

PERFORMANCE DATA SHEET

ODF-501 OBIE DRINKING WATER FILTER



ODF-501 Replacement Cartridge Part No. ODF-RC-501

Read this Performance Data Sheet and compare the capabilities of this unit with your actual drinking water needs. Bear in mind that this system is your final barrier of protection against unknown contaminant's which may be affecting your water supply.

Water Testing: If your water has an aesthetic problem - one you can see, taste or smell - your senses are your most reliable resource. If you have read about or suspect volatile organic chemicals, chlorinated by-products or lead contamination you may want to have your water tested. But be careful...water testing can be expensive. A complete analysis of hundreds of contaminant's that may be in water can cost hundreds of dollars, or even thousands of dollars. A better ...and lessexpensive alternative is to have your water tested only for common water contaminant's, or for contaminant's you have read about or know are likely to be in your water. Additionally, they may not be as conclusive as you might like, since contaminant levels can vary from day to day and week to week. Taking a specific sample at any given time may yield a falsely good (or bad) result.

Private water supply: Having your water tested may be your only way of knowing for sure what health related contaminant's might be present. Local health departments only test for a limited range of contaminant's like bacteria to approve the well for potable water.

Public Water supply: Which service more that 3/4 of the population in the America are already tested, following state and federal guidelines and law and are available for the asking from your water supply company/utility. These guidelines and laws do not cover every known contaminant that may be affecting your water source.

Water the Way you Want It: Many times it is a better investment, both in terms money and peace of mind, to invest in a quality drinking water system that solves a wide range of problems that you may or may not have or know about.

Health Claim Performance - This system certified to CSA B483,1 and NSF/ANSI 42 and 53 for specific performance claims as verified and substantiated by test data : 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 and 53.

Substance	Influent Challenge Concentration	Min % Reduction Requirement/ Max Permissible Product Water Concentration	Minimum Reduction	Average Reduction
Standard 42 - Aesthetic Effects				
Chlorine	2.0 mg/L +/-10%	>=50%	99.0%	99.0%
Particulate Class 1 Particles 0.5-1.0 micron	>10,000 particles / mL	>=85%	88.2%	88.9%
Standard 53 - Health Effects				
Chloroform (VOC surrogate chemical)	300ug/L +/-10%	>= 95%	99.1%	99.8%
MTBE (Methyl tert-Butyl Ether)	0.015mg/L +/-20%	<=0.005mg/L	93.5%	95.6%
TTHM (as chloroform)	0.450mg/L +/-10%	<=0.080/mg/L	99.9%	99.9%
Turbidity	10.0-12.0 NTU s	<=0.5NTU	99.05%	99.05%
Cysts (Giardia, Cryptosporidium, Entamoeba, Toxoplasma)	>50,000 /L	>= 99.95%	99.97%	99.98%
Lead 6.5 pH	0.15mg/L +/-10%	<=0.010	99.1%	99.7%
Lead 8.5 pH	0.15mg/L +/-10%	<=0.010	99.4%	99.8%

Performance Data Sheet Reduction Claims for Organic Chemicals Included by Surrogate Testing

Substance	Influent Challenge Concentration mg/L	Maximum permissible Product Water Concentration mg/L
alachlor	0.050	0.001
atrazine	0.100	0.003
benzene	0.081	0.001
carbofuran	0.190	0.001
carbon tetrachloride	0.078	0.0018
Chlorobenzene	0.077	0.001
chloropicrin	0.015	0.0002
2,4D	0.110	0.0017
dibromochloropropane (DBCP)	0.062	0.00002
o-dichlorobenzene	0.080	0.001
p-dichlorobenzene	0.040	0.001
1,2-dichloroethane	0.088	0.0048
1,1-dichloroethylene	0.083	0.001
cis-1,2-dichloroethylene	0.170	0.0005
trans-1,2-dichloroethylene	0.086	0.001
1,2-dichloropropane	0.080	0.001
cis-1,3-dichloropropylene	0.079	0.001
dinoseb	0.170	0.0002
dieldrin	0.053	0.00069
ethylbenzene	0.088	0.001
ethylene dibromide (E12B)	0.044	0.00002
haloacetonitriles (HAN):		
bromochloroacetonitrile	0.022	0.0006
dibromoacetonitrile	0.024	0.0006
dichloroacetonitrile	0.0096	0.0002
trichloroacetonitrile	0.015	0.0003
haloketones (HK)		
1,1-dichloro-2-propanone	0.0072	0.0001
1,1,1-trichloro-2-propanone	0.0082	0.0003
heptachlor	0.25	0.00001
heptachlor epoxide	0.0107	0.0002
hexachlorobutadiene	0.044	0.001
hexahydrocyclopentadiene	0.080	0.000002
lindane	0.065	0.00001
methoxychlor	0.050	0.0001
pentachlorophenol	0.096	0.001
simazine	0.120	0.001
styrene	0.150	0.0005
1,1,2,2-tetrachloroethane	0.081	0.001
tetrachloroethylene	0.081	0.001
toluene	0.078	0.001
2,4,5-TP (silvex)	0.270	0.0016
tribromoacetic acid	0.042	0.001
1,2,4-trichlorobenzene	0.160	0.0005
1,1,1-trichloroethane	0.084	0.0048
1,1,2-trichloroethane	0.150	0.0005
trichloroethylene	0.180	0.001
trihalomethanes (includes):		
chloroform (surrogate chemical)		
bromoform	0.300	0.015
bromodichloromethane		
chlorodibromomethane		
xylenes (total)	0.070	0.001

Operating Specifications

- *Capacity: 500 gallons (1890L)
- *Lead removal up to 1585 gallons (rated capacity), as tested by WQA.
- *Pressure requirements: 30-125 psi (2.1-8.6 bar), non-shock
- *Temperature: 35-100 degrees F (2-38 degrees C)
- *Flow Rate: 1.5 gpm (5.7 Lpm)

Features of Product

- ***High Flow Rate** 1.5 gpm
- ***Exclusive & Sanitary, Quick Change Cartridge**
- ***Fine Filtration** produces a premium quality water for drinking, cooking, ice and food preparation.
- ***Reduces Chlorine** taste and odor
- ***Reduces dirt, rust, and other particulates**
- ***Reduces parasitic protozoan cysts**, such as Giardia, Entamoebia and Cryptosporidium.
- ***Reduces lead** to below Federal Action level(2)
- ***Effectively reduces methyl tertiary-butyl ether (MTBE)**
- ***Effectively reduces volatile organic chemicals (VOC's)**, including trihalomethanes (TTHM's)
- ***Filter Protection** - NSF-certified for food and water uses: Silver Zeolite Technology blend throughout the filter using ion exchange to "manage" the silver release, giving optimum efficacy and longevity for filter protection.
- ***Limescale protection** against hard water minerals that form scale on water using appliances. (1)

- (1) Limescale Not certified by WQA
- (2) Capacity testing for Lead was independently tested by WQA for >3000 gallons!

LIMITED WARRANTY

Obie warrants this product to be free of defects in workmanship or materials for twelve months from date of purchase or 24 months from date of manufacture. This warranty extends only to the original consumer and does not cover products which malfunction due to neglect or unauthorized modification. Warranty does not cover in-house labor or other labor charges.

The unit must be used in operating conditions that conform to Obie's recommended design guidelines. This warranty will not apply if the unit has been modified, repaired or altered by someone not authorized by Obie. We are not responsible for damage caused by accident, fire, flood, freezing, Act of God, misuse, misapplication, neglect, oxidizing agents or operation contrary to printed instructions, or by the use of accessories or components not recommended in our installation guide.

System is not warranted to perform on a non-potable water source, or a water source which does not meet the conditions for use described in the installation guide or performance data sheet for these products. Water characteristics can vary seasonally or over a period of time. Obie recommends having your water tested from time to time for any health related type contaminant that you are concerned with or that may be in your water supply before or after this unit.

OUR OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED TO THE REPAIR OR REPLACEMENT(AT OBIE'S DISCRETION) OF THE FAILED PARTS OF THE SYSTEM, AND WE ASSUME NO LIABILITY WHATSOEVER FOR DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL, GENERAL OR OTHER DAMAGES.

This Warranty is given in lieu of all other warranties expressed or implied, written or oral. No employee, agent, dealer, or other person is authorized to give any warranties on behalf of Obie. NOTE: Some states do not allow limitation on how long an implied warranty lasts so the above limitation may not apply to you. Similarly some states do not allow the exclusion or limitation of consequential or incidental damages so the above limitation or exclusions

may not apply to you. This warranty gives you special legal rights. You may also have other rights which may vary from state to state. Proof of purchase must accompany all merchandise returns if more than 12 months from date of Manufacture.

General Installation/Operation/Maintenance Requirements

- *Space required: 5 x 5 x 23 in. (13 x 13 x 53 cm) including 2.5 inches of clearance under unit for cartridge change.
- *Recommended to install vertically
- *Flush new cartridge at full flow for several minutes until water runs clear.
- * Replace cartridge when capacity is reached, or when flow becomes too slow, but at least once per year.

Other Notices

- *Installation instructions, parts and service availability, and standard warranty included with each system.
- * This system must be maintained according to manufacturer's instructions, including replacement of filter cartridge.

Additional important NOTES:

- * Do not use with water that is microbiologically unsafe, or of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.
- *The contaminant's or other substances reduced by this water treatment system are not necessarily in your water.
- *Check for compliance with state and local laws and regulations.
- *System tested under standard laboratory conditions, actual performance may vary.

BUYER

SELLER

DATE


This system certified to CSA B483.1, NSF/ANSI 42 and 53 for specific performance claims as verified and substantiated by test data :

Std. No. 42 - Aesthetic effects
Chemical Reduction
 Taste and odor
 Chlorine Taste and odor

Mechanical Filtration
 Particulate Class 1

Std No. 53 - Health effects
Chemical Reduction
 Lead
 MTBE
 THM's
 VOC

Mechanical Filtration
 Turbidity
 Cyst





INSTALLATION INSTRUCTIONS

Obie Water Filter System mounting/location details: The systems are designed for under the sink installation. Optional basement or utility area is OK, however additional 3/8" tubing and fittings will be required.

- 1) Install filter cartridge into the head assembly using cartridge installation instructions.
 - a. Using a water proof marker write the date installed on the cartridge label.
 - b. Install filter inlet/outlet Swivel fittings on head assembly
 - c. Apply 3-4 wraps of Teflon tape onto 3/8" NPT Male threads
- 2) Screw fittings into female 3/8" NPT fittings (inlet & outlet) on head assembly until finger tight (approximately one-two turns).
 - a. Caution: Models ODF-501 and ODF-502 use white swivel fitting for inlet and black swivel fitting for outlet. Model ODF-540 use black swivel fitting with white collets for outlet.
- 3) To insure seal continue one to two more turns past finger tight.
- 4) Total number of turns from start to finish need not exceed five turns. Do not over tighten.
- 5) Position system with cartridge, head assembly (with fittings) and mounting bracket to desired location. It is recommended to mount top of bracket 23" off floor to accept our longest replacement cartridge (ODF-501)
 - a. Allow a clearance of 2-1/2" minimum below cartridge for removing and replacement.
 - b. Allow sufficient clearance on each side for inlet/outlet fittings to swivel freely 180 degrees.
 - c. Use a dark colored marker to mark positions of screw eyelets (mounting bracket) on mounting wall.
 - d. Insert screws into wall at marks, which will hold the filter leaving enough screw head to insert mounting bracket into eyelets. (note wood screws provided)

NOTE: Unit can weigh up to 10 lbs. with water so be sure the wall is strong enough to hold the weight.

- e. Secure complete system by tightening the mounting bracket screws.

Select the installation choice below for using: Existing cold water sink faucet or Separate dispensing tap !

INSTALLATION USING EXISTING COLD WATER SINK FAUCET

A: Installing the water supply fittings: Turn off cold water supply line. If cold water line does not have a shut-off valve under the sink, you should install one.

- 1) Open the cold water faucet and allow all the water to drain from line.
- 2) For cold water lines that use tubing (plastic or soft copper) follow these instructions. For flexible hose installation that uses 3/8" NPS compression connection, go to step 8. Do not complete steps 3-7.
- 3) Cut tubing a minimum of 2" above the existing cold water stop valve and remove any burrs.
- 4) Mark this length of tubing 3/4" from top as a guide for inserting into the new supply valve elbow's quick connect fitting.
- 5) Insert tubing into bottom of the new supply valve elbow to insertion line.
- 6) Mark the supply line previously connecting the cold water to the faucet 3/4" from the bottom as a guide for inserting into the union fitting.
- 7) Insert this tube into one end of union connector fitting to the insertion line.
- 8) For Flexible hose installation from step 2.
- 9) Disconnect cold water line from existing 3/8" NPS stop valve

- 10) Apply 3-4 wraps of Teflon tape onto Male threads of the existing 3/8" NPS Stop valve male fitting.
- 11) Connect Faucet adapter female fitting to existing stop valve. Do not over tighten.
- 12) Push tube end of Faucet Adapter female fitting into bottom of new supply valve
- 13) Apply 3-4 wraps of Teflon tape onto male threads of the flexible hose fitting currently connected to the cold sink faucet.
- 14) Connect this hose to the 3/8" Faucet male adapter. Do not over tighten.
- 15) Push tube end of Faucet adapter into union connector.

B: Connecting the water supply and existing sink faucet to Filter.

INLET Fitting:

- 1) Determine the length of plastic tubing (3/8" tubing 5' supplied with system) needed to connect the inlet (left side) of the filter with the supply valve.
 - a. Be sure to allow enough tubing to prevent kinking and cut the tubing squarely and remove all burrs. Place a mark 3/4" from end of tubing.
 - b. Wet tubing with water and insert into outlet of supply valve (3/4") until mark is flush with fitting.
 - c. Place a mark on the other end 3/4" from end of tubing.
 - d. Insert tubing into inlet of system fitting to insertion mark.

OUTLET Fitting:

- 2) Determine the length of tubing (3/8" tubing supplied) with system to make the connection from the outlet fitting of filter to 3/8" x 3/8" union fitting. A 3' minimum length is suggested to connect accessories into this line.
 - a. Place a mark 3/4" from end of tubing.
 - b. Wet tubing with water and insert into union until mark (3/4") is flush with union fitting connected to tube/hose.
- 3) Double check that the water supply is directed to the filter inlet and the outlet is directed to the sink cold faucet line.

Go to Placing Filter in Operation section

INSTALLATIONS USING SEPARATE DISPENSING TAP

A: Installing the Water supply fittings: Turn off cold water supply line. If cold water line does not have a shut-off valve under the sink, you should install one.

- 1) Turn on the cold water faucet and allow all the water to drain from line.
- 2) For cold water lines that use tubing (plastic or soft copper) follow these instructions. For flexible hose installation that use 3/8" NPS compression connection go to step 6. **Do not complete steps 3-5.**
- 3) Cut 1-3/8" section out of tubing a minimum of 2" above the existing cold water stop valve and removes any burrs.
- 4) Mark both sections 3/4" from the ends as a guide for inserting into the new supply valve quick connect fittings.
- 5) Insert tubing into bottom & top of this valve to insertion line.
- 6) For Flexible hose installation from step 2.
- 7) Disconnect cold water line from existing 3/8" NPS stop valve
- 8) Apply 3-4 wraps of Teflon tape onto Male threads of the existing 3/8" NPS stop valve.
- 9) Connect the faucet female adapter to existing stop valve. Do not over tighten.
- 10) Push tube end of Faucet female adapter into bottom of the new supply valve to insertion line.

- 11) Apply 3-4 wraps of Teflon tape onto male threads of Faucet male adapter.
- 12) Using the supply line flexible hose previously connecting the cold water line connect the Faucet male adapter. Do not over tighten.
- 13) Push tube end of faucet male adapter into top of the new supply valve to insertion line.

B: Location details for New Separate Dispensing Tap

- 1) This tap should be positioned with function, convenience, and appearance in mind. An adequate flat area is required to allow faucet base to rest securely. Most sinks have pre-drilled 1-3/8" or 1-1/2" diameter holes that may be used for this tap installation. If these holes cannot be used or are in an inconvenient location, it will be necessary to drill a new hole. A 1-1/4" hole is recommended.
 - a. Obie America has hole saws available for porcelain over cast iron and for stainless or fiberglass type sinks.
 - b. The stainless hole saw has also worked effectively for hard surface counter tops which use a carbide tip for drilling.
 - c. Do not use either of these saws for marble, granite or other surfaces without consulting the manufacturer or dealer where purchased.
 - d. Drilling may result in damage to your sink or countertop and Obie America is not responsible for any such damage. Consult a plumber, countertop manufacturer or sink manufacturer for instructions.

NOTE: You may wish to use the existing cold water sink faucet installation section in lieu of a separate dispensing tap if this become a problem.

C: Mounting the Dispensing Tap Consult the dispensing tap instructions.

NOTE: A 3/8" tube x 7/16" faucet adapter fitting is supplied with this system to make a quick connection to this faucet and outlet of filter using the union fitting connected to filter outlet 3/8" tubing. **NOTE:** Install the filter to thread shank on faucet.

D: Connecting the water supply to Filter

INLET Fitting:

- 1) Determine the length of plastic tubing (3/8" tubing 5' supplied with system) needed to connect the inlet (left side) of the filter with the supply stop valve.
 - a. Be sure to allow enough tubing to prevent kinking and cut the tubing squarely and remove all burrs. Place a mark 3/4" from end of tubing.
 - b. Wet tubing with water and insert into outlet (side fitting) of supply valve 3/4" until mark is flush with fitting.
 - c. Place a mark 3/4" from other end of tubing.
 - d. Insert tubing into fitting inlet of system to insertion mark.

OUTLET Fitting:

- 1) Insert union connector into faucet adapter fitting 3/4".
- 2) Determine the length of tubing (3/8" tubing supplied) with system to make the connection from the outlet fitting of filter to 3/8" union connection which is also connected to the faucet adapter fitting on bottom of dispensing tap. A 3' minimum length is suggested to connect accessories to this line.
 - a. Place a mark 3/4" from end of tubing.
 - b. Wet tubing with water and insert into union connector until mark (3/4") is flush with this fitting.
- 3) Double check that the water supply is directed to the filter inlet and the outlet is directed to the sink cold faucet line.

PLACING FILTER IN OPERATION

Turn on water supply valve and check for leaks.

- 1) Leave the cold water faucet at the sink turned off to allow system to come up to pressure. Recheck for leaks after 3 minutes.
- 2) Turn on filter water dispensing faucet and allow water to run until clear. Normally 2-3 minutes is adequate.

CONNECTING ADDITIONAL WATER USING APPLIANCES TO THIS FILTERING SYSTEM

You can readily connect your refrigerator ice / water dispensing system to this filter. Connect a 3/8" reducing tee in the line between the filter and faucet (see instruction example)

- 1) If your refrigerator is equipped with a built-in filter already consult your instruction manual for by-pass instructions.

There will be no need to use both and one does not want to leave in the refrigerator filter without replacing it periodically so you will want to bypass it at this time.

- 2) Multiple tees can be inserted to service other appliances and locations. Consult the appliance instructions for inlet tube size!
 - a. Built-in coffee makers
 - b. Instant Hot taps/under counter chillers
 - c. Prep sink, other sink locations that you can conveniently run a 3/8" line to service the existing sink faucet