

### Water Treatment System Start-Up Guidance after an Extended Shutdown

Filtration systems are designed to be operated on a continuous basis with only relatively short periods of down time (overnight and holidays). When a system is shut down for an extended period of time, there is a potential for microbiologic growth. To address concerns with system operation after the shutdown, follow the below instructions. This is applicable to all Pentair filtration systems (i.e. pre-filters, carbon-based cartridges and RO systems).

#### Periodic Flushing

In cases where the customer knows that the system will be down for an extended time and is able to get to the system on a periodic basis, follow the below flushing procedure every 3-4 days as table below.

Products	Periodic Flushing	Shutdown / Stagnation		
	Every 3-4 days	Less than or equal to 7 days	Greater Than 7 Days	More than 4 weeks
Claris S / Ultra 170 / Ultra 250	Flush 2 liters	Flush 2 liters	Flush 10 liters	Filter cartridge needs to be changed and the system must be sanitised
Claris S / Ultra 170 / Ultra 250	Flush 3 liters	Flush 3 liters	Flush 15 liters	
Claris L / Ultra 1000	Flush 5 liters	Flush 5 liters	Flush 25 liters	
Claris XL / Ultra 1500	Flush 8 liters	Flush 8 liters	Flush 40 liters	
Claris XXL / Ultra 2000 / Claris Prime	Flush 12 liters	Flush 12 liters	Flush 60 liters	
<b>Cartridges systems (Cartridges and in-line cartridges)</b>	Flush the system for a minimum of 5 minutes by letting the outlet water run to the drain. For systems with multiple outlet ports, flush for a minimum of 5 minutes through all ports	When the system is set back into operation, flush it for a minimum of 5 minutes by letting the outlet water run to the drain. Then proceed with normal operations. For systems with multiple outlet ports, flush for a minimum of 5 minutes through all ports	Remove all existing filtration elements present in the system (pre-filters, carbon filters &/or RO cartridges) and dispose	
<b>RO systems</b>	Empty the tank through the outlet port until the pump turns on. Once the pump is on, flush the system for 10 minutes by letting the outlet water run to the drain. For systems with multiple outlet ports, flush through all ports	When the system is set back into operation, empty the tank through the outlet port until the pump turns on. Once the pump is on, flush the system for 10 minutes by letting the outlet water run to the drain and then proceed with normal operations. For systems with multiple outlet ports, flush for a minimum of 10 minutes through all ports. For RO systems with extra tank flush completely the tank 3 times	Disinfect the system as instructed in the applicable Installation and Operations Guide for that specific system  After the disinfection process is complete, replace the filtration elements with all new pre-filters, carbon filters and/or RO cartridges.  Flush the system as instructed in the applicable IO Guide to complete the procedure.	
<b>Softener</b>	None	None	Initiate a manual regeneration	Disinfect per the Installation and Operation Guide for that specific unit
<b>Wellmate</b>	None	Flush completely 3 times	Sanitise according to system's manual	

#### ASSUMPTIONS

- Incoming water is potable
- There is no boil-water advisory or boil-water order issued by the applicable public health or governmental authority
- System is being maintained within normal operating temperature and other conditions as set forth in the applicable specification sheet

If you have concerns or cannot confirm these assumptions for the system, follow the instructions above as per what in "more than 4 weeks"

For replacement filters, cartridges and sanitiser fluid contact Aqua Cure on: 01704 516 916 or visit us online

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