

3M™ Water Filtration Products

SPEC# _____

QUANTITY _____

application: **SCALE INHIBITION**

model:
SF18-S



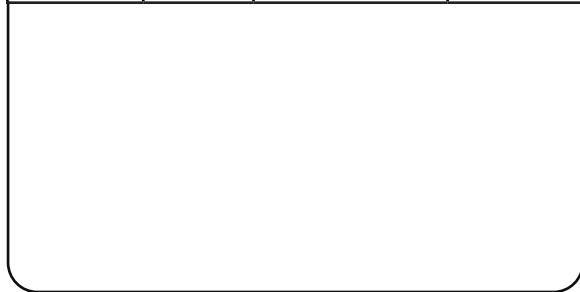
3M™ Water Filtration Products Model SF18-S inhibits scale build-up and corrosion in high-temperature foodservice equipment, including coffee brewers, broiler-based steamers, proofers, warewashers and hot tea brewers. A proportioning forced-feed-orifice delivers a carefully metered amount of a unique 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

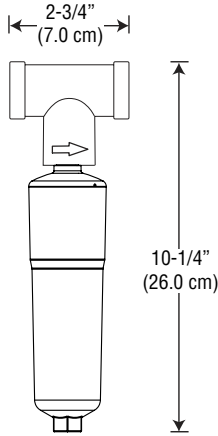
Model Number	Part Number	Reduction Claims	Connections	Replacement Recommendation	Service Flow Rate	Replacement Cartridge
SF18-S	56077-03	Proportioning forced feed-orifice scale inhibition	3/4" Horizontal NPT Inlet and Outlet	12 months or 70,000 gallons (265,000 liters)	Up to 6 gpm (22.7 lpm)	HF8-S 55821-06



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.

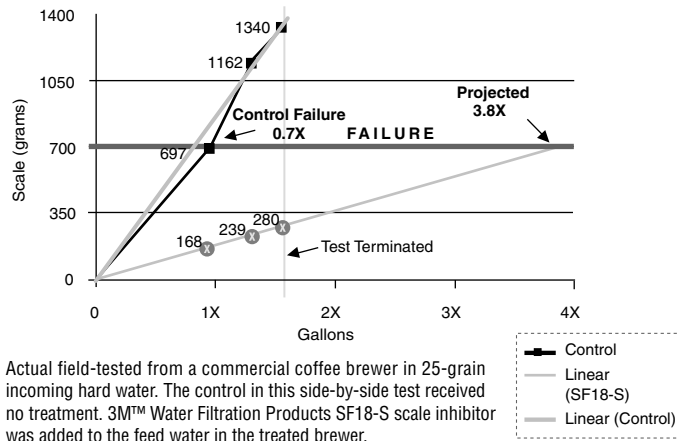
3M Purification Inc. recommends regularly scheduled maintenance and replacement of the filter cartridge in order for the product to perform as advertised/sold. 3M Purification Inc. shall not be liable for system failures due to improper maintenance.

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.

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.

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.



3M Purification Inc.
 400 Research Parkway
 Meriden, CT 06450 U.S.A.
 Toll Free: 1.866.990.9785
 Worldwide: 203.237.5541
 Fax: 203.238.8701
 www.3mpurification.com

3M is a trademark of 3M Company.
 © 2011 3M Company. All rights reserved.
 70-0202-8922-2
 REV 0112



Regulatory Data Sheet

Copyright, 2023, 3M Purification Inc.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M Purification Inc. products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M Purification Inc., and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

This Regulatory Data Sheet is provided as a courtesy in response to a customer request.

Document Group:	42-7956-8	Version Number:	2.00
Issue Date:	05/19/23	Supersedes Date:	12/15/22

3M™ In-line Scale Inhibition System SF18-S

Product Identification Numbers

5607708, 70-0203-1911-0
7100051040

3M Purification Inc.
Separation and Purification Sciences Div
400 Research Parkway, Meriden, CT 06450-1018, USA
1-888-3M HELPS (1-888-364-3577)

RDSs are available at www.3M.com

Regulations and Industry Standards

California Proposition 65

To the best of the manufacturer's knowledge, this product is in compliance with Proposition 65, and reasonably anticipated use of this product will not result in exposure to any Proposition 65 chemicals that would require a Proposition 65 warning.

TSCA 8(a) Nanomaterial Reporting

This product does not contain nanoparticles subject to reporting under TSCA Section 8(a). Under the "Chemical Substances When Manufactured or Processed as Nanoscale Materials: TSCA Reporting and Recordkeeping Requirements" rule, a reportable nanoparticle is defined as having at least one dimension in the size range of 1 – 100 nm and is manufactured or processed to exhibit unique and novel properties because of its size.

Definitions

Note: all Definitions take Disclaimers into account and apply to the "Chemicals and/or Compounds of Interest" and/or "Per and poly-fluoroalkyl Substances (PFAS)" sections only

Terms	Definitions
Contains*	Present based on composition information disclosed by 3M suppliers, analytical testing, or both.
Not known to contain*	<ol style="list-style-type: none"> 1. Analytical measurement for presence is not currently available; 2. If measurement is possible, <ol style="list-style-type: none"> a) The material has not been identified or disclosed to 3M and b) The material has not been specifically quantified or detected; OR

	c) Based on information from raw material suppliers, possible presence as an impurity or by-product at or below regulatory thresholds (e.g., 0.1 or 0.01 %)
Intentionally added**	Desired in the final product to provide a specific characteristic, appearance, or quality and/or to perform a specific function.
Not intentionally added**	By-product(s), impurity(ies) and/or unintended artifact(s) resulting from the formulation and/or manufacture of a material.
By-product***	A chemical substance produced without a separate commercial intent during the manufacture, processing, use, or disposal of another chemical substance or mixture.
Impurity***	A chemical substance which is unintentionally present with another chemical substance (e.g., residuals, catalysts, process solvents).

**Terms apply to the Chemicals and/or Compounds of Interest Section only (if section is present)*

***Terms apply to the PFAS Section only (if section is present)*

****Terms apply to both the Chemicals and/or Compounds of Interest and PFAS Sections (if section(s) are present)*

Disclaimers: The information provided in this document related to material content represents the Manufacturer's knowledge and belief, which may be based in whole or in part on information provided by suppliers to the Manufacturer. This is intended to answer commonly asked questions about the Manufacturer's products and is not intended to be a comprehensive listing of all substances that may be of interest or that may be regulated in this or other products of the Manufacturer, nor is it intended to be a comprehensive summary of any and all regulations that may apply to this product. Where substances are listed, their listing does not infer or constitute a judgment as to their safety, environmental or health impacts. Information is supplied upon the condition that the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. Customers are encouraged to consult with legal and regulatory experts to determine applicable regulations in light of intended use of the product.

Limitation of Remedies and Liability: In the event any Product is proven not to conform with the information in this document, then to the extent permitted by law, the Manufacturer's entire liability and Buyer's exclusive remedy, will be at the Manufacturer's option either: (i) replacement of Product with a conforming product, or (ii) refund of the purchase price paid by Buyer for each non-conforming Product, within a reasonable time after written notification of said non-conformance and return of said Product to the Manufacturer. The Manufacturer shall not under any circumstances be liable for direct, incidental, special, or consequential damages (including but not limited to loss of profits, revenue, or business) related to or arising out of this certification, including, the use, misuse or inability to use the Product. Unless stated otherwise in writing, the foregoing language cannot be waived, modified, or supplemented in any manner whatsoever.