

Department	HydroLogic		Doc #	SOP – Manual Regen (sm)	
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## Standard Operating Procedure (SOP); Perform Manual Regeneration

### 1. Purpose

The purpose of this SOP is to aid users in the steps necessary to perform a 'Manual Regeneration/Backwash' on the HyperLogic media tanks featuring electronic regenerating heads (CV1 Control Valves); tank diameter 16" and smaller.

### 2. Applicable To

This SOP is applicable to all HyperLogic media tanks featuring electronic regenerating heads (CV1 Control Valves); tank diameter 16" and smaller.

### 3. Prerequisites

Ensure you follow all state & federal guidelines for personal workplace safety prior to disassembly and/or maintenance of your HyperLogic equipment and related consumables.

### 4. Materials/Reference

Suggested tools/materials required for this operation include, but may not be limited to, the following:

- Ref. Manual for Operation & Maintenance of <associated> Filter
- Media Tank /w CV1 Control Valve Head

### 5. Procedure

The time of regeneration and days between regeneration come pre-programmed on your HyperLogic media tank however the user may find it necessary to perform a manual regeneration process outside of the normal scheduled process. The general steps needed to perform a 'Manual Regeneration/Backwash' on your HyperLogic media tank featuring an electronic regenerating head are as follows:

- Place the RO in 'Standby' before entering a media tank into a 'Manual; Regeneration' process.
- Ensure that the media tank has adequate pressure and flows to properly perform a manual regeneration process. This process requires a minimum sustained pressure of 25psi and no greater than 80psi. Reference 'Figure 1' for regeneration flow rate requirements by size.
- Verify that the drain line is open & unobstructed.
- To start the manual regeneration process, press and hold the UP and DOWN arrows simultaneously for 3 seconds on the media tank head. Once initiated, you should hear the motor engage and water flowing. Refer to 'Figure 2'.
  - This process will take several minutes to complete. Water should be seen exiting the waste/concentrate line to drain.
  - Only engage one (1) media tank at a time into a manual regeneration/backwash process to ensure that all available water flow/pressure is being utilized for a proper and thorough procedure.
- Once completed, the media tank head display should return to the 'Time of Day' menu.
- Re-engage the RO in 'Run' mode, if necessary, upon completion of a 'Manual [media tank] Regeneration'.



Size	Carbon	Greensand	MultiMedia	Softener
	Minimum Flow Required - GPM			
744	2.2	2.7	4.2	1.3
844	2.7	3.2	5.3	1.7
940	3.2	4.2	6.5	2.2
1054	4.2	5.3	7.5	2.7
1252	6.5	7.5	11	4.2
1354	7.5	9	15	5.3
1465	7.5	10	15	5.3
1665	15	15	20	6.5

Figure 1

Arrow will point to Regen if a regeneration is expected "Tonight".



Figure 2

END OF SOP DOCUMENT

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