

Department	HydroLogic		Doc#	SOP - AntiScalar	nt Injection
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Standard Operating Procedure (SOP); AntiScalant Injection Rebatch & Rate

1. Purpose

The purpose of this SOP is to aid users in the rebatching and injection rate of the HyperLogic AntiScalant concentrate; Hawthorne HGC741678.

2. Applicable To

This SOP is applicable to all HyperLogic Commercial Series RO systems [1-12 membranes] which feature the use of an AntiScalant Injector system by 'Stenner'; Classic Series (HGC741675).

3. Prerequisites

Ensure you follow all state & federal guidelines for personal workplace safety prior to disassembly and/or maintenance of your HyperLogic equipment & related consumables. AntiScalant injector tank should be cleaned and antiscalant rebatched monthly for optimal performance & aide in prevention of RO Membrane scaling.

4. Materials/Reference

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

- PPE Personal Protective Equipment
- AntiScalant Concentrate (HGC741678)
- Reference: AS-102 SDS Sheet
- Measuring Container
- HyperLogic Maintenance Log sheet

- RO Quality Water (purified)
- Small Scrub Brush
- Clean, warm water
- Bucket
- Ref. HyperLogic 'Owner's Manual'

5. <u>Procedure</u>

The general steps for rebatching and adjustment of the HyperLogic AntiScalant Injector are as follows:

- a. Place RO in 'Standby' or disconnect from power. Turn off power switch located on top of the Stenner Motor.
- b. Remove the tank cap. Empty remaining diluted antiscalant from tank.
 - i. Note: Some users pump, siphon or pour remaining fluid into an approved container for proper disposal in accordance with the AS-102 SDS Sheet.
- c. Gently clean the inside of the injector tank with a fine scrub brush and warm water. Thoroughly rinse upon completion & dispose of the remaining diluted antiscalant. *Use caution when cleaning on or around the electronic float switch (if equipped) as they are fragile.*
- d. Mix 9-parts RO water with 1-part antiscalant concentrate & add to the Stenner injector tank. Replace the tank cap once filled with mixture.
- e. Turn on the power switch located on top of the Stenner Motor.
- f. Verify proper injection pump rate & adjust your 'injection rate dial ring' accordingly; Refer to 'Figure 1' This rate may vary from system to system based on source water hardness. The chart below should be used as a reference starting point. Refer to 'Figure 2'.
- g. Record antiscalant rebatch date on 'HyperLogic Maintenance Log' sheet.

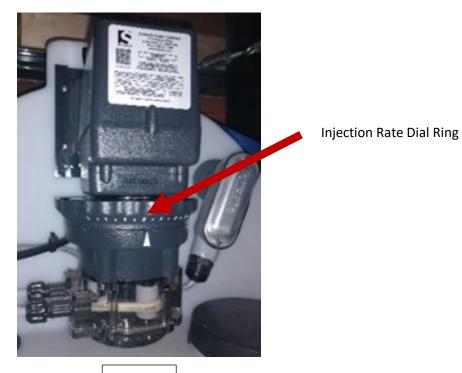


Figure 1

Hyper RO GPD	Stenner Classic Settings		
2,000	L		
4,000	1.0		
5,500	1.25		
7,000-9,000	1.75		
10,000	2.0		
11,500	2.25		
13,000 & 14,400	2.5		
16,000 - 19,000	3.0		

Figure 2

END OF SOP DOCUMENT

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