



PENTEK®

Pentair Water

Inline Water Filter Instruction Manual

Models GS-6, GS-10, GS-210, GS-215, GS-6RO, GS-10RO, GS-210RO, GS-215RO, GS-6ALS, GS-10ALS, GS-215CB5-S, GS-215CB5

Specifications

Temperature Range: 40–100°F (4.4–37.8°C)

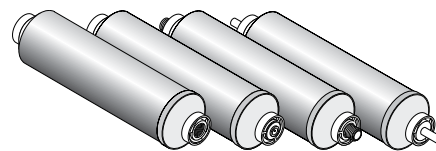
Pressure Range: 20–125 psi (1.4–8.62 bar)

Capacity/Flow Rate:

GS-6	500 gallons (1893 L) @ 0.5 gpm (1.9 Lpm)
GS-10	750 gallons (2839 L) @ 1 gpm (3.8 Lpm)
GS-210	1,000 gallons (3785 L) @ 1 gpm (3.8 Lpm)
GS-215	1,250 gallons (4732 L) @ 1 gpm (3.8 Lpm)
GS-6RO	1,650 gallons (6246 L) @ 0.5 gpm (1.9 Lpm)
GS-10RO	3,308 gallons (12522 L) @ 0.5 gpm (1.9 Lpm)
GS-210RO	6,000 gallons (22712 L) @ 1 gpm (3.8 Lpm)
GS-215RO	8,950 gallons (33879 L) @ 1 gpm (3.8 Lpm)
GS-6ALS	585 gallons (2214 L) @ 0.5 gpm (1.9 Lpm)
GS-10ALS	1,400 gallons (5110 L) @ 1 gpm (3.8 Lpm)
GS-215CB5	3,500 gallons (31249 L) @ 1 gpm (3.8 Lpm)
GS-215CB5-S	3,500 gallons (31249 L) @ 1 gpm (3.8 Lpm)

Dimensions:

GS-6	2" x 6" (50.8 mm x 152.4 mm)
GS-10	2" x 10" (50.8 mm x 254 mm)
GS-210	2.5" x 11" (63.5 mm x 279.4 mm)
GS-215	2.5" x 14" (63.5 mm x 355.6 mm)
GS-6RO	2" x 6" (50.8 mm x 152.4 mm)
GS-10RO	2" x 10" (50.8 mm x 254 mm)
GS-210RO	2.5" x 11" (63.5 mm x 279.4 mm)
GS-215RO	2.5" x 14" (63.5 mm x 355.6 mm)
GS-6ALS	2" x 6" (50.8 mm x 152.4 mm)
GS-10ALS	2" x 10" (50.8 mm x 259 mm)
GS-215CB5	2.5" x 14" (63.5 mm x 355.6 mm)
GS-215CB5-S	2.5" x 14" (63.5 mm x 355.6 mm)



Precautions

⚠ WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

CAUTION: Filter must be protected against freezing, which can cause cracking of the filter and water leakage.

CAUTION: Install this cartridge on cold water lines only. Do not use on water lines exceeding 100° F (37.2° C). Minimum water pressure of 20 psi (1.4 bar) and maximum water pressure of 125 psi (8.62 bar) is required.

CAUTION: When installing behind a refrigerator or appliance use ample amount of tubing to allow removal of refrigerator or appliance and to prevent damage to tubing, filter or fittings. Damage to tubing, filter or fittings could cause leakage and damage.

NOTE: Activated carbon cartridges will contain a small amount of carbon fines (very fine black powder). A new cartridge, after installation, should be flushed with water for 5 minutes, wait an hour then flush another 5 minutes to remove the fines before using the water.

NOTE: Even after the filter has been flushed to remove the fines, it is possible that some settling of the carbon can occur and the first trays of ice cubes or water may be discolored. Discard the ice cubes or flush out with more water, if this is the case.

NOTE: Substances reduced are not necessarily in your water. Filter must be maintained according to manufacturer's instructions, including replacement of filter cartridges.

NOTE: Keep this unit clean with soap and water. Do not use spray cleaners or insecticides near the unit.

NOTE: Do not install filter close to a heat source.

NOTE: Comply with all state and local laws and regulations

Installation Recommendations

1. Inline filters are most effective when water flows down through the filter. Install with the inlet port at the top and the outlet port at the bottom.
2. Install in a location convenient for filter replacement.
3. In-line filter life depends upon the water volume used and the substances present in the water source. Manufacturer recommends changing the filter every 6 to 12 months or when its capacity expires, whichever comes first.

⚠ WARNING: Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

NOTE: Substances reduced are not necessarily in your water. Filter must be maintained according to manufacturer's instructions, including replacement of filter cartridges.



GS-6, GS-10, GS-210, GS-215, GS-6RO, GS-10RO, GS-210RO, GS-215RO, GS-6ALS, GS-10ALS, GS215-CB5, and GS215CB5-S, are Tested and Certified by NSF International against NSF/ANSI Standard 42. See Performance Data Sheet in manual for specific claims.

Technical Support: 800.279.9404 (M-F 8:00 a.m. - 5:00 p.m. CST)

146732 Rev C JL10

Installation Instructions

1. Turn the water off.
2. Disconnect the existing filter or cut the cold water tubing where the filter will be installed.
NOTE: Cut the tubing square and cleanly. Tubing that is not cut square may leak. Remove all score marks and burrs from the tubing. Use a tube insert with soft, thin-walled plastic tubing. Install only on a cold water line.
3. Verify water flow matches the direction of the arrow on the filter.
4. Connect the inlet lines. See Figures 1 through 3 below.
5. Flush the filter by holding it, outlet end down, over a bucket or pan. Turn the water on for five minutes, turn it off, wait an hour and flush for another five minutes. Repeat this process until the water runs clear. This will help to remove any fine particles of activated carbon from the filter body.
6. Connect the outlet water line to the appliance inlet.
7. Carefully turn on the water and check for leaks.
8. Recheck for leaks at intervals for several hours following installation.

Performance Data

Important Notice: Read this performance data and compare the capabilities of this system with your actual water treatment needs. It is recommended that, before installing a water treatment system, you have your water supply tested to determine your actual water treatment needs.

This system has been tested according to NSF/ANSI 42 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.

Test Conditions

Flow Rate	= as noted for filter system
Inlet Pressure	= 60 psi (4.1 bar)
pH	= 7.5±1
Temperature	= 68°F ± 5°F (20°C ± 2.5°C)

Operating Requirements

Pressure	= 20-125 psi (1.4-8.62 bar)
Temperature	= 40-100°F (4.4-37.8°C)
Turbidity	= 5 NTU Max.

Replacement Cartridges

Contact your local PENTEK dealer for replacement cartridges.

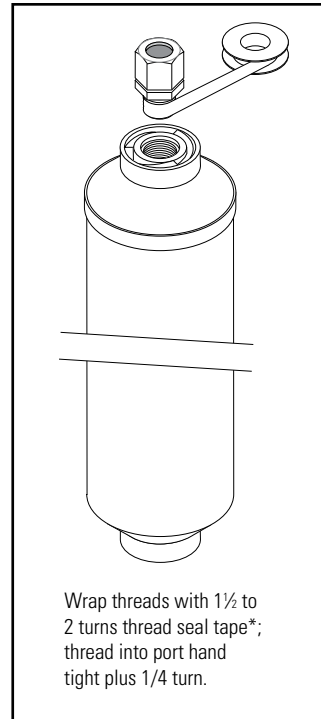


Figure 1 JACO Fittings: Wrap fitting with Teflon® Tape and tighten.

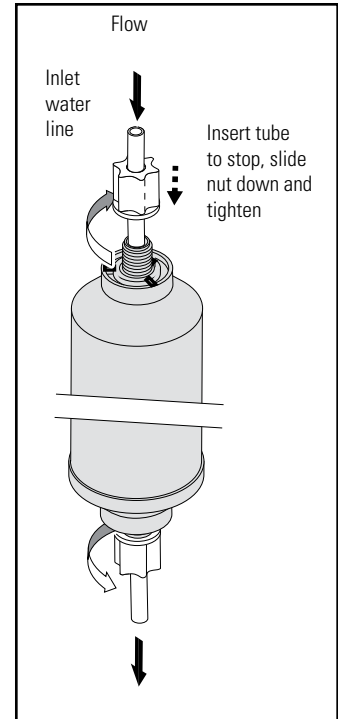


Figure 2 JACO Fittings: Insert tube into tube stop; slide nut down and tighten

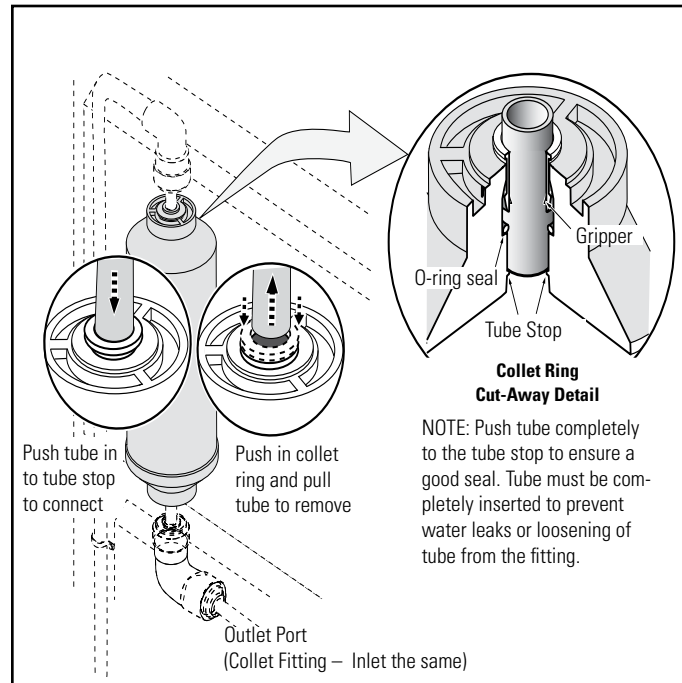


Figure 3 Collet Style Fittings:

- A. Insert tube into assembly completely to the tube stop.
- B. Pull back on tubing to assure collet grips tubing in place.
- C. To remove - turn off water, push tube in, hold the collet ring down and remove tube.

Performance Data continued

Model GS-6

Substance	Influent Challenge Concentration	Maximum Permissible Product Water Concentration	Reduction Requirements	Minimum Reduction	Average Reduction
Standard 42 Aesthetic Effects					
Chlorine	2.0 mg/L \pm 10%		\geq 50%		67.6%

Flow rate = 0.5 gpm (1.9 Lpm); Capacity = 500 gallons (1893 L)

Models GS-210RO, GS-215RO

Substance	Influent Challenge Concentration	Maximum Permissible Product Water Concentration	Reduction Requirements	Minimum Reduction	Average Reduction
Standard 42 Aesthetic Effects					
Chlorine	2.0 mg/L \pm 10%		\geq 50%		66.5%

Flow rate = 1 gpm (3.8 Lpm); Capacity = GS-210RO: 6,000 gallons (22712 L);
GS-215RO: 8950 gallons (33879 L)

Models GS-10, GS-210, GS-215

Substance	Influent Challenge Concentration	Maximum Permissible Product Water Concentration	Reduction Requirements	Minimum Reduction	Average Reduction
Standard 42 Aesthetic Effects					
Chlorine	2.0 mg/L \pm 10%		\geq 50%		75.0%

Flow rate = 1 gpm (3.84 Lpm); Capacity = GS-10: 750 gallons (2839 L); GS-210: 1,000 gallons (3785 L);
GS-215: 1,250 gallons (4732 L)

Model GS-6ALS

Substance	Influent Challenge Concentration	Maximum Permissible Product Water Concentration	Reduction Requirements	Minimum Reduction	Average Reduction
Standard 42 Aesthetic Effects					
Chlorine	2.0 mg/L \pm 10%		\geq 50%		61.0%

Flow rate = 0.5 gpm (1.9 Lpm); Capacity = 585 gallons (2214 L)

Model GS-6RO

Substance	Influent Challenge Concentration	Maximum Permissible Product Water Concentration	Reduction Requirements	Minimum Reduction	Average Reduction
Standard 42 Aesthetic Effects					
Chlorine	2.0 mg/L \pm 10%		\geq 50%		67.6%

Flow rate = 0.5 gpm (1.9 Lpm); Capacity = 1,650 gallons (6246 L)

Model GS-10ALS

Substance	Influent Challenge Concentration	Maximum Permissible Product Water Concentration	Reduction Requirements	Minimum Reduction	Average Reduction
Standard 42 Aesthetic Effects					
Chlorine	2.0 mg/L \pm 10%		\geq 50%	50%	70.5%

Flow rate = 1 gpm (3.8 Lpm); Capacity = 1,350 gallons (5300 L)
Testing was performed under standard laboratory conditions, actual performance may vary.

Model GS-10RO

Substance	Influent Challenge Concentration	Maximum Permissible Product Water Concentration	Reduction Requirements	Minimum Reduction	Average Reduction
Standard 42 Aesthetic Effects					
Chlorine	2.0 mg/L \pm 10%		\geq 50%		67.6%

Flow rate = 0.5 gpm (1.9 Lpm); Capacity = 3,308 gallons (14736 L)

Models GS-215CB5 and GS-215CB5-S

Substance	Influent Challenge Concentration	Maximum Permissible Product Water Concentration	Reduction Requirements	Minimum Reduction	Average Reduction
Standard 42 Aesthetic Effects					
Chlorine	2.0 mg/L \pm 10%		\geq 50%		96.0%

Flow rate = 1 gpm (3.8 Lpm); Capacity = 3,500 gallons (13249 L)

PENTEK FILTRATION LIMITED WARRANTY

Inline Water Filter

PENTEK Filtration/Pentair Filtration, Inc. warrants to the original owner (under normal use): Inline water filter to be free from defects in material and/or workmanship one (1) year from the date of purchase. Any replacement products furnished will be free from defects in material and/or workmanship for the remainder of the original warranty period. This warranty does not cover: (1) filtration performance or life of the filtration media (2) fittings and optional materials (3) defects not reported within the above time period, (4) items manufactured by other companies, (5) problems arising from failure to comply with Pentair Filtrations Inc.'s instructions, (6) problems and/or damage arising from acts of nature, abuse, misuse, negligence or accident by any party other than Pentair Filtration Inc., (7) problems and/or damage resulting in whole or in part from alteration, modification, repair or attempted alteration, modification or repair by any party other than Pentair Filtration Inc., (8) noncompliance with applicable codes/ordinances.

If a defect in workmanship and/or material in a product or part covered by the warranty should arise, Pentair Filtration, Inc., at its sole discretion, will repair or replace the defective product or part (Pentair Filtration, Inc. may consider, in good faith, the customer's preference).

All claimed defective product must: (1) be authorized for return by Pentair Filtration Inc. with an RGA number (2) include proof of the purchase date of the product or part (3) returned to Pentair Filtration, Inc. prior to the expiration of the warranty date, at the customer's expense, shipment pre-paid, (4) be accompanied by a letter detailing the Model Number, Serial Number (if any), and a brief description of the problem.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, PENTAIR FILTRATION, INC. DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH REGARD TO THE PRODUCTS, PARTS AND ANY ACCOMPANYING WRITTEN MATERIALS.

To the maximum extent permitted by applicable law, Pentair Filtration, Inc. shall not be liable for any damages whatsoever (including, but not limited to, loss of time, inconvenience, expenses, labor or material charges incurred in connection with the removal or replacement of the Inline Water Filter, special, incidental, consequential, or indirect damages for personal injury, loss of business profits, business interruption, loss of business information, or any other pecuniary loss) arising out of the use of or inability to use the defective products or parts, even if Pentair Filtration, Inc. has been advised of the possibility of such damages.

Pentair Filtration, Inc. maximum liability under any provision of this Limited Warranty shall be limited to the amount actually paid for the Inline Water Filter.

NOTE: Because some states do not allow the exclusion or limitation of incidental or consequential damages, the above limitations or exclusions may not apply.

THIS WARRANTY GRANTS SPECIFIC LEGAL RIGHTS, AND OTHER RIGHTS MAY APPLY. SUCH RIGHTS VARY FROM STATE TO STATE.

12/04



5730 North Glen Park Road • Milwaukee, WI 53209
Technical Support: 800.279.9404
supportspecialist@pentekfiltration.com
www.PentairAquaPro.com