

Water Filtration System Performance Data Sheet



Brand: KHAN

Model: P-06CR

This system has been tested and certified by the Water Quality Association according to NSF/ANSI 42, 53, and 58 for the 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, and 58.

Substance	Max. Allowable Concentration (mg/L)	Average Influent (mg/L)	Average Effluent (mg/L)	Minimum Percent Reduction (%)	Average Percent Reduction (%)
Arsenic (Pentavalent)	0.010	0.3512	0.0073	97.2	97.9
Barium	2.0	10.1	0.088	95.7	99.1
Radium 226/228	5pCi/L	25pCi/L	5pCi/L	N/A	N/A
Cadmium	0.005	0.063	0.0016	85.7	97.5
Chromium (Hexavalent)	0.1	0.2945	0.0271	71.2	90.8
Chromium (Trivalent)	0.1	0.3381	0.0017	98.2	99.5
Lead	0.010	0.3274	0.01	96.9	96.9
Selenium	0.05	0.1153	0.007	93.9	93.9
TDS	<187.5	748.4	69.7	88.8	90.7
Aesthetic Chlorine	≥ 50% reduction	2.07	0.56	54.53	72.8
VOC*	≥ 95% reduction	0.3274	0.0008	94.3	99.7

While testing was performed under laboratory conditions, actual performance may vary.

General Operating Information:

Rated Capacity	270 gallons (for VOC) 6,600 gallons (for Aesthetic Chlorine)
Min-Max operating pressure:	17 ~ 120 psi (1.2 ~ 8.4 kgf/cm ²)
Min-Max feed water temperature:	41 ~ 95 °F (5 ~ 35 °C)
Rated Service Flow	0.07 GPM (for VOC) 0.5 GPM (for Aesthetic Chlorine)
Daily Water Production Rate	468.1 GPD
Product Efficiency Rating	59.8 %
Electrical Requirements:	120 Vac / 60Hz

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Refer to the owners manual for specific installation instructions, manufacturer's limited warranty, user responsibility, and parts and service availability.
- The influent water to the system shall include the following characteristics:
 - No organic solvents
 - Chlorine: < 2 ppm
 - pH: 7 - 8
 - Temperature: 41 ~ 95 °F (5 ~ 35 °C)
 - Iron: < 2 ppm
 - Turbidity: < 1 NTU
 - Hardness: < 1000 mg/L

- For parts and service availability, please contact your local dealer or Coway.
- This system has been tested for the treatment of water containing pentavalent arsenic (also known as As(V), As(+5), or arsenate) at concentrations of 0.050 mg/L or less. This system reduces pentavalent arsenic, but may not remove other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual at the system inlet or on water supplies that have been demonstrated to contain only pentavalent arsenic. Treatment with chloramines (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic. Please see the Arsenic Facts section of this Performance Data Sheet for further information.
- Efficiency rating means the percentage of the influent water to the system that is available to the user as reverse osmosis treated water under operating conditions that approximate typical daily usage.
- The product water should be tested every 6 months to ensure that the contaminants are being reduced effectively. Please contact your local dealer or Coway to initiate this service.
- This reverse osmosis system contains a replaceable treatment components, critical for the effective reduction of total dissolved solids and that product water shall be tested periodically to verify that the system is performing properly. Replacement of reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance.
- The estimated replacement time of filter, which is a consumable part, is not an indication of quality guarantee period, but it means the ideal time of filter replacement. Accordingly, the estimated time of filter replacement may be shortened in case it is used in an area of poor water quality.

Model of Filter	Type	Usable period (months)
WJNF12	NEO-SENSE FILTER	6
WJMF12-700	RO MEMBRANE FILTER	24
WJIF 12	INNO-SENSE FILTER	18

ARSENIC FACTS

Arsenic (abbreviated As) is found naturally in some well water. Arsenic in water has no color, taste or odor. It must be measured by a lab test. Public water utilities must have their water tested for arsenic. You can get the results from your water utility. If you have your own well, you can have the water tested. The local health department or the state environmental health agency can provide a list of certified labs. The cost is typically \$15 to \$30. Information about arsenic in water can be found on the Internet at the US Environmental Protection Agency website: www.epa.gov/safewater/arsenic.html

There are two forms of arsenic: pentavalent arsenic (also called As(V), As(+5), and arsenate) and trivalent arsenic (also called As(III), As(+3), and arsenite). In well water, arsenic may be pentavalent, trivalent, or a combination of both. Special sampling procedures are needed for a lab to determine what type and how much of each type of arsenic is in the water. Check with the labs in your area to see if they can provide this type of service.

Reverse osmosis (RO) water treatment systems do not remove trivalent arsenic from water very well. RO systems are very effective at removing pentavalent arsenic. A free chlorine residual will rapidly convert trivalent arsenic to pentavalent arsenic. Other water treatment chemicals such as ozone and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A combined chlorine residual (also called chloramine) may not convert all the trivalent arsenic. If you get your water from a public water utility, contact the utility to find out if free chlorine or combined chlorine is used in the water system.

The P-06CR system is designed to remove pentavalent arsenic. It will not convert trivalent arsenic to pentavalent arsenic. The system was tested in a lab. Under those conditions, the system reduced 0.050 mg/L pentavalent arsenic to 0.010 mg/L (ppm) (the USEPA standard for drinking water) or less. The performance of the system may be different at your installation. Have the treated water tested for arsenic to check if the system is working properly. The RO component of the P-06CR system must be replaced every 24 months to ensure the system will continue to remove pentavalent arsenic. The component identification and locations where you can purchase the component are listed in the installation/operation manual.

* VOC Surrogate Claims

Chemical	Drinking water regulatory level ¹ (MCL/MAC) mg/L	Influent challenge concentration ² mg/L	Chemical reduction percent	Maximum product water concentration mg/L
alachlor	0.002	0.050	> 98	0.001 ³
atrazine	0.003	0.100	> 97	0.003 ³
benzene	0.005	0.081	> 99	0.001 ³
carbofuran	0.04	0.190	> 99	0.001 ³
carbon tetrachloride	0.005	0.078	98	0.0018 ⁴
chlorobenzene	0.1	0.077	> 99	0.001 ³
chloropicrin	-	0.015	99	0.0002 ²
2,4-D	0.07	0.110	98	0.0017 ⁴
dibromochloropropane(DBCP)	0.0002	0.052	> 99	0.00002 ³
o-dichlorobenzene	0.6	0.080	> 99	0.001 ³
p-dichlorobenzene	0.075	0.040	> 98	0.001 ³
1,2-dichloroethane	0.005	0.088	95 ⁵	0.0048 ⁵
1,1-dichloroethylene	0.007	0.083	> 99	0.001 ³
cis-1,2-dichloroethylene	0.07	0.170	> 99	0.0005 ³
trans-1,2-dichloroethylene	0.1	0.086	> 99	0.001 ³
1,2-dichloropropane	0.005	0.080	> 99	0.001 ³
cis-1,3-dichloropropylene	-	0.079	> 99	0.001 ³
dinoseb	0.007	0.170	99	0.0002 ⁴
endrin	0.002	0.053	99	0.00059 ⁴
ethylbenzene	0.7	0.088	> 99	0.001 ³
ethylene dibromide (EDB)	0.00005	0.044	> 99	0.00002 ³
haloacetonitriles (HAN):				
bromochloroacetonitrile	-	0.022	98	0.0005 ³
dibromoacetonitrile	-	0.024	98	0.0006 ³
dichloroacetonitrile	-	0.0096	98	0.0002 ¹
trichloroacetonitrile	-	0.015	98	0.0003 ³
haloketones (HK):				
1,1-dichloro-2-propanone	-	0.0072	99	0.0001 ³
1,1,1-trichloro-2-propanone	-	0.0082	96	0.0003 ³
heptachlor (H-34,Heptox)	0.0004	0.08	> 99	0.0004
heptachlor epoxide	0.0002	0.0107 ⁵	98	0.0002 ²
hexachlorobutadiene	-	0.044	> 98	0.001 ³
hexachlorocyclopentadiene	0.05	0.060	> 99	0.000002 ³
lindane	0.0002	0.055	> 99	0.00001 ³
methoxychlor	0.04	0.050	> 99	0.0001 ³
pentachlorophenol	0.001	0.096	> 99	0.001 ³
simazine	0.004	0.120	> 97	0.004 ¹
styrene	0.1	0.150	> 99	0.0005 ³
1,1,2,2-tetrachloroethane	-	0.081	> 99	0.001 ³
tetrachloroethylene	0.005	0.081	> 99	0.001 ³
toluene	1	0.078	> 99	0.001 ³
2,4,5-TP (silvex)	0.05	0.270	99	0.0016 ⁴
tribromoacetic acid	-	0.042	> 98	0.001 ³
1,2,4-trichlorobenzene	0.07	0.160	> 99	0.0005 ³
1,1,1-trichloroethane	0.2	0.084	95	0.0046 ⁴
1,1,2-trichloroethane	0.005	0.150	> 99	0.0005 ³
trichloroethylene	0.005	0.180	> 99	0.0010 ³
trihalomethanes (includes):				
chloroform (surrogate chemical)				
bromoform				
bromodichloromethane	0.080	0.300	95	0.015
chlorodibromomethane				
xylenes (total)	10	0.070	> 99	0.001 ³

1. These harmonized values were agreed upon by representatives of USEPA and Health Canada for the purpose of evaluating products to the requirements of this Standard.
2. Influent challenge levels are average influent concentrations determined in surrogate qualification testing.
3. Maximum product water level was not observed but was set at the detection limit of the analysis.
4. Maximum product water level is set at a value determined in surrogate qualification testing.
5. Chemical reduction percent and maximum product water level calculated at chloroform 95% breakthrough point as determined in surrogate qualification testing.
6. The surrogate test results for heptachlor epoxide demonstrated a 98% reduction. These data were used to calculate an upperoccurrence concentration which would produce a maximum product water level at the MCL.

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