

Performance Data Sheet for the A. O. Smith Refrigerator/Freezer Clean Water Filter					
Models	Replacement	Operating pressure range	Rated capacity	Operating temp. range	Rated flow
AO-FF	AO-US-100R	20-80 psi 1.40-5.624 kg/cm ²	200 gallons 757 liters	40-90° F 4.44-32.2° C	0.5 gpm (1.9 L/m)
Manufactured by: A. O. Smith Corporation 11270 West Park Pl #170 Milwaukee, WI 53224 877.333.7108					



This system has been tested according to NSF/ANSI 42, 53, & 401 for reduction of the substances listed below. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF/ANSI 42, 53, & 401.

NSF/ANSI 42	Reduction Requirement	Overall % Reduction	Results
Chlorine Reduction, Free Available	≥50%	97.3%	Pass
Chloramine Reduction, Free Available	0.5 mg/l	97.6%	Pass
Particulate Class I particles 0.5 to <1um	≥85%	99.6%	Pass

NSF/ANSI 53	Reduction Requirement	Overall % Reduction	Results
Cyst Live Cryptosporidium & Giardia	99.95%	>99.99%	Pass
Mercury Reduction pH 8.5	<2 ug/L	96.6%	Pass
Mercury Reduction pH 6.5	<2 ug/L	>96.2%	Pass
Lead Reduction pH 6.5	<5 ug/L	>99.7%	Pass
Lead Reduction pH 8.5	<5 ug/L	99.6%	Pass
MTBE Reduction	<5 ug/L	83.5%	Pass
Perfluorooctanoic acid (PFOA) & Perfluorooctane sulfonate (PFOS)	0.07 ug/L	95.2%	Pass
Turbidity	<0.5 NTU	99.34%	Pass
VOC Surrogate Test	See Table 8.2	99.6%	Pass
Asbestos	99%	>99%	Pass

NSF/ANSI 401	Maximum Concentration	Minimum Reduction	Overall % Reduction	Results
Atenolol	30 ng/L	94.7%	>94.7%	Pass
Bisphenol A	300 ng/L	98.9%	>98.9%	Pass
Carbamazepine	200 ng/L	98.4%	>98.4%	Pass
DEET	200 ng/L	98.4%	>98.4%	Pass
Estrone	20 ng/L	96.1%	>96.1%	Pass
Ibuprofen	60 ng/L	95.1%	>95.2%	Pass
Linuron	20 ng/L	96.3%	>96.3%	Pass
Meprobamate	60 ng/L	94.6%	>94.6%	Pass
Metolachlor	200 ng/L	98.4%	>98.4%	Pass
Naproxen	20 ng/L	96.4%	>96.5%	Pass
Nonyl phenol	200 ng/L	90.3%	91.5%	Pass
Phenitoin	30 ng/L	95.4%	>95.7%	Pass
TCEP	700 ng/L	98%	>98%	Pass
TCPP	700 ng/L	97.9%	>97.9%	Pass
Trimethoprim	20 ng/L	96.1%	>96.1%	Pass
Microplastics (particles 0.5 to <1 µm)	At least 10,000 particles/mL	85%	99.6%	Pass

Table 8.2 – Performance data sheet reduction claims for organic chemicals included by surrogate testing

VOCs (by surrogate testing using chloroform)	Drinking water regulatory level (MCL/MAC) mg/L	Influent/Unfiltered mg/L	Effluent/Filtered mg/L	Percent Reduction
alachlor	0.002	0.050	0.001	>98%
atrazine	0.003	0.100	0.003	>97%
benzene	0.005	0.081	0.001	>99%
carbofuran	0.04	0.190	0.001	>99%
carbon tetrachloride	0.005	0.078	0.0018	98%
chlorobenzene	0.1	0.077	0.001	>99%
chloropicrin	—	0.015	0.0002	99%
2,4-D	0.07	0.110	0.0017	98%
dibromochloropropane (DBCP)	0.0002	0.052	0.00002	>99%
o-dichlorobenzene	0.6	0.080	0.001	>99%
p-dichlorobenzene	0.075	0.040	0.001	>98%
1,2-dichloroethane	0.005	0.088	0.0048	95%
1,1-dichloroethylene	0.007	0.083	0.001	>99%
trans-1,2-dichloroethylene	0.07	0.170	0.0005	>99%
cis-1,2-dichloroethylene	0.1	0.086	0.001	>99%
1,2-dichloropropane	0.005	0.080	0.001	>99%
cis-1,3-dichloropropylene	—	0.079	0.001	>99%
dinoseb	0.007	0.170	0.0002	99%
endrin	0.002	0.053	0.00059	99%
ethylbenzene	0.7	0.088	0.001	>99%
ethylene dibromide (EDB)	0.00005	0.044	0.00002	>99%
haloacetonitriles (HAN)	—	—	—	—
bromochloroacetonitrile	—	0.022	0.0005	98%
dibromoacetonitrile	—	0.024	0.0006	98%
dichloroacetonitrile	—	0.0096	0.0002	98%
trichloroacetonitrile	—	0.015	0.0003	98%
haloketones (HK)	—	—	—	—
1,1-dichloro-2-propanone	—	0.0072	0.0001	99%
1,1,1-trichloro-2-propanone	—	0.0082	0.0003	96%
heptachlor (H-34, Heptox)	0.0004	0.025	0.00001	>99%
heptachlor epoxide	0.0002	0.0107	0.0002	98%
hexachlorobutadiene	—	0.044	0.001	>98%
hexachlorocyclopentadiene	0.05	0.060	0.000002	>99%
lindane	0.00002	0.055	0.00001	>99%
methoxychlor	0.04	0.050	0.0001	>99%
pentachlorophenol	0.001	0.096	0.001	>99%
simazine	0.004	0.120	0.004	>97%
styrene	0.1	0.150	0.0005	>99%
1,1,2,2-tetrachloroethane	—	0.081	0.001	>99%
tetrachloroethylene	0.005	0.081	0.001	>99%
toluene	1	0.078	0.001	>99%
2,4,5-TP (silvex)	0.05	0.270	0.0016	99%
tribromoacetic acid	—	0.042	0.001	>98%
1,2,4-trichlorobenzene	0.07	0.160	0.0005	>99%
1,1,1-trichloroethane	0.2	0.084	0.0046	95%
1,1,2-trichloroethane	0.005	0.150	0.0005	>99%
trichloroethylene	0.005	0.180	0.0010	>99%
trihalomethanes (THMs)	—	Influent/Unfiltered	Effluent/Filtered	Percent Reduction
bromodichloromethane (THM)	0.080	0.300	0.015	95%
bromoform (THM)				
chloroform (THM)				
chlorodibromomethane (THM)				
xylenes (total)	10	0.070	0.001	>99%



AO-US-100R is certified by WQA when used in AO-FF to NSF/ANSI standards 42, 53, and 401 for the reduction claims specified on the Performance Data Sheet and at www.WQA.org.

- All contaminants reduced by this filter are listed.
- Not all contaminants listed may be present in your water.
- Does not remove all contaminants that may be present in tap water.
- The contaminants covered in NSF/ANSI 401 have been deemed as incidental/emerging compounds and have been detected in drinking water supplies at trace levels. These compounds can affect some consumers' perception of drinking water quality.



Filter is only to be used with cold water.



Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.



Filter usage must comply with all state and local laws.



Testing was performed under standard laboratory conditions, actual performance may vary.



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

Hoja de datos de rendimiento de la máquina de agua limpia Refrigerador/congelador de A. O. Smith					
Modelos	Repuesto	Rango de presión de funcionamiento	Capacidad nominal	Rango de temp. de funcionamiento	Flujo nominal
AO-FF	AO-US-100R	1,40 a 5,624 kg/cm ² 20 a 80 psi	757 litros 200 galones	4,44 a 32,2 °C 40 a 90 °F	1,9 L/m (0,5 gpm)
Fabricado por: A. O. Smith Corporation 11270 West Park Pl #170 Milwaukee, WI 53224					



Este sistema ha sido probado de acuerdo con NSF/ANSI 42, 53 y 401 para la reducción de las sustancias enumeradas a continuación. La concentración de las sustancias indicadas en el agua que ingresa al sistema se redujo a una concentración menor o igual al límite permisible para el agua que sale del sistema, como se especifica en NSF/ANSI 42, 53 y 401.

NSF/ANSI 42	Requisito de reducción	Porcentaje total de reducción	Resultados
Chlorine Reduction, Free Available	>50%	97.3%	Aprobado
Chloramine Reduction, Free Available	0.5 mg/l	97.6%	Aprobado
Particulate Class I particles 0.5 to <1µm	>85%	97.6%	Aprobado

NSF/ANSI 53	Requisito de reducción	Porcentaje total de reducción	Resultados
Cyst Live Cryptosporidium & Giardia	99.95%	>99.99%	Aprobado
Mercury Reduction pH 8.5	<2 ug/L	96.6%	Aprobado
Mercury Reduction pH 6.5	<2 ug/L	>96.2%	Aprobado
Lead Reduction pH 6.5	<5 ug/L	>99.7%	Aprobado
Lead Reduction pH 8.5	<5 ug/L	99.6%	Aprobado
MTBE Reduction	<5 ug/L	83.5%	Aprobado
Perfluoroctanoic acid (PFOA) & Perfluorooctane sulfonate (PFOS)	0.07 ug/L	95.2%	Aprobado
Turbidity	<0.5 NTU	99.34%	Aprobado
VOC Surrogate Test	Ver Tabla 8.2	99.6%	Aprobado
Asbestos	99%	>99%	Aprobado

NSF/ANSI 401	Concentración máxima	Reducción mínima	Porcentaje total de reducción	Resultados
Atenolol	30 ng/L	94.7%	>94.7%	Aprobado
Bisphenol A	300 ng/L	98.9%	>98.9%	Aprobado
Carbamazepine	200 ng/L	98.4%	>98.4%	Aprobado
DEET	200 ng/L	98.4%	>98.4%	Aprobado
Estrone	20 ng/L	96.1%	>96.1%	Aprobado
Ibuprofen	60 ng/L	95.1%	>95.2%	Aprobado
Linuron	20 ng/L	96.3%	>96.3%	Aprobado
Meprobamate	60 ng/L	94.6%	>94.6%	Aprobado
Metolachlor	200 ng/L	98.4%	>98.4%	Aprobado
Naproxen	20 ng/L	96.4%	>96.5%	Aprobado
Nonyl phenol	200 ng/L	90.3%	91.5%	Aprobado
Phenytoin	30 ng/L	95.4%	>95.7%	Aprobado
TCEP	700 ng/L	98%	>98%	Aprobado
TCP	700 ng/L	97.9%	>97.9%	Aprobado
Trimethoprim	20 ng/L	96.1%	>96.1%	Aprobado
Microplastics (particels 0.5 to <1 µm)	At least 10,000 particels/mL	85%	99.6%	Aprobado

Tabla 8.2 – Afirmaciones de reducción de la hoja de datos de rendimiento para productos químicos orgánicos incluidos por pruebas sustitutas

COV (según la prueba de sustitutos con el uso de coloriformo)	Nivel normativo de agua potable (NMC/CMA) mg/L	Entrante/ Sin filtrar mg/L	Saliente/ Filtrada mg/L	Porcentaje de reducción
alachlor	0.002	0.050	0.001	>98 %
atrazine	0.003	0.100	0.003	>97 %
benzene	0.005	0.081	0.001	>99 %
carbolfuran	0.04	0.190	0.001	>99 %
carbon tetrachloride	0.005	0.078	0.018	98 %
chlorobenzene	0.1	0.077	0.001	>99 %
chloropicrin	—	0.015	0.002	99 %
2,4-D	0.07	0.110	0.0017	98 %
dibromochloropropane (DBCP)	0.0002	0.052	0.00002	>99 %
o-dichlorobenzene	0.6	0.080	0.001	>99 %
p-dichlorobenzene	0.075	0.040	0.001	>98 %
1,2-dichloroethane	0.005	0.088	0.0048	95 %
1,1-dichloroethylene	0.007	0.083	0.001	>99 %
cis-1,2-dichloroethylene	0.07	0.170	0.0005	>99 %
trans-1,2-dichloroethylene	0.1	0.086	0.001	>99 %
1,2-dichloropropane	0.005	0.080	0.001	>99 %
cis-1,3-dichloropropylene	—	0.079	0.001	>99 %
dinoseb	0.007	0.170	0.0002	99 %
endrin	0.002	0.053	0.00059	99 %
ethylbenzene	0.7	0.088	0.001	>99 %
ethylene dibromide (EDB)	0.00005	0.044	0.00002	>99 %
haloacetnitriles (HAN)	—	—	—	—
bromochloroacetnitrile	—	0.022	0.0005	98 %
dibromoacetnitrile	—	0.024	0.0006	98 %
dichloroacetnitrile	—	0.0096	0.0002	98 %
trichloroacetnitrile	—	0.015	0.0003	98 %
haloketones (HK)	—	—	—	—
1,1-dichloro-2-propanone	—	0.0072	0.0001	99 %
1,1,1-trichloro-2-propanone	—	0.0082	0.0003	96 %
heptachlor (H-34, Heptox)	0.0004	0.025	0.00001	>99 %
heptachlor epoxide	0.0002	0.0107	0.0002	98 %
hexachlorbutadiene	—	0.044	0.001	>98 %
hexachlorocyclopentadiene	0.05	0.060	0.00002	>99 %
lindane	0.0002	0.055	0.00001	>99 %
methoxychlor	0.04	0.050	0.0001	>99 %
pentachlorophenol	0.001	0.096	0.001	>99 %
simazine	0.004	0.120	0.004	>97 %
styrene	0.01	0.150	0.0005	>99 %
1,1,2,2-tetrachloroethane	—	0.081	0.001	>99 %
tetrachloroethylene	0.005	0.081	0.001	>99 %
toluene	1	0.078	0.001	>99 %
2,4,5-TP (silvex)	0.05	0.270	0.0016	99 %
tribromoacetic acid	—	0.042	0.001	>98 %
1,2,4-trichlorobenzene	0.07	0.160	0.0005	>99 %
1,1,1-trichloroethane	0.2	0.084	0.0046	95 %
1,1,2-trichloroethane	0.005	0.150	0.0005	>99 %
trichloroethylene	0.005	0.180	0.0010	>99 %
trihalomethanes (THMs)	—	—	—	—
bromodichloromethane (THM)	0.080	0.300	0.015	95 %
bromoform (THM)				
chloroform (THM)				
chlorodibromomethane (THM)				
xylenes (total)	10	0.070	0.001	>99 %

AO-US-100R está certificado por WQA cuando se usa en AO-FF según los estándares 42, 53 y 401 de NSF/ANSI para las afirmaciones de reducción especificadas en la Hoja de datos de rendimiento y en www.WQA.org.



- Se indican todos los contaminantes que reduce este filtro.
- Es posible que no todos los contaminantes indicados estén presentes en su agua.
- No elimina todos los contaminantes que pueden estar presentes en el agua de la llave.
- Los contaminantes incluidos en NSF/ANSI 401 se han considerado compuestos incidentales/emergentes y se han detectado en los suministros de agua potable en niveles mínimos. Estos compuestos pueden afectar la percepción de algunos consumidores sobre la calidad del agua potable.



El filtro solo se debe usar con agua fría.



Los sistemas certificados para la reducción de quistes se pueden usar en aguas desinfectadas que pueden contener quistes filtrables.



Las pruebas se realizaron en condiciones de laboratorio estándar, el rendimiento real puede variar.



Es posible usar sistemas certificados para la reducción de quistes en aguas desinfectadas que puedan tener quistes filtrables.



No usar con agua que no sea microbiológicamente segura o cuya calidad sea desconocida sin la desinfección previa o posterior adecuada del sistema.