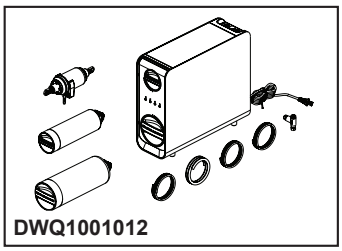


DWQ1001012

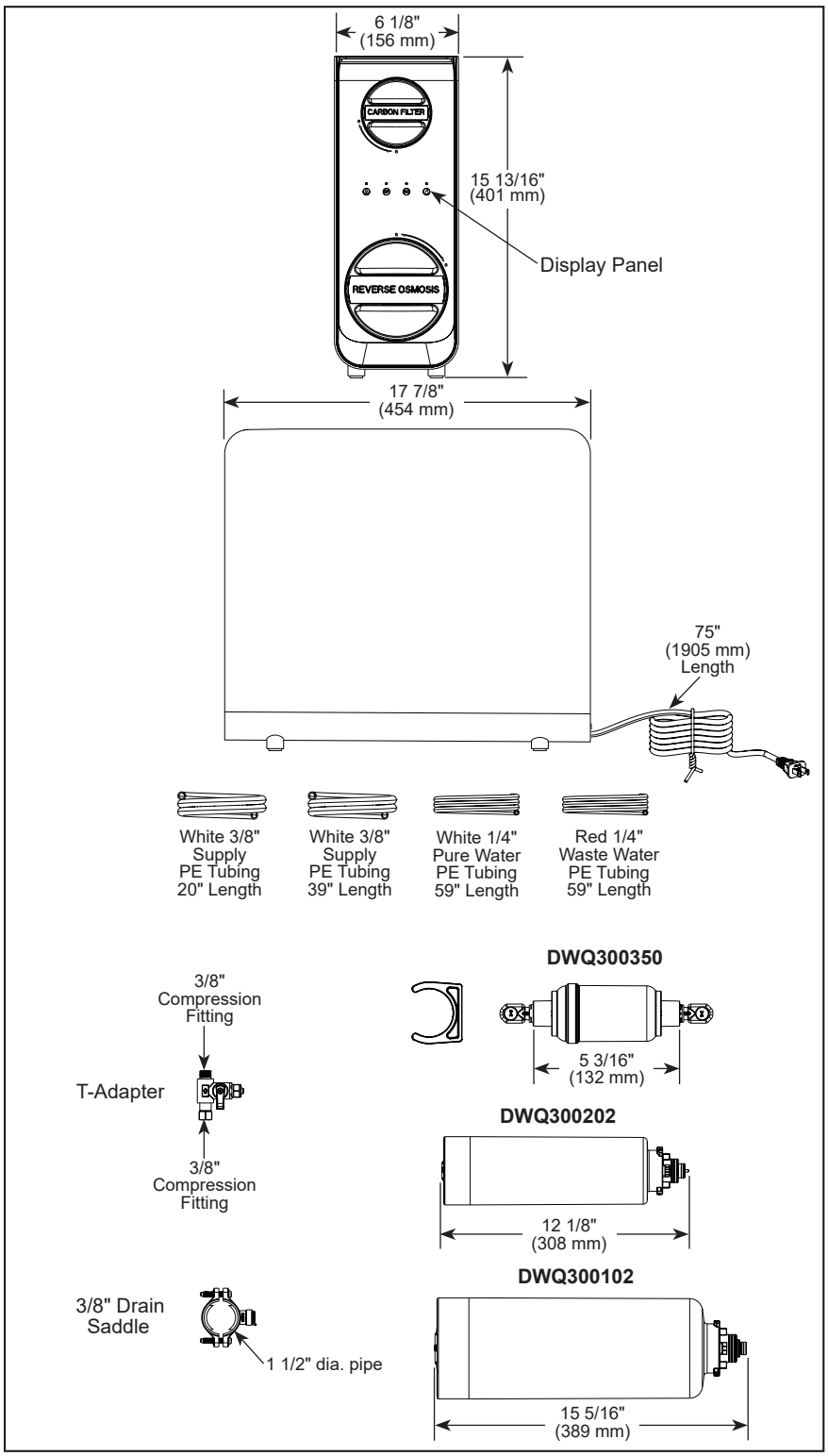
see what Delta can do℠

CLARIFI™ TANKLESS REVERSE OSMOSIS SYSTEM

STANDARD SPECIFICATIONS:

- For cold water installation only
- CLARIFI™ Tankless Reverse Osmosis Water Filtration System offers 6 Stages of filtration using 3 cartridges:
  - Pre-Filter (DWQ300350) Recommended Lifespan - 3,960 gallons or 6 years* whichever comes first
  - Reverse Osmosis Filter (DWQ300102) Recommended Lifespan - 1,320 gallons or 2 years* whichever comes first
  - Carbon Filter (DWQ300202) Recommended Lifespan - 1,320 gallons or 2 years* whichever comes first

  (Filter life dependent on usage)
- Optional 7th Stage of filtration using the remineralizer cartridge available for enhanced taste and pH balance - DWQ300300
- Key Specifications:
  - Feed Water Pressure: 20-80 PSI (0.14-0.6 MPa)
  - Feed Water Temperature: 41-100˚F (5-38˚C)
  - Daily Production Rate: 600 GPD (2270 L/day)
  - Rated Capacity: 1320 gallons (5000 Liters)
  - Rated Filtered Water Flow Rate: 0.42 GPM (1.58 L/min)
  - System Efficiency Rating: 78%
- Certified reduction of more than 90 contaminants from drinking water when tested against NSF standards, including: lead, total PFAS, arsenic, chlorine, chromium, copper, TDS, mercury, microplastics, pharmaceuticals, and heavy metals
- Tankless under sink installation and compact design
- 2:1 Filtered-to-waste ratio
- Integrated filter life tracking and leak detection
- Requires 120VAC power supply outlet
- Recommended installation with a Delta Reverse Osmosis Beverage Faucet with integrated airgap
- For specific performance claims refer to the Performance Data Sheet section (page 2 and 3)
- Refer to the installation manual for more specific installation and electrical requirements
- This system is intended for use on water supplies that have been treated to public water system standards or on private well water that has been verified as microbiologically safe.



WARRANTY

- This Delta® reverse osmosis system is warranted to the original consumer purchaser or commercial user, as applicable, to be free from defects in material and workmanship for the applicable period specified below:
  - Reverse Osmosis Machine and Components: Five (5) years from the date the product was received by the original consumer purchaser or their authorized representative (installation contractor, etc.)
  - Pre-Filter, Filter Cartridge and Remineralizer: Thirty (30) days from the date that the product is received by the original purchaser or their authorized representative (installation contractor, etc.)
- Please go to www.deltafaucet.com for the complete details of our limited warranty.

COMPLIES WITH:

- This system has been certified by IAPMO R&T against: ASSE 1086, NSF/ANSI 372, 42, 53, 58, 401 and 244 for the reduction of substances for specific performance claims as verified and substantiated by test data. Refer to the Performance Data Sheet for more information.
- EPA WaterSense®

NRTL

UL 979

Delta Faucet Company reserves the right (1) to make changes in specifications and materials, and (2) to change or discontinue models, both without notice or obligation. Dimensions are for reference only. See current full-line price book or www.deltafaucet.com for finish options and product availability.

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PERFORMANCE DATASHEET CLARIFI™ TANKLESS REVERSE OSMOSIS SYSTEM*							
Model	**Replacement**	**Operating Pressure Range**	**Operating Temperature Range**	**Efficiency Rating****	**Rated Flow**	**Daily Production (DPR)**	**Rated Capacity**
DWQ1001012	DWQ300102 Reverse Osmosis Filter Cartridge DWQ300202 Carbon Filter Cartridge	20 - 80 PSI (0.14 - 0.6 Mpa)	41 - 100˚F (5 - 38˚C)	≥78%	0.42 GPM (1.58 L/min)	600 GPD (2270 L/day)	1320 Gallons (5000 L)
This system has been tested according to NSF/ANSI 42, 53, 58, 401 and 244 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, 58, 401 and 244.							

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

**Efficiency Rating means the percentage of the influent water to the membrane portion of the system that is available to the user as RO treated water when the system is operated without a storage tank or when the storage tank is bypassed.

Performance Data Sheet										
Applies To	**Applicable Standard**	**Substance**	**Influent Challenge Concentration**		**Maximum Permissible Product Water Concentration**		**Minimum Permissible % Reduction**	**Average Product Water Concentration**		**Average Product Contaminant % Reduction**
DWQ300202	NSF/ANSI 42	chloramine [a]	3.0 ± 10%	mg/L	-	mg/L	≥ 80%	0.13	mg/L	95.6%
		chlorine [b]	2.0 ± 10%	mg/L	-	mg/L	≥ 50%	0.09	mg/L	95.6%
		particulate, Class I particles 0.5 to <1 µm	>10,000	particles/mL	-	-	≥ 85%	-	-	96.5%
	NSF/ANSI 53 [g]	per- and polyfluoroalkyl substances (PFAS)[c]								
		total PFAS [d,e]	2.16 ± 20%	µg/L	0.02	µg/L	-	0.006	µg/L	99.7%
		chloroform (chemical surrogate for VOC)	0.300 ± 30%	mg/L	-	mg/L	95.0%	0.0032	µg/L	98.9%
	NSF/ANSI 401	atenolol	200 ± 20%	ng/L	30	ng/L	-	1.0	ng/L	99.5%
		Bisphenol A (BPA)	2000 ± 20%	ng/L	300	ng/L	-	92.3	ng/L	95.5%
		carbamazepine	1400 ± 20%	ng/L	200	ng/L	-	10.0	ng/L	99.3%
		DEET (diethyltoluamide)	1400 ± 20%	ng/L	200	ng/L	-	10.0	ng/L	99.3%
		estrone	140 ± 20%	ng/L	20	ng/L	-	4.0	ng/L	97.4%
		ibuprofen	400 ± 20%	ng/L	60	ng/L	-	15.4	ng/L	96.1%
		linuron	140 ± 20%	ng/L	20	ng/L	-	1.0	ng/L	99.3%
		meprobamate	400 ± 20%	ng/L	60	ng/L	-	1.3	ng/L	99.7%
		metolachlor	1400 ± 20%	ng/L	200	ng/L	-	17.8	ng/L	98.8%
		microplastics, particles 0.5 to <1 µm [f]	>10,000	particles/mL	-	-	85.0%	-	-	96.8%
		naproxen	140 ± 20%	ng/L	20	ng/L	-	4.5	ng/L	97.0%
		nonylphenol	1400 ± 20%	ng/L	200	ng/L	-	34.6	ng/L	97.6%
		phenytoin	200 ± 20%	ng/L	30	ng/L	-	9.3	ng/L	95.5%
		TCPP (tris(1-chloro-2-propyl)phosphate)	5000 ± 20%	ng/L	700	ng/L	-	29.6	ng/L	99.4%
		trimethoprim	140 ± 20%	ng/L	20	ng/L	-	1.0	ng/L	99.3%

a. As monochloramine (measured as Cl2/L).

b. Reduction as calculated based on chloramine as the surrogate chemical.

c. For PFAS, the individual influent tolerance is ± 30%.

d. The test mixture for total PFAS is made up of PFOA (500 ppt), PFOS (1,000 ppt), PFHxS (300 ppt), PFNA (50 ppt), PFHpA (40 ppt), PFBS (260 ppt), and PFDA (10 ppt).

e. This effluent value is based on the MCLs or health advisories in force in several New England States for a total PFAS level of 0.02 µg/L.

f. There is no rated capacity for microplastics due to the broad variation in the quantity of particulate matter found in drinking water.

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

Performance Data Sheet Continued										
Applies To	Applicable Standard	Substance	Influent Challenge Concentration		Maximum Permissible Product Water Concentration		Minimum Permissible % Reduction	Average Product Water Concentration		Average Product Contaminant % Reduction
DWQ300102 in DWQ1001012	NSF/ANSI 58	arsenic (pentavalent) [a]	0.30 ± 10%	mg/L	0.01	mg/L	-	0.002	µg/L	99.3%
		asbestos, fibers greater than 10 µm	107 to 108	fibers/L	-	-	99.0%	-	-	99.999%
		barium	10.0 ± 10%	mg/L	2	mg/L	-	0.267	mg/L	97.1%
		cadmium	0.03 ± 10%	mg/L	0.005	mg/L	-	0.001	mg/L	97.0%
		chromium (trivalent)	0.3 ± 10%	mg/L	0.1	mg/L	-	0.001	mg/L	99.7%
		chromium (hexavalent)	0.3 ± 10%	mg/L	0.1	mg/L	63.0%	0.004	mg/L	98.7%
		copper	3.0 ± 10%	mg/L	1.3	mg/L	-	0.001	mg/L	99.97%
		cyst	>50,000	cysts/mL	-	-	99.95%	-	-	99.998%
		fluoride	8.0 ± 10%	mg/L	1.5	mg/L	-	0.7	mg/L	91.1%
		lead	0.15 ± 10%	mg/L	0.005	mg/L	-	0.0010	mg/L	99.3%
		mercury	0.006 ± 10%	mg/L	0.002	mg/L	-	0.0001	mg/L	97.9%
		nitrate (as N) [b]	27.0 ± 10%	mg/L	10	mg/L	-	0.7	mg/L	97.6%
		nitrate plus nitrite (both as N) [b]	30.0 ± 10%	mg/L	10	mg/L	-	0.8	mg/L	97.5%
		nitrite (as N) [b]	3.0 ± 10%	mg/L	1	mg/L	-	0.1	mg/L	95.3%
		radium 226/228	25 ± 10%	pCi /L	5	pCi /L	-	5.0	pCi /L	80.0%
		selenium	0.10 ± 10%	mg/L	0.05	mg/L	-	0.003	µg/L	97.2%
		TDS [c]	750 ± 40	mg/L	187	mg/L	-	51.5	mg/L	93.2%
		per- and polyfluoroalkyl substances (PFAS) [d]								
		total PFAS [e, f]	2.16 ± 20%	µg/L	0.02	µg/L	-	0.01	µg/L	99.5%
		turbidity	11 ± 1	NTU	0.5	NTU	-	0.4	NTU	96.7%
	NSF/ANSI 244 [g, h, i]	bacteria	10^4 to 10^5	CFU/ 100 mL	100	CFU/ 100 mL	99.9%	-	-	99.99%
		virus	10^4 to 10^5	PFU /mL	1,000	PFU/ mL	99.9%	-	-	99.995%
		cyst	(bacteria and virus surrogate cyst reduction per Section 7.2.2.2)		-	-	Maximum cyst reduction claim ≥ 99.9% (≥ 3 log)	-	-	99.95%

a. 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 remove other forms of arsenic. This system is to be used on water supplies containing a detectable free chlorine residual 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 of the Installation Instructions for further information

b. 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 210 kPa (30 psig) or greater.

c. This reverse osmosis system contains replaceable treatment components critical for effective reduction of TDS. The product water shall be tested periodically to verify that the system is performing satisfactorily.

d. For PFAS, the individual influent tolerance is ± 30%.

e. The test mixture for total PFAS is made up of PFOA (500 ppt), PFOS (1,000 ppt), PFHxS (300 ppt), PFNA (50 ppt), PFHpA (40 ppt), PFBS (260 ppt), and PFDA (10

f. This effluent value is based on the MCLs or health advisories in force in several New England States for a total PFAS level of 0.02 µg/L.

g. Do not use with water that is microbiologically unsafe or of unknown quality. This system is not intended for use during a boil water advisory. Stop using this system when a boil water advisory is issued. After a boil water advisory has been discontinued and prior to reuse, and service the system as directed in the owner's manual.

h.This system is intended for use on water supplies that have been treated to public water system standards or on private well water that has been verified as microbiologically safe. For private wells, do not use this system until the water has been tested by a certified or accredited drinking water laboratory to confirm microbial safety (e.g., no total coliform present) in accordance with applicable regulatory standards. Ongoing microbiological testing of well water entering the system is the responsibility of the user and is recommended at a minimum of twice per year to ensure continued compliance. **FOR USE ON PRIVATE WELLS:** If testing indicates that a private well source has become microbiologically contaminated, discontinue use of this device until appropriate well treatment and subsequent testing confirm that the water again meets applicable regulatory standards. Proper sanitization and servicing, as directed in the owner's manual, should be performed following a positive total coliform test result or after maintenance of the well or plumbing system.

i. This system has been tested according to NSF/ANSI 244 for reduction of pathogenic (disease-causing) bacteria, viruses and cysts. The concentration of the indicated bacteria and virus surrogates in water entering the system was reduced to meet the reduction criteria, as specified in NSF/ANSI 244. The bacteria and virus surrogate reduction indicates verification of cyst reduction.

Volatile Organic Chemicals (VOCs) included by surrogate testing of chloroform									
Applies To	Applicable Standard	Chemical	Drinking water regulatory level (MCL/MAC)[a]		Influent challenge concentration[b]		Chemical reduction percent	Maximum product water concentration	
DWQ300202	NSF/ANSI 53	alachlor[c]	0.002	mg/L	0.05	mg/L	> 98	0.001	mg/L
		atrazine[c]	0.003	mg/L	0.1	mg/L	> 97	0.003	mg/L
		benzene[c]	0.005	mg/L	0.081	mg/L	> 99	0.001	mg/L
		carbofuran[c]	0.04	mg/L	0.19	mg/L	> 99	0.001	mg/L
		carbon tetrachloride[d]	0.005	mg/L	0.078	mg/L	98	0.0018	mg/L
		chlorobenzene[c]	0.1	mg/L	0.077	mg/L	> 99	0.001	mg/L
		chloropicrin[c]	—	—	0.015	mg/L	99	0.0002	mg/L
		2,4-D[d]	0.07	mg/L	0.11	mg/L	98	0.0017	mg/L
		dibromochloropropane (DBCP)[c]	0.0002	mg/L	0.052	mg/L	> 99	0.00002	mg/L
		o-dichlorobenzene[c]	0.6	mg/L	0.08	mg/L	> 99	0.001	mg/L
		p-dichlorobenzene[c]	0.075	mg/L	0.04	mg/L	> 98	0.001	mg/L
		1,2-dichloroethane[e]	0.005	mg/L	0.088	mg/L	95 [e]	0.0048	mg/L
		1,1-dichloroethylene[c]	0.007	mg/L	0.083	mg/L	> 99	0.001	mg/L
		cis-1,2-dichloroethylene[c]	0.07	mg/L	0.17	mg/L	> 99	0.0005	mg/L
		trans-1,2-dichloroethylene[c]	0.1	mg/L	0.086	mg/L	> 99	0.001	mg/L
		1,2-dichloropropane[c]	0.005	mg/L	0.08	mg/L	> 99	0.001	mg/L
		cis-1,3-dichloropropylene[c]	—	—	0.079	mg/L	> 99	0.001	mg/L
		dinoseb[d]	0.007	mg/L	0.17	mg/L	99	0.0002	mg/L
		endrin[d]	0.002	mg/L	0.053	mg/L	99	0.00059	mg/L
		ethylbenzene[c]	0.7	mg/L	0.088	mg/L	> 99	0.001	mg/L
		ethylene dibromide (EDB)[c]	0.00005	mg/L	0.044	mg/L	> 99	0.00002	mg/L
		haloacetonitriles (HAN)[c] bromochloroacetonitrile[c] dibromoacetonitrile[c] dichloroacetonitrile[c] trichloroacetonitrile[c]	—	—	0.022 0.024 0.0096 0.015	mg/L	98 98 98 98	0.0005 0.0006 0.0002 0.0003	mg/L
		haloketones (HK)[c] 1,1-dichloro-2-propanone[c] 1,1,1-trichloro-2-propanone[c]	—	—	0.0072 0.0082	mg/L	99 96	0.0001 0.0003	mg/L
		heptachlor (H-34, Heptox)	0.0004	mg/L	0.025	mg/L	> 99	0.00001	mg/L
		heptachlor epoxide[f]	0.0002	mg/L	0.0107 [f]	mg/L	98	0.0002	mg/L
		hexachlorobutadiene[c]	—	—	0.044	mg/L	> 98	0.001	mg/L
		hexachlorocyclopentadiene[c]	0.05	mg/L	0.06	mg/L	> 99	0.000002	mg/L
		lindane[c]	0.0002	mg/L	0.055	mg/L	> 99	0.00001	mg/L
		methoxychlor[c]	0.04	mg/L	0.05	mg/L	> 99	0.0001	mg/L
		pentachlorophenol[c]	0.001	mg/L	0.096	mg/L	> 99	0.001	mg/L
		simazine[c]	0.004	mg/L	0.12	mg/L	> 97	0.004	mg/L
		styrene[c]	0.1	mg/L	0.15	mg/L	> 99	0.0005	mg/L
		1,1,2,2-tetrachloroethane[c]	—	—	0.081	mg/L	> 99	0.001	mg/L
		tetrachloroethylene[c]	0.005	mg/L	0.081	mg/L	> 99	0.001	mg/L
		toluene[c]	1	mg/L	0.078	mg/L	> 99	0.001	mg/L
		2,4,5-TP (silvex)[d]	0.05	mg/L	0.27	mg/L	99	0.0016	mg/L
		tribromoacetic acid[c]	—	—	0.042	mg/L	> 98	0.001	mg/L
		1,2,4-trichlorobenzene[c]	0.07	mg/L	0.16	mg/L	> 99	0.0005	mg/L
		1,1,1-trichloroethane[d]	0.2	mg/L	0.084	mg/L	95	0.0046	mg/L
		1,1,2-trichloroethane[c]	0.005	mg/L	0.15	mg/L	> 99	0.0005	mg/L
		trichloroethylene[c]	0.005	mg/L	0.18	mg/L	> 99	0.0010	mg/L
		trihalomethanes (includes): chloroform (surrogate chemical) bromoform bromodichloromethane chlorodibromomethane	0.08	mg/L	0.3	mg/L	95	0.015	mg/L
		xylenes (total)[c]	10	mg/L	0.07	mg/L	> 99	0.001	mg/L

a These harmonized values were agreed upon by representatives of U.S. EPA and Health Canada for the purpose of evaluating products to the requirements of this standard.

b Influent challenge levels are average influent concentrations determined in surrogate qualification testing.

c Maximum product water level was not observed but was set at the detection limit of the analysis.

d Maximum product water level is set at a value determined in surrogate qualification testing.

e Chemical reduction percent and maximum product water level calculated at chloroform 95% breakthrough point as determined in surrogate qualification testing.

f The surrogate test results for heptachlor epoxide demonstrated a 98% reduction. These data were used to calculate an upper occurrence concentration that would produce a maximum product water level at the Maximum Contaminent Level (MCL).