

SPEC# _____

QUANTITY _____

application:

STEAMER EQUIPMENT

models:

STM150 & TSR150

The 3M Purification Inc. Water Filtration Products STM150 and TSR150 ScaleGard™ Plus 2 Reverse Osmosis systems are uniquely designed to produce consistent quality water for the specific reduction of scale causing minerals in boiler based steamer applications. The STM150/TSR150 RO membrane is designed to reject over 96% of minerals that cause scale build-up and equipment problems. Activated carbon and graded density pre-treatment help protect the RO membrane. The post-treatment filters adjust the product water to allow electronic probes to function correctly in water conditions up to 2,000 ppm TDS.



STM150

PRODUCT BENEFITS

- Compact design utilizes quick disconnect fittings, stainless steel bracket and optional wall mounting.
- Provides easy adaptation to existing piping, resistance to rust and corrosion, and easy access to tight areas.
- 220V/50Hz and 100V/50Hz are available for international electrical requirements.
- Includes a build-in bypass solenoid with convenient 3/8" NPT connections.
- Sanitary Quick Change (SQC) encapsulated cartridges reduce contamination during change-outs.
- FDA CFR-21 and/or NSF compliant materials.

PRODUCT SPECIFICATIONS

Model Number	Part Number	Voltage Requirements	Capacity	Performance	Application
STM150	STM150	110V/60Hz	150 gpm (568 lpd) 6.25 gph (23.7 lph)	For moderate TDS conditions	For incoming water conditions under 500 ppm TDS
TSR150	TSR150			For high TDS conditions	For incoming water conditions over 500 ppm TDS

STM150-A @ 220V/50Hz
 STM150-B @ 100V/50Hz
 TSR150-2A @ 220V/50Hz with 20/40 pressure switch
 TSR150-2B @ 100V/50Hz with 20/40 pressure switch
 TSR150-4A @ 220V/50Hz with 40/70 pressure switch
 TSR150-4B @ 100V/50Hz with 40/70 pressure switch

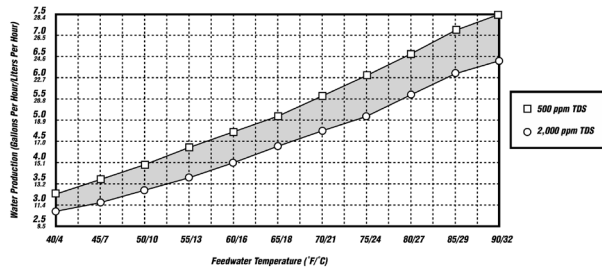
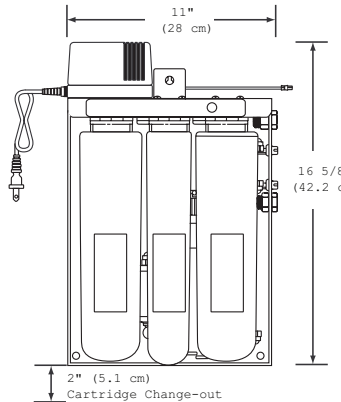


STM150 & TSR150

SPEC# _____
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3M Purification Inc. Water Filtration Products

PHYSICAL SPECIFICATIONS



Sizing Guide

Steamer Size	Electric Steamers					Gas Steamers	
	3 Kw	5 Kw	8 Kw	9 Kw	12 Kw	25,000 BTU	50,000 BTU
Gallons (Liters) req'd per hour	1.2 (4.5)	2 (7.6)	3.2 (12.1)	3.6 (13.6)	4.8 (18.2)	2 (7.5)	3.6 (13.6)
Recommended Unit	STM150 TSR150	STM150 TSR150	STM150 TSR150	STM150 TSR150	STM150 TSR150	STM150 TSR150	STM150 TSR150
Recommended Tank	5 gal.	5 gal.	10 gal.	10 gal.	10 gal.	5 gal.	10 gal.

⚠ 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(s) in order for the product to perform as advertised/sold. 3M Purification shall not be liable for system failures due to improper maintenance.

LIMITED WARRANTY

3M Purification Inc. warrants this Product will be free from defects in material and manufacture for five (5) years from the date of purchase: The filter cartridge or filter membrane is warranted to be free from defects in material and manufacture for one (1) year. 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.

- System incorporates reverse osmosis technology.
- System contains integrated pre- and post- filtration for the reduction of sediment; chlorine taste and odor; and TDS.
- Membrane provides better than 96% rejection of TDS.
- System operates with an integrated booster pump.
- System contains an integrated automatic bypass.
- System to be wall-mountable with stainless steel bracket design.
- System inlet and outlet plumbing connections to be 3/8" quick disconnect.
- System maximum line pressure of 65 psi (448 kPa) and operating temperatures of 100°F (37.8°C).
- System materials are FDA CFR-21 and/or NSF compliant.
- Cartridges are sanitary in design, requiring no contact with the filter media during cartridge change-out.

Replacement Cartridges

Model #	Part #	Type	Used In	Qty. Required
S	55997-01	Sediment Reduction	STM/TSR	1
C	55995-01	Chlorine Taste and Odor Reduction	STM/TSR	1
T	55998-01	TDS Adjustment Filter for STM Units	STM	1
M	55987-07	RO Membrane	STM/TSR	1
H	55996-01	Hardness Reduction for TSR Units	TSR	1

Storage Tank Options

Part Number	Capacity at 60 psi (414 kPa)
55984-05	2.5 gallon (9.5 liter) drawdown
55984-06	5 gallon (18.9 liter) drawdown
55984-07	10 gallon (37.9 liter) drawdown
55984-08	20 gallon (75.7 liter) drawdown
55984-09	40 gallon (151.4 liter) drawdown

IMPORTANT: INSTALLATION TIPS

These installation tips are for informational purposes only and are not intended to be used as actual installation instructions. **CAUTION:** To reduce the risk associated with property damage due to water leakage:

- 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 on hot water supply lines.** The maximum operating water temperature of this filter system is 100°F (37.8°C).
- Do not install** if water pressure exceeds 125 psi (862 kPa). If your water pressure exceeds 80 psi (552 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.
- The disposable filter cartridge **MUST** be replaced every 12 months, at the rated capacity or if a noticeable reduction in flow rate occurs.



3M Purification Inc.
 400 Research Parkway
 Meriden, CT 06450 U.S.A.
 Toll Free: 1.800.243.6894
 Worldwide: 203.237.5541
 Fax: 203.630.4530
 www.3mpurification.com

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