

Installation, Operation and Maintenance Manual



Reduce Particulate, Chlorine, Taste, Odor & Scale²
For OneFlow™ Models: OF210-1, OF220-2, OF240-4¹

²OneFlow™ Scale Inhibiting technology is tested and verified by independent laboratory testing.

Introduction

Your new OneFlow FoodService Filtration System will cleanse and condition the tap water providing optimum water characteristics for their specified applications. The result is reduced equipment maintenance requirements, longer equipment life and improved quality & consistency of your products. Proper system installation and routine filter changes will ensure years of trouble-free operation and performance.

The OneFlow System is built with the finest and most advanced materials and each system is quality inspected and pressure tested prior to shipment. With proper installation and routine maintenance, you will have years of trouble-free operation.

Please refer to this manual when performing routine filter changes. The instructions make periodic maintenance quick and easy, and ensure you will receive maximum benefit from your system.

System Specifications

Maximum Pressure: 125 psi/8.6 bar

Maximum Temperature: 100°F/38°C, Min.: 35°F/2°C

Inlet/Outlet Connections: 1/2" fnpt 1.5 & 3 gpm units
3/4" fnpt 4 gpm units

Capacity: Change the DOR-OF110RC, DOR-OF120RC, DOR-OF140RC cartridge at gallon rating or at least every 6 months or when optional pressure gauge needle enters the red zone on the outlet gauge while water is flowing through the filter system under normal operating conditions. The OneFlow media cartridge does not have a grain removal capacity, however, naturally occurring organics present in the water will gradually degrade the effectiveness of this cartridge.

Change the DOR-OF110RM, DOR-OF120RM, DOR-OF140RM cartridge at least once a year.

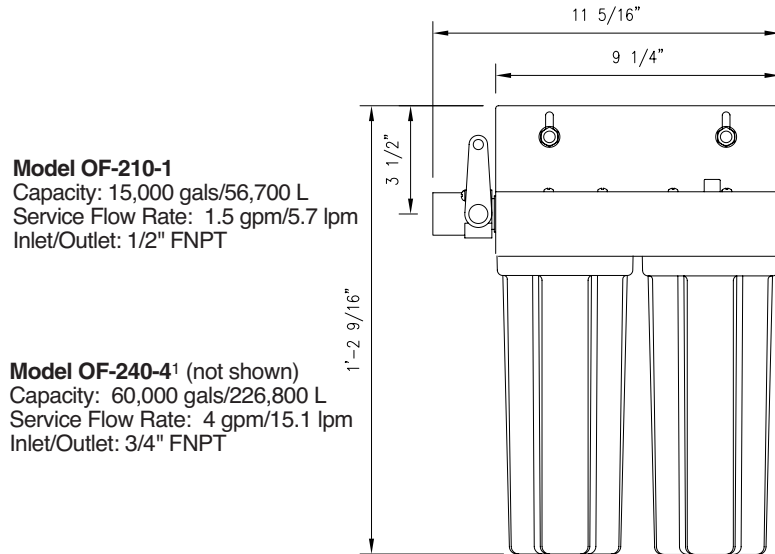


DO NOT DISCARD - GIVE THIS MANUAL TO THE OWNER AFTER INSTALLATION.
 DO NOT DISCARD THIS MANUAL AFTER INSTALLATION. THIS MANUAL CONTAINS IMPORTANT OPERATION, MAINTENANCE AND PRECAUTIONARY INFORMATION. PLEASE PRESENT THIS MANUAL TO USER/OPERATOR/OWNER AFTER INSTALLATION.
 IT IS STRONGLY ENCOURAGED THAT YOU READ THIS MANUAL BEFORE INSTALLING SYSTEM TO ENSURE THE BEST POSSIBLE INSTALLATION.
 INSTALLATION MUST CONFORM TO ALL LOCAL AND STATE PLUMBING CODES AND REGULATIONS.
 CONNECT SYSTEM TO COLD WATER SUPPLY ONLY. WATER TEMP. CAN NOT EXCEED 100°F/38°C.
 SYSTEM MUST BE INSTALLED IN A VERTICAL AND UPRIGHT POSITION.
 ONEFLOW SYSTEMS MUST NOT BE USED IN CONJUNCTION WITH POLYPHOSPHATE OR ANY OTHER SCALE INHIBITOR.
 DO NOT USE WITH WATER THAT IS MICROBIOLOGICALLY UNSAFE OR OF UNKNOWN QUALITY WITHOUT ADEQUATE DISINFECTION BEFORE OR AFTER THE SYSTEM.
 FAILURE TO CHANGE CARTRIDGES PER RECOMMENDED INTERVALS WITH ONEFLOW REPLACEMENT CARTRIDGES MAY LEAD TO SYSTEM FAILURE AND PROPERTY DAMAGE.

Installation Precautions

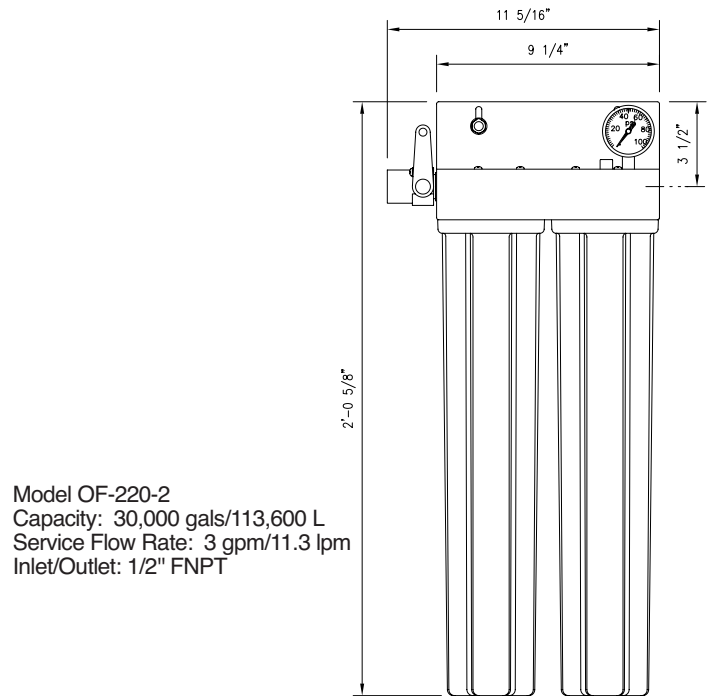
- Do **NOT** install system on line pressure above 125 psi.
- Do **NOT** install the system backwards with the feed water line connected to the outlet.
- Do **NOT** use liquid pipe compounds for fitting connections. USE a maximum two to three wraps of teflon tape.
- Do **NOT** solder plumbing connections attached to filter housing or inlet valve. Inlet valve and filter housing will be damaged by high temperature.
- Do **NOT** allow system to freeze. Turn off water supply to housing and drain housing if temperature falls below 32°F.
- Do **NOT** install system in direct sunlight or where system is exposed to harsh chemicals or may be subjected to being struck by moving equipment, carts, mops or any other item that may cause damage.
- **ALLOW** a minimum of 3" under the housing to allow for filter replacement.
- IF water hammer is evident, install water hammer arrestors before OneFlow unit.
- Do **NOT** overtighten fitting connections into inlet valve or housing outlet.
- Always back-up valves and fittings with a wrench when installing a fitting to avoid turning the valve.
- Do **NOT** install the unit behind equipment where it may be difficult to access the system for filter replacement.

Position the OneFlow unit in a suitable location. The direction of flow through the OneFlow unit is always left to right; keep this in mind when determining installation location. Do **NOT** mount the OneFlow system near any source of heat. Also, do not mount the system above any device or area that would be adversely affected by water.



Model OF-210-1
 Capacity: 15,000 gals/56,700 L
 Service Flow Rate: 1.5 gpm/5.7 lpm
 Inlet/Outlet: 1/2" FNPT

Model OF-240-41 (not shown)
 Capacity: 60,000 gals/226,800 L
 Service Flow Rate: 4 gpm/15.1 lpm
 Inlet/Outlet: 3/4" FNPT



Model OF-220-2
 Capacity: 30,000 gals/113,600 L
 Service Flow Rate: 3 gpm/11.3 lpm
 Inlet/Outlet: 1/2" FNPT

Installation Procedure

1. Turn off all equipment to be fed by the OneFlow, locate water supply cut-off valve and turn off.
2. Determine if water line has an existing water treatment system. If so, examine system for use of polyphosphate or other scale inhibitors. OneFlow will not be effective if used in conjunction with other scale inhibitors. Remove the scale inhibitors from the water line or discontinue installation.
3. Install a 1/2" full-flow ball valve on the water supply side that will feed the water system.
4. Anchor the OneFlow on a wall stud or suitable mounting material spanning wall studs. System must be vertical and upright.
5. Run a suitable line from the 1/2" full-flow ball valve at the tap water source to the inlet ball valve on the left side of the OneFlow system. Use 2-3 wraps of teflon tape and brace the inlet ball valve on the system with a wrench when connecting the feed water line.

NOTE: DO NOT OVERTIGHTEN CONNECTION FITTING INTO BALL VALVE.

6. Select the appropriate size tubing for the equipment being fed and connect it to the outlet of the OneFlow. **NOTE: DO NOT** connect the tubing to the equipment at this time. Prior to making connection to the equipment this line will be used to facilitate flushing the system. As an option, a drain valve in a tee on the outlet side

- of the OneFlow could be provided in the line to facilitate flushing when changing filters.
7. With System inlet valve closed, slowly open the full-flow ball valve at the tap water source. Check for leaks.
8. If a drain valve was not installed on the outlet side of the system, hold the tubing that will connect to equipment in a clean bucket or over sink or drain. Open the system inlet feed valve and allow water to flush through system for 2 minutes at the specified system flow rate to allow air and any carbon fines to escape. **NOTE: NO ACTIVATION IS REQUIRED FOR THE ONEFLOW SYSTEM TO PERFORM PROPERLY. FLUSHING IS RECOMMENDED TO ALLOW AIR TO ESCAPE THE SYSTEM AND REMOVE ANY CARBON FINES PRIOR TO CONNECTING TO EQUIPMENT.**
9. Make certain that the end of the tubing to be connected to the equipment is clean and sanitary.
10. Connect tubing to equipment. Open all water supply valves and check for leaks.
11. If no leaks turn on equipment and check for normal operation.

Operation

With adequate pressure, normal operation of the OneFlow System is completely automatic. Dependable operation involves only monitoring of outlet pressure, periodic filter changes and service documentation.

Pressure Gauge Monitoring

Periodically monitor the pressure gauge on the OneFlow unit. If the needle on the gauge ever enters the red zone it may be an indication that the filters have become clogged with sediment. Ideally the pressure should never drop into the red zone.

Maintenance

The only routine maintenance your OneFlow System should ever require is periodic filter cartridge changes or replacement sump O-rings. Filter changes are necessary for optimum performance of your foodservice equipment. If the system sizing recommendations have been followed the OneFlow System is designed to provide a six (6) month filter replacement interval on most tap water for the RC Cartridges and the OneFlow Cartridge should last one (1) year.

Filter Change Frequency

Several situations will mandate filter changes. Complete filter sets should be changed when any of the following apply:

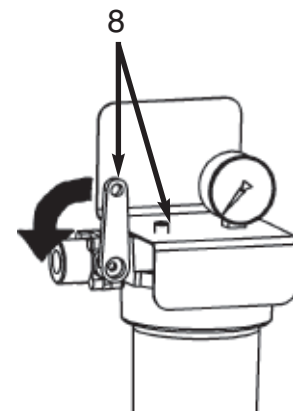
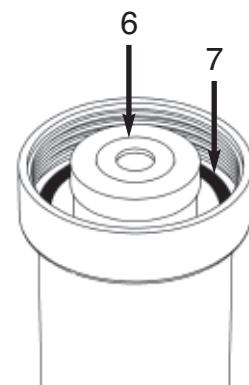
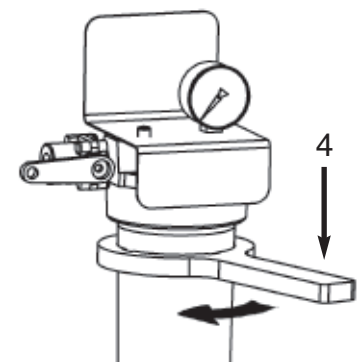
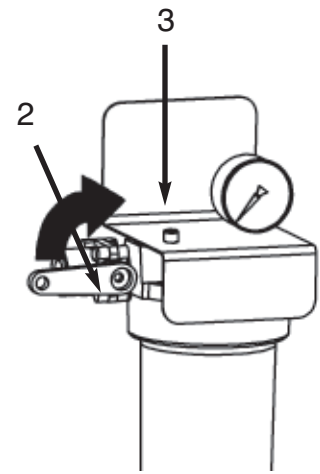
- Six (6) to twelve (12) Months have passed since unit installation or previous filter change.
- Reduced water flow.
- Pressure gauge needle enters the red zone or drops below pressure required for equipment operation.

If filter change frequency is less than 6 months due to pressure drop, it may be necessary to add additional prefiltration or evaluate system sizing recommendations.

Filter Cartridge Replacement Procedure

IMPORTANT: Determine whether all equipment connected to the OneFlow System must be turned off prior to shutting off water supply from filters.

- 1.If required, turn off equipment.
- 2.Turn OFF water to OneFlow System by closing Inlet Ball Valve.
- 3.Press the red button to release pressure.
- 4.Remove housing(s) - use filter wrench if necessary.
- 5.Clean inside of housing sumps with warm water. If desired, disinfect housings using a teaspoon of household bleach in a filter bowl of water. Let stand 5 minutes, and then discard.
- 6.Insert new cartridges into filter housings. Match cartridge model numbers to model numbers on bracket.
- 7.Make certain the O-ring is properly positioned and reinstall filter housings (hand tighten only). Check O-ring for damage and replace if damaged or distorted.
- 8.Slightly open the inlet ball valve; push the red pressure relief button to release trapped air until a small amount of water comes out - release the red button and fully open the ball valve.
- 9.Open the flush valve downline from the filter housing (if equipped) and flush the new cartridges to drain or bucket for two (2) minutes or until water runs clear. If no flush valve is present, disconnect line from equipment to flush to drain.
- 10.VERY IMPORTANT: With water supply inlet valve OPEN and water flow confirmed, turn on connected equipment. Failure to supply water to equipment may cause serious damage.
- 11.Record filter change on the service log.



Replacement Filter Cartridges

OneFlow Filter Systems are designed, tested, and certified with OneFlow filter cartridges with proven performance, size and operating capacities. Use of replacement cartridges other than those specified will void warranties, certifications and may compromise equipment protection, water quality and cartridge life.

Replacement Parts for models:

OF210-1, OF 220-2, OF240-4¹

Part #	Description
DOR-OF1000-RP	Sump for OF210-1
DOR-OF2000-RP	Sump for OF220-2
DOR-OF4000-RP	Sump for OF240-4 ¹
DOR-OF1021-RP	O-Ring for OF210-1, OF220-2
DOR-OF4001-RP	O-Ring for OF240-4 ¹
DOR-OF1022-RP	Valve, Inlet Ball for OF210-1, OF220-2
DOR-OF4002-RP	Valve, Inlet Ball for OF240-4 ¹
DOR-OF1023-RP	Wrench for OF210-1, OF220-2
DOR-OF4003-RP	Wrench for OF240-4 ¹
DOR-OF9999-RP	Pressure Relief Button
DOR-OF9998	Gauge, Pressure 0-160psi

Replacement Cartridges

Model	Cartridge	Qty
OF210-1	DOR-OF110RM	1
	DOR-OF110RC	1
OF220-2	DOR-OF120RM	1
	DOR-OF120RC	1
OF240-4 ¹	DOR-OF140RM	1
	DOR-OF140RC.	1



Models OF-210-1 and OF-220-2, are Tested and Certified by NSF International against NSF/ANSI Standard 42 for the reduction of:
 Standard 42: Aesthetic Effects
 Chlorine
 Taste and Odor
 Particulate Reduction: Class 1

OneFlow Cartridges, DOR-OF110RM, DOR-OF120RM and DOR-OF140RM are tested and certified by NSF International against NSF/ANSI Standard 42 for material requirements only.

NOTE: Testing was performed under standard laboratory conditions, actual performance may vary. It is recommended that you have your water supply tested to determine your actual water conditions.

For further information regarding OneFlow Certified systems visit the NSF website at www.NSF.org

1- OF240-4 is independently tested to meet the indicated performance specifications.
 The DOR-OF140RM replacement cartridge is Tested and Certified by NSF International against NSF/ANSI Standard 42 for material requirements only



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 Plano, TX 75074

Limited Warranty

- The OneFlow® tank system is warranted to be free of defects in materials and workmanship for 5 years from the date of original shipment.
- The OneFlow® media is warranted for performance for a period of 2 years from the date of the original installation when installed and operated in accordance with the instructions in the corresponding Installation and Operation Manual.

Watts Regulator Company warrants its OneFlow® cartridge systems as follows:

- The OneFlow® cartridge system is warranted to be free of defects in materials and workmanship for 1 year from the date of original shipment.
- OneFlow® cartridges are warranted for performance for a period of one year from the date of original installation when installed and operated in accordance with the instructions in the corresponding Installation and Operation Manual.
- Carbon replacement filter cartridges are not warranted to perform for any period of time because the service life of replacement carbon filter cartridges varies significantly with local water conditions and volume.

Conditions

1. The OneFlow® system must be installed in applications with municipally supplied water adhering to EPA guidelines.
2. Any component failure must not result from abuse, fire, freezing or other acts of nature, violence, or improper installation.
3. Equipment must be installed and operated in compliance with the local plumbing codes and on an approved water supply.
4. Equipment is limited to use at water pressures and temperatures that do not exceed our published specifications.
5. Water supply must not exceed 2.0 PPM chlorine. For water supply exceeding 2.0 PPM chlorine, pretreatment is required. (Please contact your water treatment specialist.)
6. Information, including model number, serial number, and date of installation, must be provided for any claims pertaining to equipment in warranty.
7. Defective parts are subject to inspection by either Watts Regulator Company or any authorized representative before final commitment of warranty adjustment is made.
8. Watts Regulator Company reserves the right to make changes or substitutions in parts or equipment with material of equal quality or value and of then current production.
9. This warranty shall not apply to any OneFlow® system installed or used for residential applications. For purposes of this warranty, a residential application is an application for a building with 4 or fewer dwelling units.

Limitations

Our obligation under this warranty with respect to the tank or valve is limited to furnishing a replacement for, or at our option, repairing any part or parts to our satisfaction that prove defective within the warranty period stated above. Such replacement parts will be delivered to the owner F.O.B. nearest factory, at no cost, excluding freight and local labor charges, if any.

Our obligation under this warranty with respect to the OneFlow® media will be limited to furnishing a replacement for the media within two years from date of original installation. Such replacement media will be delivered to the owner F.O.B. nearest factory, at no cost, excluding freight and local labor charges, if any. Damage to the media due to chlorine, other oxidizers or fouling caused by local water conditions or any other operation outside of the limits shown under Specifications, is not covered by this warranty.

THE WARRANTY SET FORTH HEREIN IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY WATTS REGULATOR COMPANY WITH RESPECT TO THE PRODUCT. WATTS REGULATOR COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. WATTS REGULATOR COMPANY HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The remedy described under this warranty shall constitute the sole and exclusive remedy for breach of warranty, and Watts Regulator Company shall not be responsible for any incidental, special or consequential damages, including without limitation, freight, handling, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which Watts Regulator Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product.

Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This warranty gives you specific legal rights, and you may have other rights that vary from state to state. You should consult applicable state laws to determine your rights. SO FAR AS IS CONSISTENT WITH APPLICABLE STATE LAW, ANY IMPLIED WARRANTIES THAT MAY NOT BE DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE APPLICABLE WARRANTY PERIODS STATED ABOVE.

CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: www.watts.com/prop65

Dormont Products for Commercial Kitchens



Dormont Safety System™

The Dormont Manufacturing name is well known in commercial kitchens, where our Safety System™ and Power Force brands can be found in millions of restaurants, schools, hospitals and hotels. Dormont offers a complete line of commercial gas connectors, faucets, and grease interceptors certified to ensure safety and quality. Dormont commercial products are available from your local authorized Dormont Representative or call 1-800-DORMONT for more information.



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Commercial grease interceptors for installation on cooking/prep sinks, pot, pan and scullery sinks and dishwasher applications.

