	1.00	1.00	1.00	10,950	12,000	0.91	39.56	65000 + 13000 x (0.91-1)	63,830
iSpring RCC1UP-AK100GPD	62,000	16,000	Granular (dry)	○	none	6	—	1.00	1.00	1.00	1.00	10,950	3,650	3.00	12.00	62000 + 16000 x (3-1)	94,000
②Turbid water																	
KLETOS mz200	65,000	13,000	Granular (dry)	○	Washing	12	36	1.00	0.50	1.00	0.50	10,950	6,000	1.82	19.78	65000 + 13000 x (1.82-1)	75,660
iSpring RCC1UP-AK100GPD	62,000	16,000	Granular (dry)	○	none	6	—	1.00	0.50	0.50	0.25	10,950	913	12.00	3.00	62000 + 16000 x (12-1)	238,000



KLETOS INC.

*We sell washable water purifier "MEIZU" for homes,
public facilities, companies, stores, etc.*

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Email: aki.kletos2@gmail.com

Promotion video in Thai :

<https://youtu.be/V2uK3rJ3u3Q>

Website :

<https://kletos-inc.com/>

Appendix

Specifications and
characteristics of
our products

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KLETOS water-purifier with washable filter

Item NO. mz100

Product photos for the catalogue



KLETOS water-purifier with washable filter

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Item No. mz100

Product features and user merits information for the catalogue



- The filter life is greatly extended by the filter washing function that other brands do not have, and the cost for 3 years is the lowest price compared to the equivalent product. Cost cut by 70% compared to home delivery!
- The filter washing function keeps the inside of the water purifier clean and supports a healthy life.
- The industry's highest level of filtration performance with fine-grained activated carbon removes turbidity, rust, bacteria, residual chlorine, and harmful substances.
- Hollow fiber membrane-free and washing functions greatly eliminate clogging of its filter!
- Environmentally friendly, unlike the RO method, with safe tap water that does not use electricity moreover no dispose of plastic bottles.

Product specifications for the catalogue

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mz100

Item number	mz100
External dimensions	Height 143 mm / Width 120 mm / Depth 67 mm
Body weight (when full)	280g (470g)
Product box	157mm x 147mm × 87mm
Material	ABS resin, Polyacetal, Synthetic rubber, Silicone rubber, Polypropylene, Polyolefin
Filter Material	Activated carbon, Non-woven fabric, Titanium silicate
Min. working pressure	0.05MPa
Flow rate	1.6L/minute
Filter performance	<ul style="list-style-type: none">• JIS S 3201 test results(Filter life:1,800L Removal rate:80%) Free residual chlorine, Turbidity, Soluble lead, 2-MIB (mold odor) , CAT (agricultural chemicals) , Chloroform, Bromodichloromethane, Dibromochloromethane, Bromoform, Tetrachloroethylene, Trichloroethylene, Total trihalomethane, 1,2-DCE, Benzene• JWPAS B test results Bacteria (Removal rate:99%) ※Infection prevention is not guaranteed. Also, viruses cannot be removed.
Replacement cycle	Approximately 6 months with 10L of use per day.



KLETOS water-purifier with washable filter

Item No. mz200

Product photos for the catalogue



KLETOS water-purifier with washable filter



Item No. mz200

Product features and user merits information for the catalogue



- The filter washing function, which is not found in other brands, greatly extends the life of the filter, and the cost for 3 years is the lowest compared to the equivalent product. Cost cut by 70% compared to home water delivery
- By the double tank alternate water purification method developed by our company, even tap water with a lot of turbidity can be purified cleanly.
Keep the filter clean for a long time by washing the filter with purified water
- With the triple effect of activated carbon, hollow fiber membrane, and alternating water purification, the highest level of turbidity, rust, bacteria, residual chlorine, and harmful substances are removed from the water purifier
- A large filtration flow rate of 12,000L is achieved by using a large-capacity filter and alternate-washing function
- Unlike the RO method, no use of electricity and no production of waste water.
Use safe tap water, Be Environmentally friendly.

Product specifications for the catalogue

miezu
mz200

Item number	mz200
External dimensions	Height 265mm / Width 225mm / Depth 110mm (excluding hose)
Body weight (when full)	3600g (4060g)
Product box	280mm x 280mm x 180mm
Material	ABS, Polyacetal, Synthetic rubber, Silicone rubber, PET, Vinyl chloride
Filter Material	Activated carbon, Non-woven fabric, Titanium silicate, Hollow fiber membrane
Min. working pressure	0.02MPa
Flow rate	3.0L/minute
Filter performance	<ul style="list-style-type: none">• JIS S 3201 test results(Filter life:12,000L Removal rate:80%) Free residual chlorine, Soluble lead, 2-MIB (mold odor) , CAT (agricultural chemicals) , Chloroform, Bromodichloromethane, Dibromochloromethane, Bromoform, Tetrachloroethylene, Trichloroethylene, Total trihalomethane, 1,2-DCE, Benzene• JIS S 3201 test results(Filter life:12,000L Frow rate:50%) Turbidity• JWPAS B test results Bacteria (Removal rate:99.99%) ※Infection prevention is not guaranteed. Also, viruses cannot be removed.
Replacement cycle	Approximately 1200 days (40 months) with 10L of use per day.