



Description:

The Model 100 is our newest water filtration system for home use. Available in both under counter and counter top models, the Model 100 is a 6-stage water filtration system designed to make your tap water taste great. An optional connection for your refrigerator/ice maker/coffee maker, etc. is included with the under counter model (100U).

- Eliminates 99.9% of particles 0.5 micron or larger
- Meets or exceeds NSF Std 53 for cyst reduction
- Meets or exceeds NSF Std 42 for taste and odor reduction
- Eliminates municipally added chlorine and its compounds.

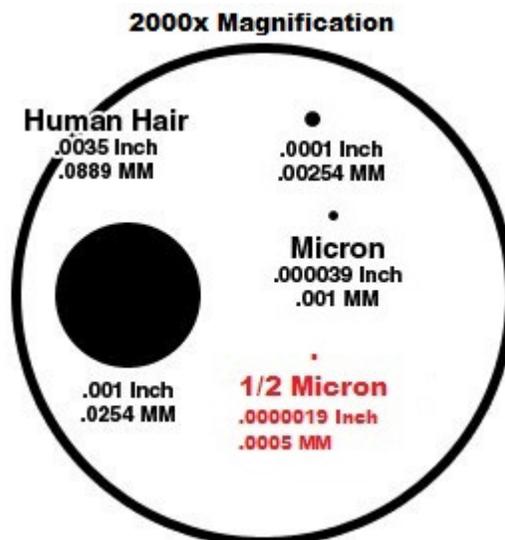
Filters are good for 600 gallons or 6 months, whichever comes first.

Filter Description:

The water filtration system is driven by our 6 stage filtration spectrum. The 6 stages are performed by two individual cartridges; the **H1** and **H2** remove sediment, taste/odor, VOC's and heavy metals.

H1:

The H1 is a 0.5 micron [absolute](#), 4-stage, high efficiency depth filter. This filter removes any dirt, sand, rust particles, etc. down to 0.5 micron in size. A micron is 0.00003937 inches (0.000001mm)! ½ micron is roughly 100 times smaller than the thickness of a human hair! (see chart below for comparison)



Reference Chart:

Name	Type	Shape	Size	Link
Bacillus anthracis	Bacterium	Rod	length: 3-5µm, dia.:1-1.2µm	Wikipedia.org: Bacillus Anthracis
Cryptosporidium	Cyst	Oval	4-5µm	Wikipedia.org: Cryptosporidium
E-Coli (Escherichia coli)	Bacterium	Rod	length: 2µm, dia.: 0.5µm	Wikipedia.org: Ecoli
Giardia Lamblia	Cyst	Oval	6-10µm	Wikipedia.org: Giardia
Salmonella	Bacterium	Rod	length: 2µm, dia.: 0.7µm	Wikipedia.org: Salmonella

Absolute rated filters vs. nominal rated filters:

Sediment filters are rated by the size of the smallest particles they remove. The confusing part is that there are two different ratings; nominal and [absolute](#). A nominal rated filter removes a percentage of its rated size and allows a good percentage of much larger particles to pass through. An absolute rated filter removes a very large percentage of its rated size (in our case 99.9%). Another source of confusion is how that rating was determined, you really don't know what you are getting with nominal rated filters.

Performance / Testing Specifications:

The **H1** is a high efficiency depth filter cartridge, constructed using an advanced, microprocessor controlled production process that permits the creation of multiple filtration zones within a single filter cartridge. The multi-zone design produces a gradient pore structure which effectively captures larger particles in the outer sections of the filter cartridge while providing highly efficient and consistent removal of small particles in the inner sections (0.5 micron absolute) thus eliminating the need for a pre-filter to ensure long life.

Our Micron Rating is 0.5 µm Absolute as determined by ASTM ([American Society for Testing and Materials](#)) using their ASTM F-795 Test where it achieved >99.9% retention of 0.5 micron sized particles and larger.

Materials of Construction:

Filter Media: Polypropylene

Hardware: Polypropylene

FDA Listed Materials: Manufactured from materials, which are listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations. All polypropylene components meet the specifications for biological safety as per the [USP](#) for Class VI-121°C plastics.

Purity: Filters are constructed free of adhesives, binders and resins.

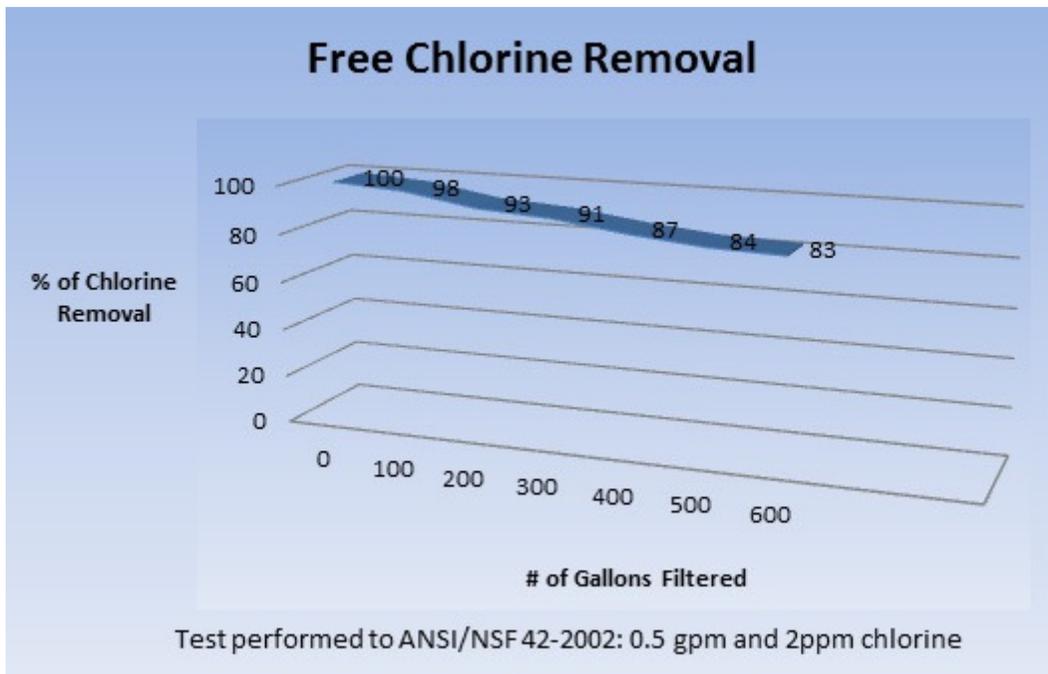


H2:

The **H2** is a 2-stage Chlorine and VOC removal filter that also reduces water soluble heavy metals such as iron and lead. The cartridge contains both [KDF™](#) and granular activated carbon to eliminate the taste normally associated with municipal water. KDF™ extends the carbon bed life by 15 times allowing for much higher capacity.

Performance / Testing Specifications:

According to the manufacturer :KDF removes more than 95% of free chlorine, reduces water-soluble heavy metals such as Lead and Iron ,as well as, scale and it's "redox" method kills algae & bacteria. Carbon removes VOC's (volatile organic compounds), as well as, taste and odor causing contaminants.



Materials of Construction:

FDA Listed Materials: All polypropylene components meet the specifications for biological safety as per the USP for Class VI-121°C plastics.

Purity: Filters are free of adhesives, binders and resins.



Physical Specifications:

Model Number	Inlet / Outlet Size	Dimensions			Approximate Weight	Housing Material	Tubing Material
		Height	Diameter	Overall Width			
100U	¼ Quick Connect	7 ¾" (19.7 cm)	4" (10.2 cm)	5" (12.7 cm)	2 lbs (0.9 kg)	N/A (NSF Listed)	LLDPE (NSF Listed)
100C	¼ Quick Connect	7 ¾" (19.7 cm)	4" (10.2 cm)	5" (12.7 cm)	2 lbs (0.9 kg)	N/A (NSF Listed)	PVC (NSF Listed)
100 Inline	¼ Quick Connect	7 ¾" (19.7 cm)	4" (10.2 cm)	5" (12.7 cm)	2 lbs (0.9 kg)	N/A (NSF Listed)	N/A

Performance Specifications:

Model Number	Sediment Filtration	# Sediment Filtration Zones	Taste & Odor Filtration	Chlorine Filtration	# of Taste, Odor & VOC Zones	Maximum Flow Rate	Maximum Water Temperature	Filter Life	Replacement Filters
100U	0.5 micron ABSOLUTE	4	GAC	KDF/GAC	2	0.5 gpm	70 °F	600 gallons or 6 months	H1 & H2
						(1.9 lpm)	(21°C)		
100C	0.5 micron ABSOLUTE	4	GAC	KDF/GAC	2	0.5 gpm	70 °F	600 gallons or 6 months	H1 & H2
						(1.9 lpm)	(21°C)		
100 Inline	0.5 micron ABSOLUTE	4	GAC	KDF/GAC	2	0.5 gpm	70 °F	600 gallons or 6 months	H1 & H2
						(1.9 lpm)	(21°C)		

