

3M™ Water Filtration Products

SPEC# _____

QUANTITY _____

application: **SCALE INHIBITION**

model:
SF18-S



3M™ Water Filtration Products Model SF18-S inhibits scale build-up and corrosion in high-temperature foodservice equipment, including coffee brewers, broiler-based steamers, proofers, warewashers and hot tea brewers. A proportioning forced-feed-orifice delivers a carefully metered amount of a unique high-temperature scale inhibitor, sequestering the hardness minerals that form on boiler walls, sensors, brewer spray heads and heating coils. The media does not break down at temperatures at or above 200°F (93.3°C). The Sanitary Quick Change (SQC) replacement HF8-S cartridge makes change-outs fast and easy.

PRODUCT BENEFITS

- A forced-feed orifice carefully controls and meters the addition of a proprietary scale inhibitor to reduce scale formation in high-temperature foodservice applications.
- Consistent performance at application temperatures over 200°F (93.3°C).
- NSF and/or FDA CFR-21 compliant materials.
- Stainless-steel head.
- 3/4” NPT female inlet and outlet ports allow direct or easily adaptable connections to existing plumbing lines.
- Sanitary Quick Change (SQC) replacement cartridge is fast and easy to change.

PRODUCT SPECIFICATIONS

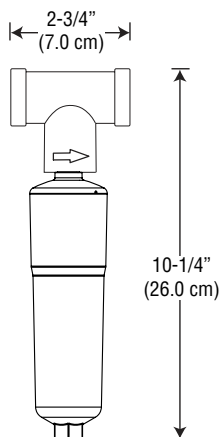
Model Number	Part Number	Reduction Claims	Connections	Replacement Recommendation	Service Flow Rate	Replacement Cartridge
SF18-S	56077-03	Proportioning forced feed-orifice scale inhibition	3/4” Horizontal NPT Inlet and Outlet	12 months or 70,000 gallons (265,000 liters)	Up to 6 gpm (22.7 lpm)	HF8-S 55821-06



SF18-S Scale Inhibition System

3M™ Water Filtration Products

SPEC# _____
QUANTITY _____
MODEL NUMBER _____
PART NUMBER _____



SPECIFICATIONS

- A forced-feed orifice carefully controls and meters the addition of high-temperature scale inhibitor.
- All materials are FDA CFA Title 21 compliant.
- Maximum operating pressure - 125 psi (862 kPa); maximum operating temperature of incoming water - 100° F (37.8° C)
- Head - 316 stainless steel
- Sump - Sanitary Quick Change
- Inlet and outlet connections - 3/4 in NPT, female
- Weight (box of 6) - 14 lbs (6.4 kg)
- Dimensions (box of 6) - 15in x 8in x 8in (20.3cm x 20.3cm x 38.1cm)

⚠ WARNING: To reduce the risk associated with the ingestion of contaminants:

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

3M Purification Inc. recommends regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform as advertised/sold. 3M Purification Inc. shall not be liable for system failures due to improper maintenance.

IMPORTANT: INSTALLATION TIPS

CAUTION: Read, understand, and follow all safety information contained in these instructions prior to installation and use of the SF-18-S Water Filtration System. Retain these instructions for future reference.

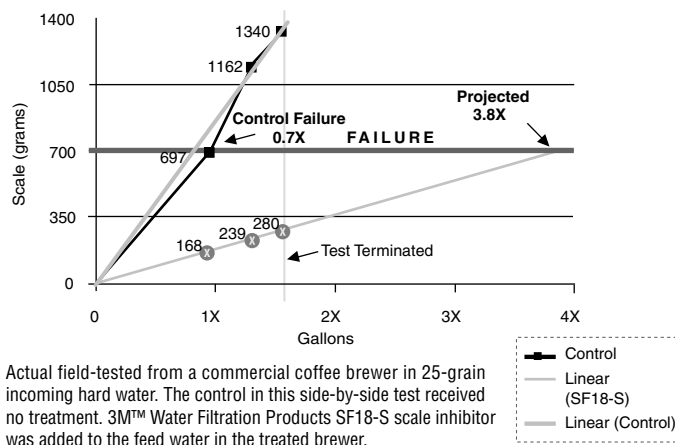
- Read and follow Use Instructions before installation and use of this system.
- Installation and use MUST comply with all state and local plumbing codes.
- Protect from freezing, remove filter cartridge when temperatures are expected to drop below 40° F (4.4° C).
- Do not install if water pressure exceeds 125 psi (862 kPa). If your water pressure exceeds 80 psi (551 kPa), you must install a pressure limiting valve. Contact a plumbing professional if you are uncertain how to check your water pressure.
- Do not install where water hammer conditions may occur. If water hammer conditions exist you must install a water hammer arrester. Contact a plumbing professional if you are uncertain how to check for this condition.
- Do not use a torch or other high temperature sources near filter system, cartridges, plastic fittings or plastic plumbing.
- Do not install in direct sunlight or outdoors without protection from precipitation.
- Ensure all tubing and fittings are secure and free of leaks.
- Mount filter in such a position as to prevent it from being struck by other items used in the area of installation.
- Ensure that the location and fasteners will support the weight of the system when installed.
- The disposable filter cartridge MUST be replaced every 12 months, at the rated capacity or sooner if a noticeable reduction in flow rate occurs.

LIMITED WARRANTY

3M Purification Inc. warrants this Product (excluding disposable filter cartridges) will be free from defects in material and manufacture for five (5) years from the date of purchase. The disposable filter cartridge or membrane is warranted from defects in material and manufacture for a period of one (1) year from the date of purchase. This warranty does not cover failures resulting from abuse, misuse, alteration or damage not caused by 3M Purification Inc. or failure to follow installation and use instructions. No warranty is given as to the service life of any filter cartridge or membrane as it will vary with local water conditions and water consumption. **3M PURIFICATION INC. MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOMER OR USAGE OF TRADE.** If the Product fails to satisfy this Limited Warranty during the warranty period, 3M Purification Inc. will replace the Product or refund your Product purchase price. This warranty does not cover labor. **The remedy stated in this paragraph is Customer's sole remedy and 3M Purification Inc.'s exclusive obligation. For additional information, see the entire Limited Warranty located in the product Installation and Operating Instruction Manual.**

Limitation of Liability. 3M Purification Inc. will not be liable for any loss or damage arising from this 3M Purification Inc. product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states and countries do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THROUGHPUT VS SCALE FORMATION



Actual field-tested from a commercial coffee brewer in 25-grain incoming hard water. The control in this side-by-side test received no treatment. 3M™ Water Filtration Products SF18-S scale inhibitor was added to the feed water in the treated brewer.



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