PERFORMANCE CLAIMS FOR 385 SERIES									
Models	Replac Elem		Operating Pressure Range		Operating Temp- erature Range Rating		Efficiency Rating		
ERO-385, ERO-385E, HERO-385Plus	7278913, 7382762	7382746,	40 -100 PSI (275 - 689 kPa)	40 - 100 (5 - 38		41.8%	26.2%		gal./day ers/day)
NSF/ANSI Stand	dard 42		Minimum Reduct	ion	· , , , , , , , , , , , , , , , , , , ,		eduction	luction Re	
Chlorine Taste & Odor			<0.5 mg/L			97.5	%		Pass
NSF/ANSI Standar	d 473	Influent Ch	allenge Concentration	Maximum F	Permissib	le Concentration	n Overall %	Reduction	Results
Perfluorooctanoic acid ( Perfluorooctane sulfona	Perfluorooctanoic acid (PFOA) & Perfluorooctane sulfonate (PFOS)		1.5 µg/L ±10%		0.07 μg/L		97	97.7%	
NSF/ANSI Standa		Influent Challenge Concentration		Maximum Permissible Concentration		n Overall %	Overall % Reduction		
VOC Surrogate Test		300 μg/L		15 μg/L			99.4%		
MTBE		15 µg/L		5 µg/L		99	99.4%		
NSF/ANSI Standa	rd 58	Influent Challenge Concentration		Maximum F	Maximum Permissible Concentration		n Overall %	Overall % Reduction	
Arsenic (pentavalent)		0.30 mg/L ±10%			0.010 mg/L			98.2%	
Barium		10 mg/L ±10%		2.0 mg/L			97.8%		
Cadmium		0.03 mg/L ±10%		0.005 mg/L		98	98.1%		
Chromium (VI)		0.3 mg/L ±10%		0.1 mg/L		97	97.0%		
Chromium (III)		0.3 mg/L ±10%		0.1 mg/L		98	98.3%		
Copper		3.0 mg/L ±10%			1.3 mg/L		98	98.8%	
Cysts		≥50,0	000 particles/mL		99.95%		99.	99.99%	
Lead		0.1	5 mg/L ±10%		0.010 r	ng/L	99	.1%	Pass
Fluoride		8.0	) mg/L ±10%		1.5 m	g/L	96	.5%	Pass
Nitrate plus Nitrite (as N	1)	30	) mg/L ±10%		10.0 m	ng/L	75	.9%	Pass
Nitrate (as N)		27.	0 mg/L ±10%		10.0 m	ng/L	75	.7%	Pass
Nitrite (as N)		3.0 mg/L ±10%		1.0 mg/L		75	75.8%		
Radium 226/228	Radium 226/228		25 pCi/L ±10%		5 pCi/L		80	80%	
Selenium		0.10 mg/L ±10%		0.05 mg/L		98	98.0%		
Turbidity		11 ±1 NTU		0.5 NTU		99	99.0%		
TDS		750 mg/L ±40		187 mg/L			90.6%		
Ammonium <sup>1</sup>		1.2 mg/L ±10%		_			90%		
Bicarbonate <sup>1</sup>		300 mg/L ±10%		_			96%		
Bromide <sup>1</sup>		1.5 mg/L ±10%		_			9%	Pass	
Chloride <sup>1</sup>		800 mg/L ±10%		_			2%	Pass	
Magnesium <sup>1</sup>		30 mg/L ±10%		_			7%	Pass Pass	
Sodium <sup>1</sup>		350 mg/L ±10%		_			98%		
Sulfate <sup>1</sup>		800 mg/L ±10%		_			98%		
Tannin <sup>1</sup>			) mg/L ±10%		_			7%	Pass
Zinc <sup>1</sup>			5 mg/L ±10%					3%	Pass
NSF/ANSI Standar	d 401		allenge Concentration	Maximum F		le Concentratio		Reduction	Results
Atenolol		1	0 ng/L ±20%		60 ng			.5%	Pass
Bisphenol A		2,000 ng/L ±20%		300 ng/L			.2%	Pass	
Carbamazepine DEET		1,400 ng/L ±20%		200 ng/L			.1%	Pass Pass	
Estrone		1,400 ng/L ±20% 140 ng/L ±20%		200 ng/L 20 ng/L			.2% .9%	Pass	
Ibuprofen		400 ng/L ±20%		60 ng/L			.9% .5%	Pass	
Linuron		140 ng/L ±20%		20 ng/L			.6%	Pass	
Meprobamate		400 ng/L ±20%			60 ng/L			.0%	Pass
Metolachlor		1,400 ng/L ±20%		200 ng/L			.5%	Pass	
Naproxen		140 ng/L ±20%		20 ng/L			.7%	Pass	
Nonyl phenol		1,400 ng/L ±20%		200 ng/L			.4%	Pass	
Phenytoin		200 ng/L ±20%		30 ng/L			.5%	Pass	
TCEP		5,000 ng/L ±20%		700 ng/L		97	.0%	Pass	
TCCP		5,000 ng/L ±20%		700 ng/L			.5%	Pass	
Trimethoprim		14	0 ng/L ±20%		20 ng	g/L	98	.9%	Pass

<sup>&</sup>lt;sup>1</sup> Tested by Spectrum Labs, a qualified independent laboratory, against accepted industry protocol.

VOCs (by surrogate testing using chloroform)	Maximum Permissible Concentration	Effluent/ Unfiltered	Effluent/ Filtered	% Reduction
Alachlor	2.0 μg/L	50 μg/L	1.0 μg/L	>98%
Atrazine	3.0 µg/L	100 μg/L	3.0 µg/L	>97%
Benzene	5.0 μg/L	81 μg/L	1.0 μg/L	99%
Carbofuran	40 μg/L	190 μg/L	1.0 µg/L	>99%
Carbon Tetrachloride	5.0 μg/L	78 μg/L	1.8 µg/L	98%
Chlorobenzene	100 μg/L	77 μg/L	1.0 µg/L	99%
Chloropicrin	NA	15 μg/L	0.2 μg/L	99%
2,4-D	70 μg/L	110 µg/L	1.7 µg/L	98%
Dibromochloropropane (DBCP)	0.2 μg/L	52 μg/L	0.02 µg/L	>99%
o-Dichlorobenzene	600 µg/L	80 μg/L	1.0 µg/L	99%
p-Dichlorobenzene	75 μg/L	40 μg/L	1.0 µg/L	98%
1,2-Dichloroethane	5.0 μg/L	88 μg/L	4.8 µg/L	95%
1,1-Dichloroethylene	7.0 µg/L	83 μg/L	1.0 µg/L	99%
cis-1,2-Dichloroethylene	70 µg/L	170 μg/L	0.5 μg/L	>99%
trans-1,2-Dichloroethylene	100 μg/L	86 µg/L	1.0 µg/L	99%
1,2-Dichloropropane	5.0 μg/L	80 μg/L	1.0 µg/L	99%
cis-1,3-Dichloropropylene	NA NA	79 µg/L	1.0 µg/L	99%
Dinoseb	7.0 µg/L	170 µg/L	0.2 μg/L	99%
Endrin	2.0 µg/L	53 μg/L	0.59 µg/L	99%
Ethylbenzene	700 μg/L	88 µg/L	1.0 µg/L	99%
Ethyl Dibromide (EDB)	0.05 μg/L	44 µg/L	0.02 μg/L	>99%
Haloacetonitriles (HAN)	0.00 p.g/ _	pg. –		
Bromochloroacetonitrile	NA	22 μg/L	0.5 µg/L	98%
Dibromoacetonitrile	NA NA	24 µg/L	0.6 µg/L	98%
Dichloroacetonitrile	NA NA	9.6 µg/L	0.2 µg/L	98%
Trichloroacetonitrile	NA NA	15 μg/L	0.3 µg/L	98%
Haloketones (HK)			0.0 [49/ =	0070
1,1-dichloro-2-propanone	NA	7.2 µg/L	0.1 µg/L	99%
1,1,1-trichloro-2-propanone	NA NA	8.2 µg/L	0.3 µg/L	96%
Heptachlor	0.4 μg/L	25 μg/L	0.01 μg/L	>99%
Heptachlor Epoxide	0.2 μg/L	10.7 μg/L	0.2 µg/L	98%
Hexachlorobutadiene	NA	44 µg/L	1.0 µg/L	98%
Hexachlorocyclopentadiene	50 μg/L	60 μg/L	0.002 µg/L	>99%
Lindane	0.2 μg/L	55 μg/L	0.01 µg/L	>99%
Methoxychlor	40 µg/L	50 μg/L	0.1 μg/L	>99%
Pentachlorophenol	1.0 µg/L	96 µg/L	1.0 µg/L	99%
Simazine	4.0 μg/L	120 µg/L	4.0 µg/L	97%
Styrene	100 µg/L	150 µg/L	0.5 µg/L	>99%
1,1,2,2-Tetrachloroethane	NA	81 µg/L	1.0 µg/L	99%
Tetrachloroethylene	5.0 μg/L	81 µg/L	1.0 µg/L	99%
Toluene	1,000 μg/L	78 µg/L	1.0 µg/L	99%
2,4,5-TP (silvex)	50 μg/L	270 μg/L	1.6 µg/L	99%
Tribromoacetic acid	NA	42 μg/L	1.0 µg/L	98%
1,2,4-Trichlorobenzene	70 μg/L	160 µg/L	0.5 μg/L	>99%
1,1,1-Trichloroethane	200 μg/L	84 μg/L	4.6 μg/L	95%
1,1,2-Trichloroethane	5.0 μg/L	150 µg/L	0.5 μg/L	>99%
Trichloroethylene	5.0 μg/L	180 μg/L	1.0 µg/L	>99%
Chloroform (THM)	υ.υ μ <del>β</del> / Ε	100 μg/L	му. ш	3070
Bromoform (THM)	-			
Bromodichloromethane (THM)	- 80 μg/L	300 μg/L	15 μg/L	95%
Chlorodibromomethane (THM)	1			
. ,	10.000 μα/	70 µg/l	1.0 ug/l	99%
Xylenes (total)	10,000 μg/L	70 μg/L	1.0 μg/L	99%

FILTER	PERFORMANCE DATA FOR 385 SERIES
Flow Rate	0.9 gallons per minute (3.4 liters per minute)
Capacity	310 gallons (1,173 liters)

This system has been tested according to NSF/ANSI standards for the reduction of substances listed above. 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 Standards 42, 53, 58, 401 and 473.

Testing was performed under standard laboratory conditions. Actual performance may vary.

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.

Recovery rating means the percentage of the influent water to the membrane portion of the system that is available to the user as reverse osmosis treated water when the system is operated without a storage tank or when the storage tank is bypassed.

Do not use with water that is microbiologically unsafe or of unknown quality, without adequate disinfection before or after the system. This system is certified for cyst reduction, and may be used on disinfected water that may contain filterable cysts.

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 0.30 mg/L or less. This system reduces pentavalent arsenic, but may not reduce other forms of arsenic. This system shall 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 chloramine (combined chlorine) is not sufficient to ensure complete conversion of trivalent arsenic to pentavalent arsenic. Please see the Arsenic Facts section below for further information.

The compounds certified under NSF/ANSI 401 have been deemed as "incidental contaminants/emerging compounds". Incidental contaminants are those compounds that have been detected in drinking water supplies at trace levels. While occurring at only trace levels, these compounds can affect the public acceptance/perception of drinking water quality.

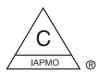
This system has been tested according to NSF/ANSI 58 for reduction of the substances listed above. The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for water leaving the system, as specified in NSF Protocol P473.

This system is acceptable for treatment of influent concentrations of no more than 27 mg/L nitrate and 3 mg/L nitrite in combination, measured as N, and is certified for nitrate/nitrite reduction only for water supplies with a pressure of 280 kPa (40 psig) or greater. This system is supplied with a nitrate/nitrite test kit. Product water should be monitored periodically according to the instructions provided with the test kit.

Systems tested and certified by NSF International against NSF/ANSI Standards 58 and 42 for the reduction of claims as specified in the performance data on page 26.



Systems tested and certified by IAPMO R&T against NSF/ANSI Standards 42, 53, 58, 401 and 473 for the reduction of claims as specified in the performance data on pages 26-29.



### **ARSENIC FACTS**

# **Background**

Arsenic (abbreviated As) can occur naturally in well water. 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]. Although both forms are potentially harmful to human health, trivalent arsenic is considered more harmful than pentavalent arsenic. In well water, arsenic may be pentavalent, trivalent, or a combination of both. Additional information about arsenic in water can be found on the Internet at the U.S. Environmental Protection Agency (USEPA) website:www.epa.gov/safewater/arsenic.html.

### **Testing Your 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.

#### Pentavalent vs. Trivalent Arsenic Removal

These systems are very effective at reducing pentavalent arsenic from drinking water. These models were tested in a lab and proven to reduce 300 parts per billion (ppb) pentavalent arsenic to below 10 ppb, the USEPA standard for safe drinking water.

RO systems are not as effective at reducing trivalent arsenic from water. These models will not convert trivalent arsenic to pentavalent arsenic. If you have <u>free</u> chlorine residual in contact with your water supply for at least one minute any trivalent arsenic will be converted to pentavalent arsenic and reduced by this RO. Other water treatment chemicals such as ozone, and potassium permanganate will also change trivalent arsenic to pentavalent arsenic. A <u>combined</u> 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.

#### **Maintenance**

It is strongly recommended that you follow the maintenance instructions and have your water tested periodically to make sure the system is performing properly. See replacement element information above for recommendations on maintaining your Reverse Osmosis water filtration system.

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Product: EcoWater Systems 385 Series Reverse Osmosis Filter Systems