

STIEBEL ELTRON

High Quality
WATER FILTER
by Stiebel Eltron / Germany

USER MANUAL | FOUNTAIN 7S (AP-1720) WATER FILTER



Manufacturer's limited warranty

The system and installation need to comply with state and local laws and regulations.

FOUNTAIN 7S
AP-1720

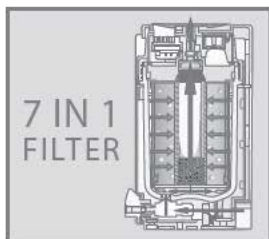
USER MANUAL FOUNTAIN 7S

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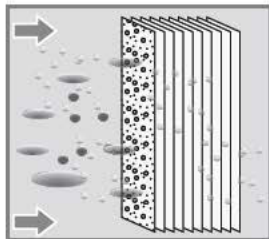
SHORT OVERVIEW

1.FOUNTAIN 7S FEATURES



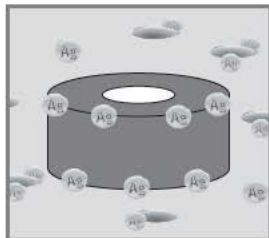
7 Stages in 1 filter

The qualities of 7 single filtration stages are combined in 1 cartridge. The high quality filter media allows for an extraordinary clean and safe filter performance.



Ultrafiltration membrane 0.01~ 0.1 micron and anti-bacterial carbon*

The membrane with a pore size of 0.01~0.1 micron removes all bacteria and provides micro-biologically safe and clean drinking water for you and your family. Anti-bacterial carbon on the membrane prevents the growth of filtered bacteria on the surface of the filter.

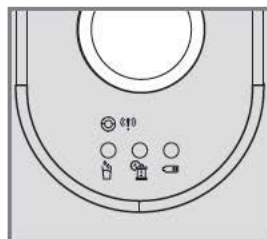


Anti-bacterial-silverlite*

An anti-bacterial silver impregnated mineral stone protects the filter against contamination from the filter outlet.

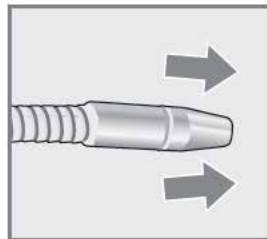
System Tested and Certified by NSF International against NSF/ANSI Standard 42 and 53 for the reduction of Taste/Odor , Chlorine, Nominal Particulate Class ,Turbidity and VOC.

***This claim has not been evaluated by NSF International, and is not supported by the NSF Certification of this product/component.**



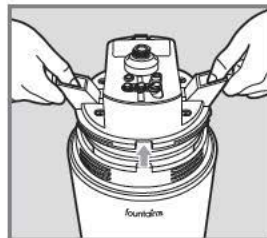
Display with indicator and beeper

The indicator and beeper alarm will set off, if the filter has to be changed. It is based on flow, volume and time whichever comes first.



One-way nozzle on the flexible pipe

This nozzle at the outlet of the flexible pipe allows water and airflow only from the inside to the outside direction to protect possible contamination to get back into the unit.

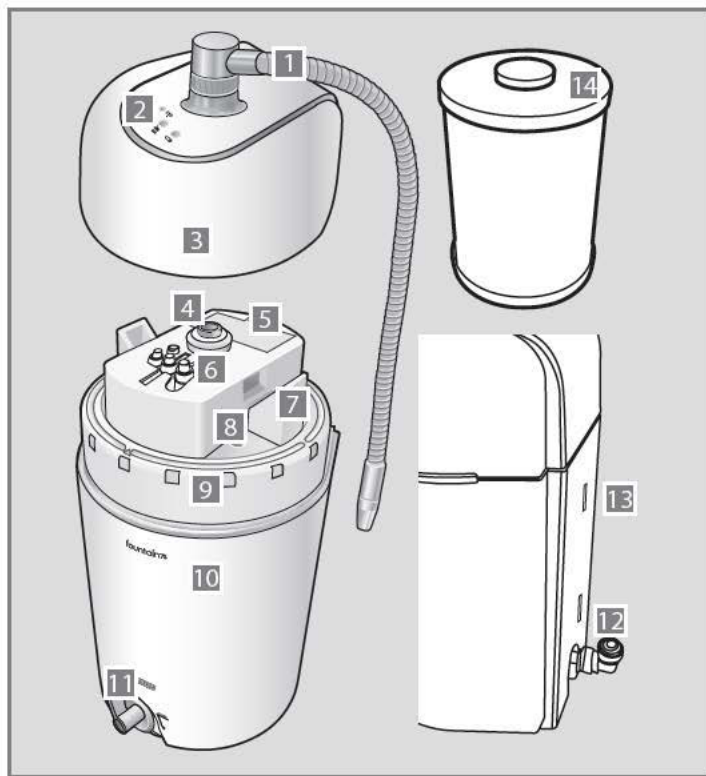


Filter replacement

The Stiebel Eltron Fountain 7S (AP-1720) filter cartridge is easy to change. No plumber or expert is needed.

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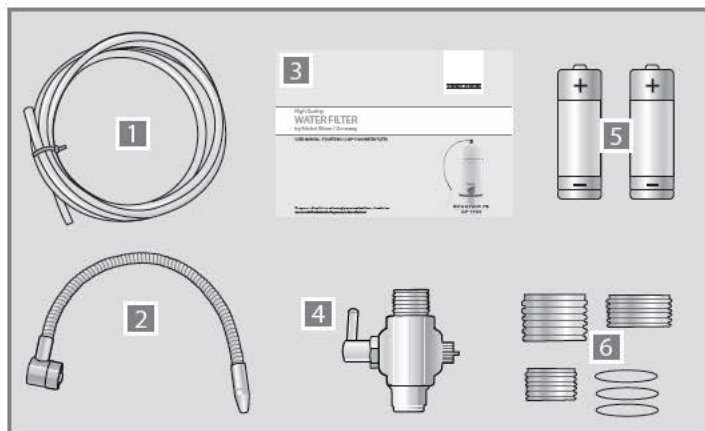
2. FOUNTAIN 7S FILTER COMPONENTS



- | | |
|----|----------------------------------|
| 1 | Flexible pipe |
| 2 | Display |
| 3 | Top cover |
| 4 | Nipple |
| 5 | Battery cover |
| 6 | Reset |
| 7 | Ejector |
| 8 | Controller cover |
| 9 | Filter retaining ring |
| 10 | Base housing |
| 11 | Front valve |
| 12 | One-touch elbow fitting |
| 13 | Holes for wallmount installation |
| 14 | 7 in 1 filter (AP-1721) |

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3. ACCESSORIES AND OPERATING INSTRUCTIONS



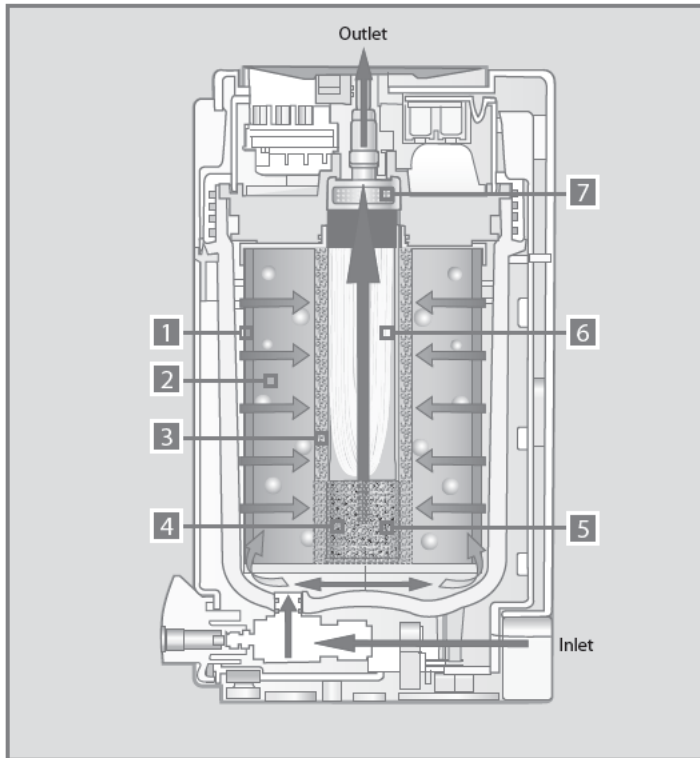
- 1 Plastic tube [1.5 m x 1]
- 2 Flexible pipe [x 1]
- 3 Manual [x 1]
- 4 Diverter valve with o-ring and cap [x 1]
- 5 Battery AA size [x 2]
- 6 Adapter [x 3], o-ring [x 3]

Model	Water filter
- Type name	Fountain 7S (AP-1720)
- Part no.	238762 (Copper Gold) 201588 (Silver Gray)
Characteristics	
- Installation type	counter top, wall mounted
- Filter cartridge	7 in 1 composite filter (AP-1721) (238763)
- Housing material	ABS [constructed of durable, high impact plastic]
- Max. operating pressure	4 bar
- Min. operating pressure	1 bar
- Max. operating temperature	35 °C
- Min. operating temperature	4 °C
Rated service	
- Rated service flow	2.0 L per minute at 1 bar of water pressure with a new filter. [Actual flow rate will depend on water pressure and the time the filter has been in service.]
- Rated service life*	The filter is designed to serve a family's cooking and drinking water needs for 12 months or 4,320 L, whichever comes first.

*NOTE: The life time will depend on the water quality.
It is based on the consumption of 12 L daily.

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4. FILTER MEDIA FUNCTION



Filter step	Removal function
1. Sediment 5µm Polyethylene	Reduces silt, rust, sediments and bigger particles
2. Activated carbon block 1µm	Reduces bad taste and odors, chlorine, Trihalomehtanes, VOC's and heavy metals (lead, copper, aluminum, zinc, iron)**
3. Far Infrared Ray Ceramic balls*	Provide FI rays and minerals into drinking water, providing good taste and boosting body metabolism
4. Negative Ions Ceramic balls*	Provide negative ions into drinking water for a fresh and better taste
5. Granular activated Carbon with silver ions*	Improves the taste of water. Silver ions prohibit the growth of bacteria in the filter media
6. Ultra filtration (Hollow fiber)*	Pore size: down to 0.01µm 100% bacteria reduction** Removes cysts, and partly virus**
7. Silverite-stone (Silver Ions, Anti-germ stone)*	Prevents contamination from the outside

System: Tested and Certified by NSF International against NSF/ANSI Standard 42 and 53 for the reduction of Taste/Odor, Chlorine, Nominal Particulate (Class I), Turbidity and VOC.

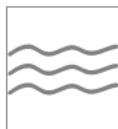
NOTE: The product was testing using only the counter-top connected to sink faucet set-up.

*This claim has not been evaluated by NSF International, and is not supported by the NSF Certification of this product/component.

**The removal of TTHMs, heavy metals, bacteria, total coliform, herbicides, pesticides and the function of the antibacterial stone was tested and verified by independent laboratory and Korea Conformity Laboratories.

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5. INSTALLATION AND PRECAUTIONS



The water filter can only be used with pre-filtered water from a water supply facility. The filter can not be used with water from unsafe water sources such as rivers and wells.



To reach an optimized and satisfying filtration result the Fountain 7S should only be installed in houses with a pipe pressure between 1 and 4 bar.



The Fountain 7S must be installed in a far distance to inflammable materials and heating sources to avoid deformation.



The Fountain 7S should only be installed inside the house.



The filter can only be installed to the cold water supply with a water temperature between 4 and 35°C.



Do not clean the filter cartridge.
Doing so may contaminate the filter unit.



The Fountain 7S can only be installed as counter top or wall mounted type by using a diverter valve. It cannot be used as under sink type.



The Fountain 7S should not be exposed to force or shock.



The Fountain 7S must be kept away or protected from direct light (e.g. sunlight).



Do not spill water on the water filter.



Do not open the filter during water flow.



Do not twist the exchange filter cartridge too tight into the adapter as the neck of the filter cartridge can crack and break in this case.

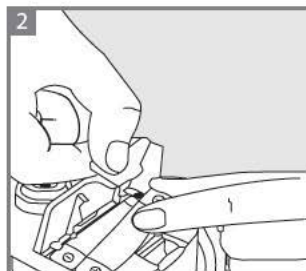
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6. INSTALLATION GUIDELINES NOTE: The installation must comply with state and local regulations.

INSERT THE BATTERIES



To insert the batteries, remove the top cover of the filter.

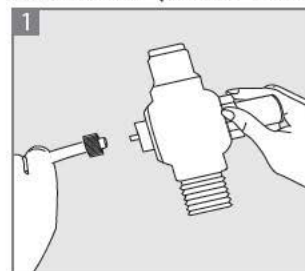


Open the battery cover and insert the batteries and close the lid after that.

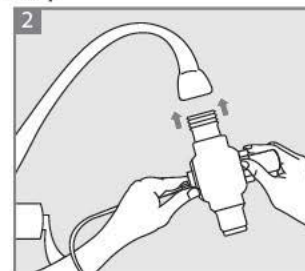


Put the top cover back on the unit and connect the flexible pipe with the nipple on the top.

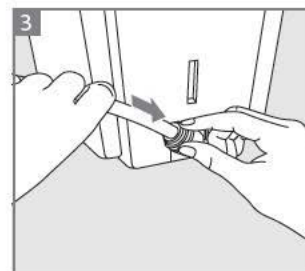
COUNTERTOP (FAUCET INSTALLATION)



Connect the plastic tube to the diverter valve. Tighten the cap. (*)



Connect the diverter valve to the faucet. If needed use one of the 3 faucet adapters. (**)



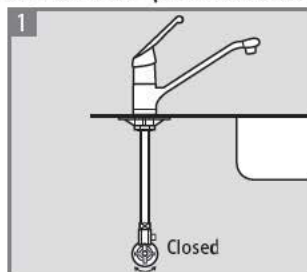
Insert the other end of the tube to the elbow fitting on the back cover until it is locked properly.

Note : Please see the flushing instruction on item no. 15 page 11.

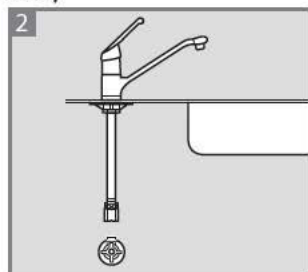
USER MANUAL FOUNTAIN 7S

6. INSTALLATION GUIDELINES NOTE: The installation must comply with state and local regulations.

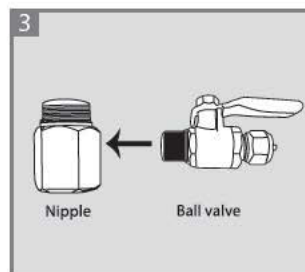
COUNTERTOP (UNDERSINK CONNECTION)



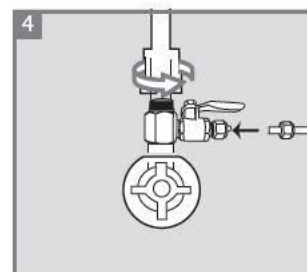
Lock the stop valve of the cold water supply line.



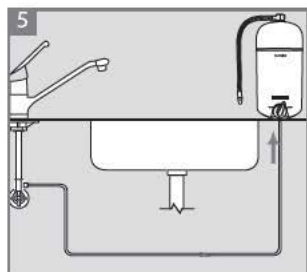
Detach the metal hose from the cold water supply under the sink.



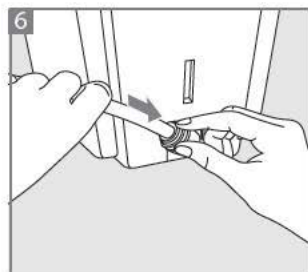
Connect the diverter ball valve with the nipple (use teflon-tape).*



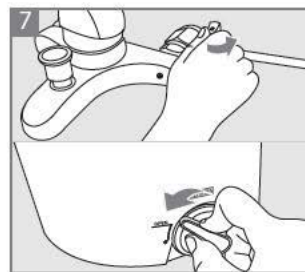
Assemble the ball valve to the water supply. Re-attach the metal hose and connect the inlet plastic tube into the nipple. (**)



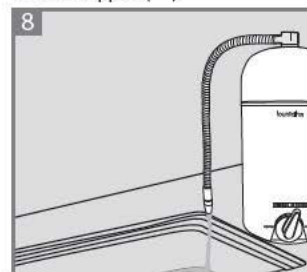
Connect the Inlet plastic tube with the Fountain 7S. If necessary drill a hole through the kitchen counter to reach the elbow fitting of the unit.



Insert the inlet plastic tube into the elbow fitting on the back of the unit until it is locked properly.



Open the front valves and check all connections for leakage.



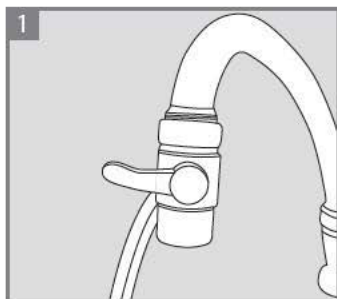
Before using the filtered water as drinking water, let the water flow for at least 10 minutes.

* These parts need to buy separately.

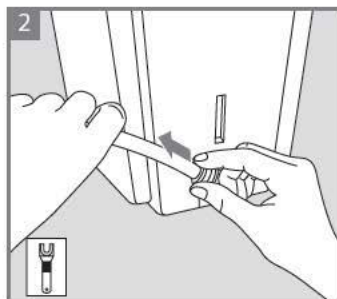
** Push the plastic tube firmly and completely over the nipple before locking it with the cap.

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7. FILTER REPLACEMENT (AP-1720)



Close the diverter valve.



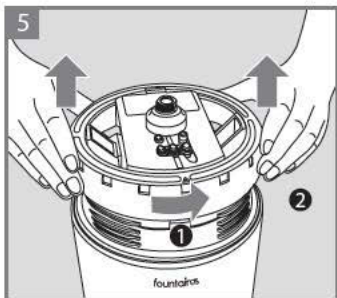
Remove the tube by using a spanner to press the upper ring on the connector down.*



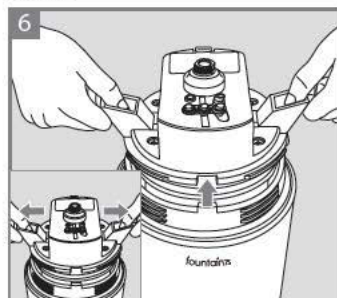
Open the front valve and remove the flexible pipe.



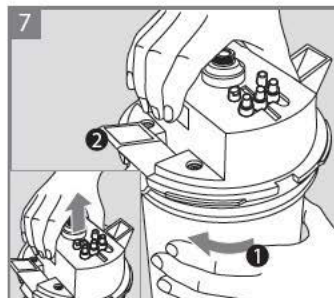
Pull out the top cover.



Remove the retaining ring to unlock the filter.*



Press the ejectors to remove the filter adapter and filter.**



Separate the old filter from the adapter.



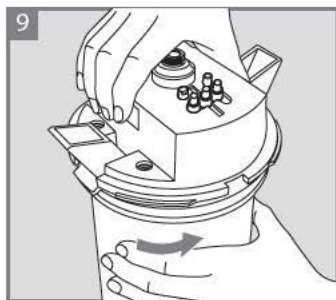
Clean the inside of the filter only with a clean cloth.

*Be prepared that little amount of water can come out of the elbow-connector and filter.

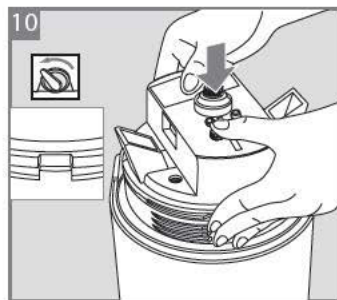
**In case it is difficult to remove the filter because of air gap, open and close the valve after a few minutes. After that, open the front valve and try to remove the filter again.

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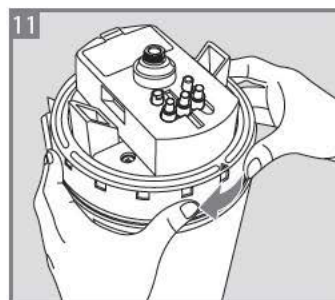
7. FILTER REPLACEMENT (AP-1720)



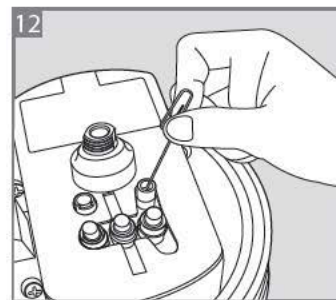
Assemble the new filter with the adapter.



Open the front valve and press the assembled filter firmly into the base housing.



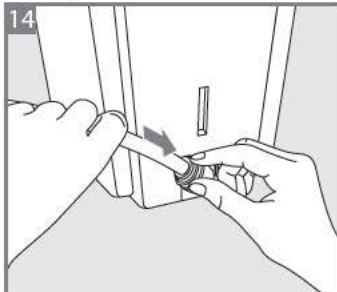
Lock the filter retaining ring.



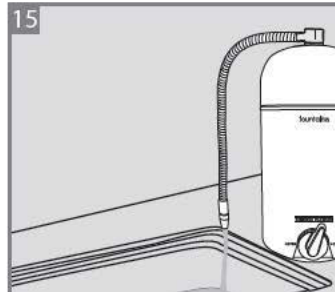
Reset the filter indicator by using a paper clip (see page 12).



Put on the top cover and connect the flexible pipe to the nipple.



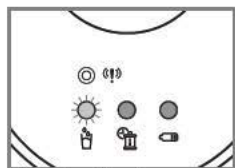
Connect the plastic tube to the elbow fitting.



Open the diverter and front valve to allow water flow for 10 minutes before using filtered water as drinking water.

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8. DISPLAY AND RESET LIFETIME INDICATOR



Flickering blue lamp
Normal flow.
1 - 11 month | < 4,000 L.



Flickering yellow lamp and beeping
The batteries have to be charged immediately.



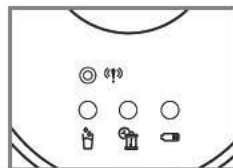
Flickering red lamp
Filter replacement is needed within 1 month.
11 month | 4,000 - 4,320 L.



All lamps flickering
Over-flow, close the valves and check the filter.



Flickering red lamp and beeping
The filter has to be changed immediately.
358 days | 4,300 L.

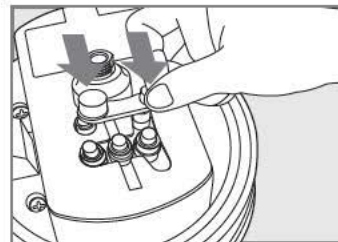
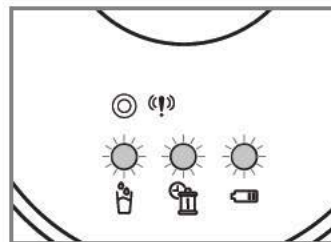
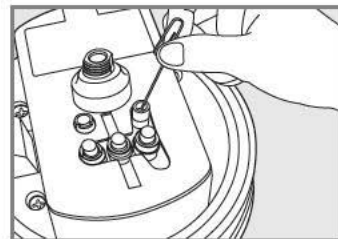
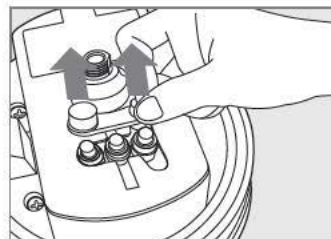


No lamps and beeping until batteries die
Lifetime of the filter is finished.
[The filter must not be used anymore]
12 month | > 4,320 L.

Indicator reset after filter replacement

After changing the filter cartridge the indicator has to be reset.

Take the top cover off, take out the rubber cover and press slowly on the reset button using a paper clip or similar for two seconds to reset the filter. During reset, the three LEDs light up simultaneously. It shows that the reset is complete. Close the rubber adapter.



Note : It is not required to reset the indicator after replacing batteries. The used water volume remains recorded in the memory.

USER MANUAL FOUNTAIN 7S

9. Performance Data Sheet for the model Fountain 7S (AP-1720) by Stiebel Eltron Asia Ltd.,

469 Moo 2, Klong-Jik, BangPa-In, Ayutthaya, Thailand 13160. Tel: +66 2 021 9300

Produced in Daejeon, Korea



System Tested and Certified by NSF International against NSF/ANSI Standard 42 and 53 for the reduction of Taste and Odor, Chlorine, Turbidity, Nominal Particulate Class I and VOC.

This system has been tested according to NSF/ANSI Standard 42 and 53 for reduction of the substances listed below. The concentrations of the indicated substances in water entering the system were reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42 or 53.

Table 1 Performance Data Sheet Reduction Claims

	Influent Challenge Conc.	Max. Permissible Product Water Conc.	Reduction Requirement	Percent Reduction.
<i>Standard No. 42</i>		<i>Aesthetic Effects</i>		
Taste, Odor and Chlorine (mg/L as Chlorine)	2.0 ± 10%	-	≥ 50%	97.4 %
Normal Particulate (Class I)	at least 10,000 particles/mL		≥ 85%	98.8 %
<i>Standard No. 53</i>		<i>Health Effects</i>		
Turbidity (NTU)	11 ± 1 NTU	0.5 NTU	-	>99.0 %
VOC	300 ± 30 µg/L	95%	-	99.8%

This Testing was performed under standard laboratory condition, and actual performance may vary.

Conforms to NSF/ANSI 53 for VOC reduction. See performance data sheet for individual contaminants and reduction performance.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

What is NSF International?

Since 1944, NSF International has been certifying products, writing standards and conducting audits to help protect food, water and consumer goods.

As not-for-profit, global public health and safety organization, NSF is committed to improving human health and safety worldwide.

NSF has established a history of independence as exemplified by unparalleled third-party evaluations and the value of the brands they carry the NSF Mark.

NSF/ANSI Standard 42 - Aesthetic Effects

This standard covers point-of-use (POU) and point-of-entry (POE) systems designed to reduce specific aesthetic or non-health-related contaminants (chlorine, taste and odor, and particulates) that may be present in public or private drinking water.

NSF/ANSI Standard 53 - Health Effects

Standard 53 addresses point-of-use (POU) and point-of-entry (POE) systems designed to reduce specific health-related contaminants, such as turbidity, volatile organic chemicals (VOCs), that may be present in public or private drinking water.

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9. Performance Data Sheet

Table 2 Performance Data Sheet Reduction Claims For Organic Chemicals Included By Surrogate Testing

	Influent Challenge Conc.(mg/L)	Max. Permissible Product Water Conc.(mg/L)	Reduction Requirement. (%)		Influent Challenge Conc.(mg/L)	Max. Permissible Product Water Conc.(mg/L)	Reduction Requirement. (%)
alachlor	0.05	0.001	98	haloketones(HK)	0.0072	0.0001	99
atrazine	0.100	0.003	97	1,1-dichloro-2-propanone	0.0082	0.0003	96
benzene	0.081	0.001	>99	1,1,1-trichloro-2-propanone			
carbofuran	0.190	0.001	>99	heptachlor	0.025 *	0.00001 *	>99
carbon tetrachloride	0.078	0.0018	98	heptachlor epoxide	0.0107	0.0002	98
chlorobenzene	0.077	0.001	>99	hexachlorobutadiene	0.044	0.001	>98
chloropicrin	0.015	0.0002	99	hexachlorocyclopentadiene	0.080	0.000002	>99
2,4-D	0.110	0.0017	98	lindane	0.055	0.00001	>99
dibromochloropropane(DBCP)	0.052	0.00002	>99	methoxychlor	0.050	0.0001	>99
o-dichlorobenzene	0.080	0.001	>99	pentachlorophenol	0.098	0.001	>99
p-dichlorobenzene	0.040	0.001	>98	simazine	0.120	0.004	>97
1,2-dichloroethane	0.088	0.0048	95	styrene	0.150	0.0005	>99
1,1-dichloroethylene	0.083	0.001	>99	1,1,2,2-tetrachloroethane	0.081	0.001	>99
cis-1,2-dichloroethylene	0.170	0.0005	>99	tetrachloroethylene	0.081	0.001	>99
trans-1,2-dichloroethylene	0.086	0.001	>99	toluene	0.078	0.001	>99
1,2-dichloropropane	0.080	0.001	>99	2,4,5-TP (silvex)	0.270	0.0016	>99
cis-1,3-dichloropropylene	0.079	0.001	>99	tribromoacetic acid	0.042	0.001	>98
dinoseb	0.170	0.0002	99	1,2,4-trichlorobenzene	0.180	0.0005	>99
endrin	0.053	0.00059	99	1,1,1-trichloroethane	0.084	0.0046	95
ethylbenzene	0.088	0.001	>99	1,1,2-trichloroethane	0.150	0.0005	>99
ethylene dibromide (EDB)	0.044	0.0002	>99	trichloroethylene	0.180	0.0010	>99
haloacetonitriles(HAN):				trihalomethanes(includes) :			
bromochloroacetonitrile	0.022 *	0.0005	98	chloroform(surrogate chemical)	0.300	0.015	95
dibromoacetonitrile	0.024	0.0008	98	bromoform			
dichloroacetonitrile	0.0096	0.0002	98	bromodichloromethane			
trichloroacetonitrile	0.015	0.0003	98	chlorodibromomethane			
				xylenes(total)	0.070	0.001	>99

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10. TROUBLE SHOOTING

Problems	Possible cause	Trouble shooting
Black color or black particles in the water.	The Fountain 7S water filter contains carbon powder. After installation small particles can occur in the water.	After installation or filter exchange let the water flow for about 10 minutes to clean the filter from possible small residual particles of carbon.
Slow water flow.	The lifetime of the filter is finished.	Replace the filter cartridge.
	The filter is clogged.	Replace the filter cartridge.
Noise in the system.	There are air bubbles in the system.	After installation let the water flow for about 10 minutes to remove all air from the system.
Unusual water or chlorine taste and bad odor.	The cartridge does not remove chlorine and other contaminants from the water. The life time of the filter cartridge is finished.	Replace the filter cartridge.
	You have not used the filter for a while and some sediments and contaminants developed a bad smell in the system.	Open the valves and let the water flow for at least 5 minutes.
Water leakage.	Tubes, fittings, nipples and flexible pipe might not be connected properly.	Check every connection to be inserted in the proper depth.
No water flow.	The diverter valve is closed.	Open the diverter valve.
	The front valve is closed.	Open the front valve.
No light on display.	The filter life time of the filter is reached.	Change the filter.
	Improper use causes water inside the PCB.	Contact Stiebel Eltron service center: 0-2021-9300

USER MANUAL FOUNTAIN 7S

10. TROUBLE SHOOTING

Problems	Possible cause	Trouble shooting
All lights are flickering.	Overflow in the filter.	The flow rate and water pressure is too high. Close the front valve. Reduce the water pressure into the unit, or contact Stiebel Eltron service center.
No water flow, even though the unit looks fine.	The filter cartridge is too tight inside the adapter. The one-way nozzle is broken or clogged	Open the filter and check the filter cartridge. If needed, slightly loosen it. Remove the water nozzle and check.
White particles inside drinking water.	Calcium inside water filter is higher than normal.	Sometimes, tap water source comes with higher calcium level than the other days. With higher ambient temperature, or when filtered water is boiled, chilled or used to making ice, calcium dissolved in tap water might form white particles. If this happens often, flush the cartridge for about 10 minutes. If white particles still exist after flushing, please wait for a week to see if white particles disappear when tap water is back to a lower calcium level. If the problem reoccur after a week, contact Stiebel Eltron call center to check calcium level inside your tap water source.



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THAILAND

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TEL: +66 2 021 9300

Size : A5

Material: Green read paper 75 g.

Plastic bag : 7 x 11 INCH

Product code : FOUNTAIN 7S : 238762 / FOUNTAIN 7S : 201588

Part name : MANUAL FOUNTAIN 7S SILVER (EN)

Rev.01

Part no. 337123



STIEBEL ELTRON