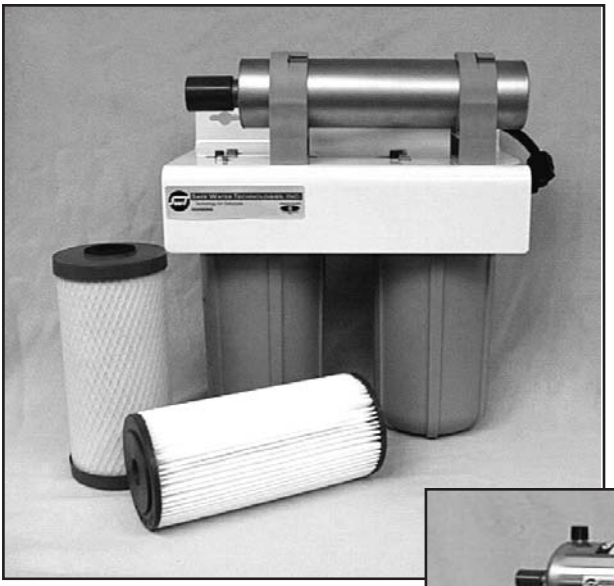
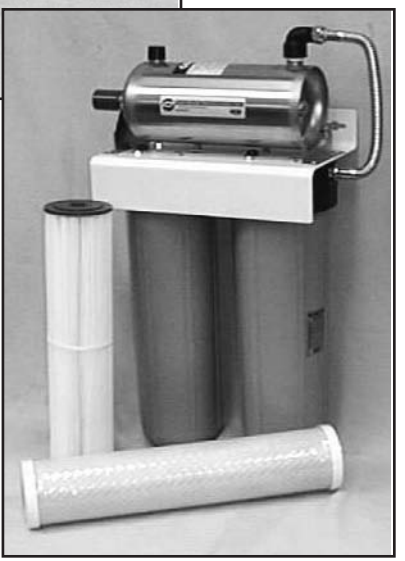
INSTALLATION AND OPERATION INSTRUCTIONS FOR

SERIES 200 HIGH FLOW WATER FILTRATION & PURIFICATION SYSTEM





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A. General Information

The Series 200 High Flow Water Filtration and Purification System is designed to remove bad taste and odor from water. This system will also destroy micro-organisms in the water supply. The unit includes a high volume 5-micron sediment filter. an activated carbon block cartridge which removes chemical contaminates (chlorine, pesticides, etc.), bad taste and odor by absorption, and an ultraviolet chamber that destroys or inactivates the DNA of micro-organisms to deem them harmless.

B. Specifications

Property	Maximum	Minimum
Water Pressure	125 psi (8.5 bar)	25 psi (1.7 bar)
Water Temperature	100ºF (38ºC)	35ºF (1.7ºC)
pH	10	5.0
Turbidity	10 NTU	0 NTU
Lamp Life	9,000 hours	N/A
Ultraviolet Dosage	N/A	30,000 μw sec/cm^2
Flow Rate (H225HF-3UV)	3 gpm	N/A
Flow Rate (H225HF20-6UV)	6 gpm	N/A

WARNING: This filter must be protected from freezing. Failure to do so may result in cracking of the filter and water leakage.

Make certain that the installation complies with all state and local laws and regulations.

C. Components Description

Description	Part No.	Qty.
For H225HF-3UV (3 gpm)		
Cartridge, Pleated Polyester, 5 micron	CF83205	1
Cartridge, Carbon Block, 5 micron	CB87005	1
Ultraviolet Lamp	DI-LMP42002	1
Housing Wrench	MA-150296	1
For H225HF20-6UV (6 gpm)		
Cartridge, Pleated Polyester, 5 micron	CF84205	1
Cartridge, Carbon Block, 5 micron	CB97005	1
Ultraviolet Lamp	DI-LMP41004	1
Housing Wrench	MA-144368	1

D. Installation Instructions

D.1 Installation

1.1 Securely mount the system to the installation site.

1.2 Attach the inlet water supply to the FNPT connection on the left filter housing.

1.3 Attach the outlet water connection to the MNPT nipple on the right side of the stainless steel ultraviolet chamber.

Note: It is suggested that a 3-valve bypass loop be installed around the system for ease of servicing.

D.2 Install the ultraviolet lamp and quartz sleeve

2.1 Slide the quartz sleeve into the end nipple on the ultraviolet chamber until approximately 1/4 inch is protruding.

2.2 Slide a lubricated o-ring onto the quartz sleeve until it "bottoms out" on the nipple.

2.3 Screw the gland nut onto the nipple. *Hand tighten only!*

2.4 Connect the lamp power cord to the ultraviolet lamp and make sure that the rubber boot is fully extended around the lamp and not folded under.

2.5 Slide the lamp completely into the quartz sleeve.

E. Servicing and Maintenance

IMPORTANT: Before servicing the system, be sure to shut off the water to the system and relieve the pressure. Also, unplug the power to the ultraviolet lamp.

WARNING: Never look directly at ultraviolet light. It can cause severe eye damage. Always wear ultraviolet blocking eye protection. Prolonged exposure due to direct ultraviolet light may cause skin cancer.

E.1 When to change the cartridges and ultraviolet lamp

The cartridges should be replaced every 6 to 12 months. They may have to be replaced sooner if they prematurely clog due to a high amount of sediment in the water supply, or a foul taste or odor returns to the filtered water.

The ultraviolet lamp should be replaced every 12 months.

E.2 How to change the cartridge

To replace the filter cartridge, unscrew the housing from the cap and discard the used cartridge. Insert the new cartridge into the housing. Make sure that the o-ring is in the proper place. The o-ring should be lubricated and seated in the groove of the housing. Screw the housing back into the cap and **hand tighten only.**

To replace the ultraviolet lamp, slide the lamp out of the quartz sleeve.

Should the quartz sleeve require cleaning, removal is accomplished by reversing the installation procedure. Clean the quartz sleeve with clean water and a soft cloth only. This cleaning should be done on a scheduled basis, as determined by the frequency of deposits appearing on the wetted parts.

E.3 Winterizing for seasonal homes

Never allow the system to freeze with water in it. This can result in cracked lamps and glass (quartz) sleeves. It will also result in cracked cartridge housings.

For proper winterizing, water to the unit should be shut off, the cartridges removed from the system, and all water emptied from the system. Cartridges should be discarded and new cartridges installed at the start of the next season.

Carbon cartridges should not be re-used once they have been dried out. Additionally, carbon cartridges should not be used if left in stagnant water for a considerable length of time.

UV Quartz Sleeve Cleaning and Maintenance

UV lamps produce heat and UVC output, which may cause certain water characteristics to adhere to and bond on the quartz sleeve. This can cause the quartz sleeve to foul. A fouled quartz sleeve will prevent the UVC from reaching the targeted pathogens.

Denatured alcohol, mild citric acid, or a lime/calcium/rust removal product (LimeAway or CLR) and a ScotchBrite pad (non-scratching) can be used to aid in the cleaning of the quartz sleeve. After the quartz sleeve is rinsed off with water and dry, wipe with a lint free cloth with denatured alcohol as a final step.

The quartz sleeve should be cleaned annually or more frequently, depending on the operating conditions.

Use gloves when handling a clean or new lamp and quartz sleeve. Skin oils will adhere to the lamp and quartz sleeve and prevent UV light from properly emanating.

A quartz sleeve should be changed every three (3) to five (5) years, or sooner if they show wear.