

3M™ Water Filtration Products

# SGLP-RO

## Reverse Osmosis System

**Applications: Combi-ovens, Flash steamers and Espresso**

The 3M™ SGLP-RO Reverse Osmosis (RO) System is designed to produce consistent quality water for the reduction of scale and corrosion causing minerals in combi-oven, flash steamer and espresso applications<sup>1</sup>. The RO membrane is designed to remove many of the minerals that cause scale build-up and corrosion. Activated carbon and graded porosity pre-treatment help protect the RO membrane from chlorine and fine particulate.

**Product Benefits:**

- Cartridge interconnect system allows for quick and easy cartridge change-outs. No spills, no mess.
- Integrated pump requires no power; operates on incoming water pressure<sup>2</sup>.
- Sanitary Quick Change (SQC) encapsulated cartridges reduce contamination during change-outs.
- Rugged stainless steel bracket design is rust and corrosion resistant. Allows system to either be wall-mounted or set on a shelf.
- Compact design allows for installation in tight areas.
- NSF Certified to Standard 58.



**Product Specifications:**

Model #	Part #	Description	System Production	Application
SGLP-RO	5612304	Reverse Osmosis System	53.0 gpd (179.6 lpd)	Combi-ovens, Flash steamers, Espresso

<sup>1</sup> Carbon post filter is recommended when using SGLP-RO in espresso applications.

<sup>2</sup> Minimum 50 psi (344.7 kPa) feedwater pressure required.

# 3M™ Water Filtration Products

SGLP-RO

## Specifications

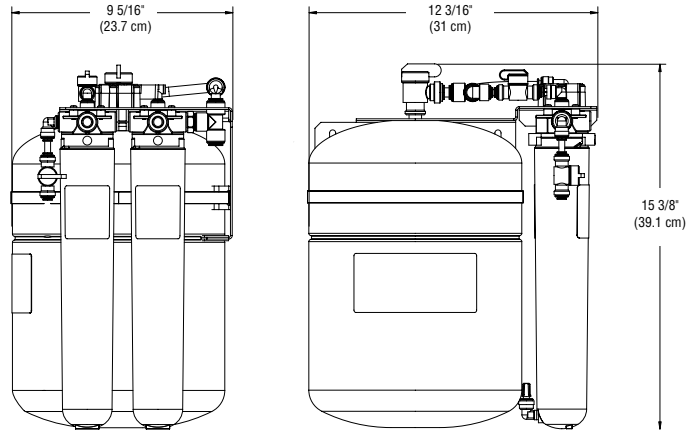
- System incorporates reverse osmosis technology.
- System incorporates non-electric pump.
- System contains integrated pre-filtration for the reduction of particulate and chlorine taste and odor.
- RO membrane is a thin film composite (TFC) type.
- System is wall mountable with a stainless steel bracket design.
- System inlet plumbing connections are 1/4" quick disconnect type.
- System drain plumbing connections are 1/4" quick disconnect type.
- System outlet plumbing connections are 3/8" quick disconnect type.
- System includes an integrated 2 gallon (7.6 liter) water storage tank.
- System produces 53.0 gpd (179.6 lpd).
- System minimum incoming water pressure of 50 psi (345 kPa) & maximum of 100 psi (689 kPa) ± 15%.
- System minimum incoming water temperature of 40°F (4.4°C) and a maximum of 100°F (37.8°C).
- System incoming water pressure must be between 50 and 100 psig ± 15% or external pump is required.

Spec # \_\_\_\_\_

Quantity \_\_\_\_\_

Model # \_\_\_\_\_

Part # \_\_\_\_\_



## Important: Installation Tips

**⚠ WARNING: Read entire manual. Failure to follow all guides and rules could cause personal injury or property damage.**

- Check with your local public works department for plumbing codes. You must follow their guidelines as you install the Water Filtration system.
- Your Water Filtration system will withstand up to 100 pounds per square inch (psi) water pressure. If your water supply pressure is higher than 80 psi, install a pressure reducing valve before installing the Water Filtration system.

**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.

**NOTICE: To reduce the risk associated with water leakage or flooding:**

- Read and follow Use Instructions before installation and use of this system.
- Change the disposable PreFilter and RO Membrane at the recommended interval; the disposable PreFilter and RO Membrane MUST be replaced every 12 months or sooner.
- **Failure to replace the disposable PreFilter and RO Membrane at recommended intervals may lead to reduced filter performance and failure of the filter, causing property damage from water leakage or flooding.**

### Replacement Cartridges

Part Number	Model Number	Type	Qty. Required
5598729	ScaleGard™ RO Membrane	Reverse Osmosis Membrane	1
5570613	ScaleGard™ PreFilter	5 Micron PreFilter Cartridge	1

## Limited Warranty

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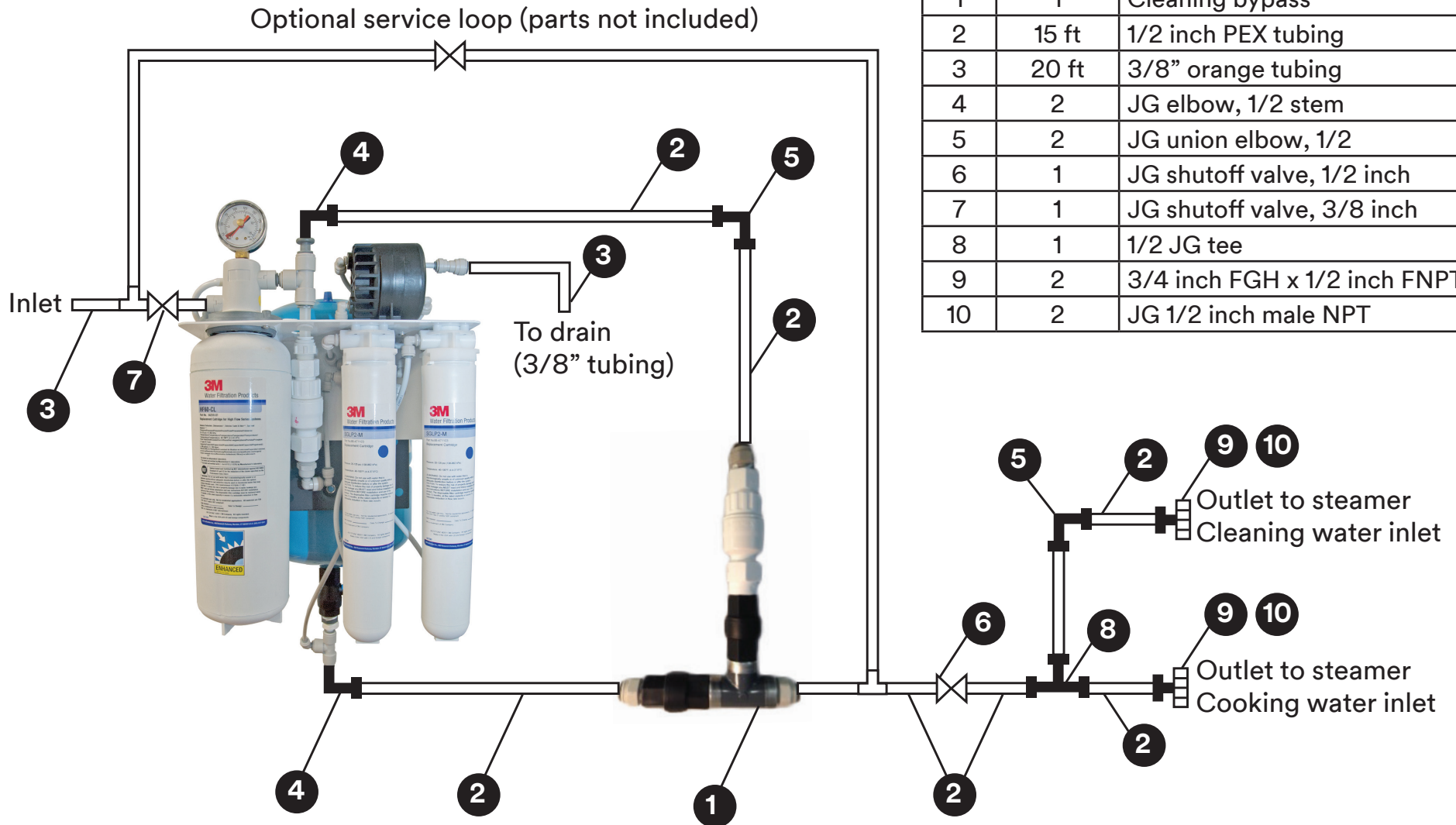


System tested and certified by NSF International against NSF/ANSI Standard 58 and CSA B483.1 for the reduction of the claims specified on the Performance Data Sheet.

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Please recycle. Printed in U.S.A.

Intended Use: The SGLP Cleaning Bypass is intended for use with 3M™ Water Filtration Products for foodservice coffee, espresso, cold beverage, ice, vegetable mister, steamer and combi oven equipment. The SGLP Cleaning Bypass must be installed as specified in the installation instruction by a qualified professional.

# SGLP Cleaning Bypass - Connection Instructions



Parts List

Item	Quantity	Description
1	1	Cleaning bypass
2	15 ft	1/2 inch PEX tubing
3	20 ft	3/8" orange tubing
4	2	JG elbow, 1/2 stem
5	2	JG union elbow, 1/2
6	1	JG shutoff valve, 1/2 inch
7	1	JG shutoff valve, 3/8 inch
8	1	1/2 JG tee
9	2	3/4 inch FGH x 1/2 inch FNPT
10	2	JG 1/2 inch male NPT

**3M** Science.  
Applied to Life.™



3M™ Water Filtration Products

# Clearer Options for your Business

3M Technology for Cold  
Beverages, Ice, Coffee and  
Combi-Oven Applications

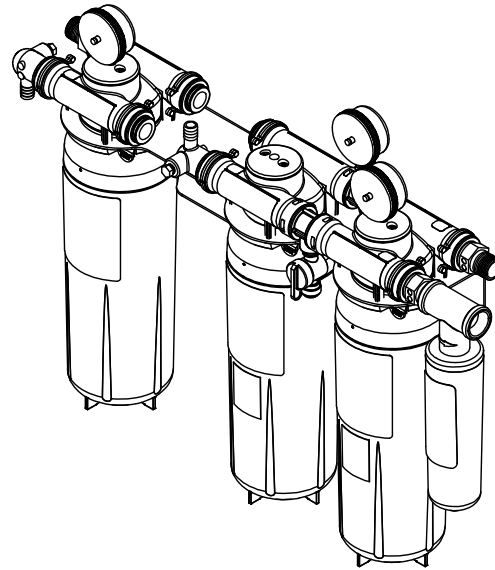
- DF260-CL-CC / DF265-CL-CC
- SGLP-RO Systems



# Water is more than just a critical ingredient in producing high quality ice & cold beverages...

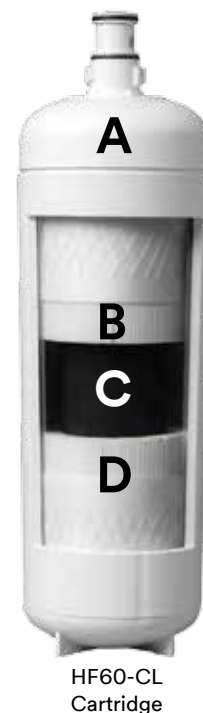
It's a key driver for growing Quick Service Restaurants (QSR) soft drink sales and gross profits.

3M Purification Inc. is dedicated to help QSRs in their efforts to protect brand, increase sales of beverages, and improve efficiency, while reducing overall operating and maintenance costs with the DF260-CL-CC, DF265-CL-CC and SGLP-RO water filtration systems.



## DF260-CL-CC (cyst reduction) DF265-CL-CC (non-cyst reduction)

<b>Pressure Gauges</b>	Easy monitoring of system performance.
<b>HF60-S-SR5 Cartridge</b>	Reduces particulate, cyst, bacteria* & scale for ice machines.
<b>HF60-CL Cartridge</b>	Reduces particulate, cyst, bacteria,* chlorine taste & odor and choramines For cold beverages (model DF260-CL-CC)
<b>HF65-CL Cartridge</b>	Reduces particulate, chlorine taste & odor and choramines For cold beverages (model DF265-CL-CC)
<b>SF18-S Cartridge</b>	Scale Inhibitor for coffee equipment
<b>Water Outlets</b>	Multiple high quality product water outlets
<b>Integrated Membrane Pre-Activated Carbon Technology ("I.M.P.A.C.T.") HF60-CL Cartridge</b>	<p><b>A)</b> Polypropylene filter housing design</p> <p><b>B)</b> Pleated membrane helps provide cyst and bacteria protection, including superior particulate holding capabilities with minimal pressure drop</p> <p><b>C)</b> 3M engineered carbon block technology for reduction of chlorine taste &amp; odor and chloramines</p> <p><b>D)</b> Enhanced pleated membrane has high surface area for increased capacity</p>



\* As tested with E.Coli ATCC (11229)

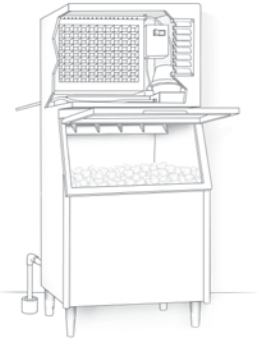
# Combi-Oven Protection with 3M Reverse Osmosis



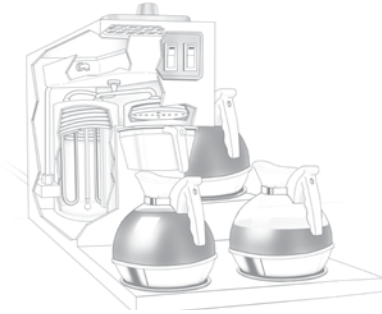
## SGLP-RO Features

- **3M reverse osmosis technology.**  
Effective reduction of scale-causing dissolved minerals in service water.
- **Line pressure system.**  
No power required. Operates on incoming water pressure.
- **Rugged stainless steel bracket design.**  
Rust and corrosion resistant. Allows system to be wall mounted.
- **Compact Design.**  
Allows for installation in tight areas.
- **FDA CFR-21 and/or NSF Compliant Materials.**  
Reliability for potable water applications.
- **Convenient cartridge interconnect system.**  
Allows for quick and easy cartridge change-outs. No spills. No mess.
- **Sanitary Quick Change (SQC) encapsulated filter and membrane design.**  
Reduces possible contamination during change-outs.
- **Large 1.9 gallon pressure tank.**  
Provides a sufficient amount of water, even during peak times.

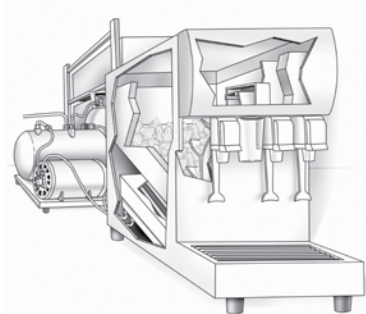
# 3M Solutions for your critical applications.



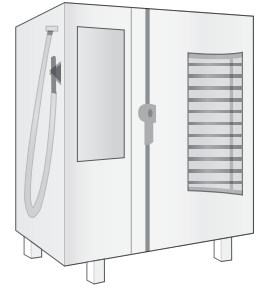
**Commercial  
Ice Machines**



**Coffee/Tea  
Brewers**



**Post Mix &  
Cold Beverages**



**Combi-Ovens/  
Flash Steamers**

**Warranty, Limited Remedy, and Disclaimer:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. User is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application. Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M 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, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

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**3M** Science.  
Applied to Life.™

3M™ Foodservice Water Filtration  
Products | Reverse Osmosis Systems

Filtration fact:  
It's easy to solve  
hard water issues.



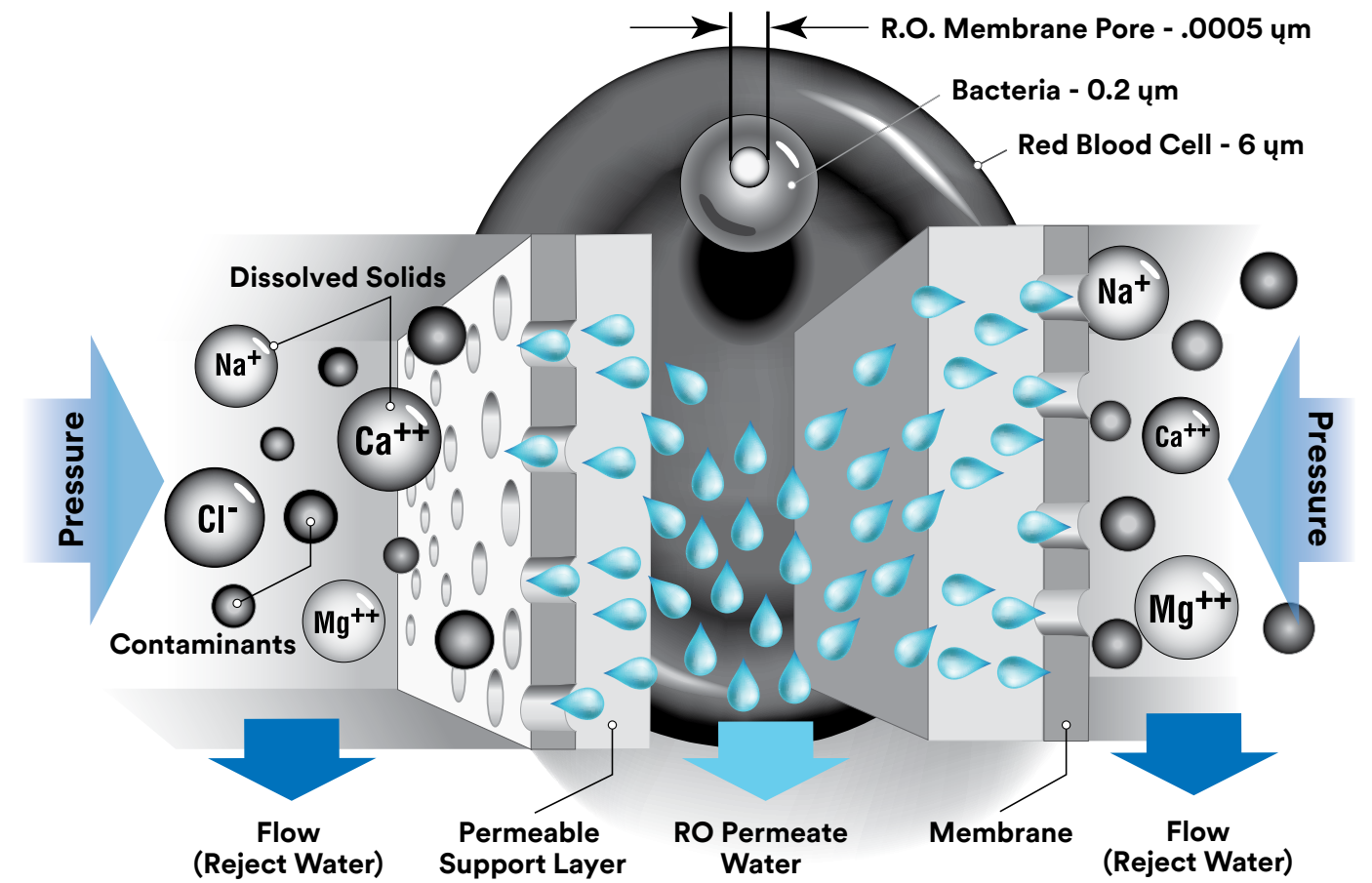


### Is hard water giving you a hard time?

Unfiltered hard water can leave impurities behind that can lead to equipment failure and loss of business.

In the competitive foodservice industry, you know how important product consistency is for growing your business. Unscheduled maintenance calls or service interruptions can jeopardize customer satisfaction and your bottom line. Have confidence in your water with a reverse osmosis system from 3M.

### How a Reverse Osmosis membrane works for your water.



### The Challenge:

When water is cooled, heated or converted to steam, it leaves impurities behind. These impurities cling to the surfaces they come in contact with and can cause problems over time.

### The Solution:

3M™ Water Filtration Reverse Osmosis Systems are designed to reduce hardness minerals, particulates and chlorine taste and odor that can cause equipment to require service, decreasing profitability.



Hard water is found in more than **85%** of the U.S.





**Reverse Osmosis Systems**

Model/Part	Capacity	Type	Reduction Claims
<b>TFS450 RO System includes cartridges</b> 5623901	300 gpd** (1135.6 lpd) without Blending	Line pressure RO system	Particulate, chlorine taste and odor, TDS

(Shipping Dimensions) 7" x 30" x 20" (17.8 cm. x 76.2 cm. x 50.8 cm.)  
See page 7 for storage tank options.

**TFS450 Replacement Cartridge(s)**

Model/Part	Capacity	Type	Reduction Claims
<b>TFS450 Cartpak includes prefilter, post filter, (2) RO cartridges</b> 5624801	NA	SQC style	Particulate, chlorine taste and odor, TDS
<b>TFS450 Cartpak includes (2) RO cartridges</b> 5624803	NA	SQC style	TDS
<b>TFS450 Install Kit</b> 50-91301	NA	Installation Kit	NA

(Connections: inlet) 3/8" FNPT; outlet 1/2" FNPT  
(Product Dimensions) 17-15/16" H x 22" W x 10-5/8" D (45.6 x 55.9 x 27.0 cm)

**Reverse Osmosis Systems for Steamers**



Model/Part	Capacity	Type	Reduction Claims
<b>SGLP-RO with Permeate Pump</b> 5612304	75 gpd* (283.9 lpd)	Line pressure RO system Use RO membrane with p/n 5598729	Particulate, chlorine taste and odor, TDS

(Connections) 1/4" tube inlet/outlet.  
(Product Dimensions) 17-3/4" H x 12-1/4" W x 9-3/8" D (45 cm. x 31.31 cm. x 23.8 cm.)

Model/Part	Capacity	Type	Reduction Claims
<b>FSTM-075 without Permeate Pump</b> 5612306	75 gpd* (283.9 lpd)	Line pressure RO system Use RO membrane with p/n 5598728	Particulate, chlorine taste and odor, TDS

(Connections) 1/4" tube inlet/outlet.  
(Product Dimensions) 15-7/8" H x 12-1/4" W x 9-3/8" D (45 cm. x 31.1 cm. x 23.8 cm.)

**SGLP/FSTM Replacement Cartridge(s) and RO Membranes**

Model/Part	Capacity	Type	Reduction Claims
<b>ScaleGard™ Pre</b> 5570613	NA	SQC style	Particulate, chlorine taste and odor
<b>ScaleGard™ RO (RO Membrane)</b> 5598728	75 gpd* (283.9 lpd)	SQC style. Use RO membrane with p/n 5612306	TDS
<b>ScaleGard™ RO (RO Membrane)</b> 5598729	75 gpd* (283.9 lpd)	SQC Style for SGLP-RO. Use RO membrane with p/n 5612304	TDS
<b>M cartridge</b> 5598725	150 gpd* (568 lpd)	RO Membrane for STM/TSR Systems	TDS

Connections: 1/2" FNPT; outlet 1/2" FNPT Product Dimensions: Contact Factory  
6239301 (ScaleGard HP reverse osmosis system (110V) without prefilter and RO cartridges) Contact Factory for pricing.  
6239302 (ScaleGard HP reverse osmosis system (220V) without prefilter and RO cartridges) Contact Factory for pricing.



**ScaleGard™ HP Reverse Osmosis System**

Model/Part	Capacity	Type	Reduction Claims
<b>ScaleGard™ HP Reverse Osmosis System w/ cartridge and RO membrane</b> 5629101	930-1040 gpd* (2839 -3551 lpd) w/o blending*	(110-120VAC) w/ Prefilter and RO cartridges-USA plug	HF90-CL-RO cartridge: Bacteria <sup>1</sup> , particulate, chloramines, CTO, cyst <sup>2</sup> HFRO500 cartridge: TDS

**ScaleGard™ HP Replacement Membranes**

<b>HF90-CL-RO</b> 5613529	NA	Prefilter for ScaleGard™ HP System	Bacteria <sup>1</sup> , cyst <sup>2</sup> , particulate, chloramines, chlorine taste and odor
<b>HFRO 500*</b> 5626903	NA	RO Cartridge for ScaleGard™ HP System	NA

**ScaleGard™ HP Installation Kit**

<b>ScaleGard™ HP Install Kit</b> 6841441	NA	Installation Kit	NA
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**ScaleGard™ Pre-Expansion Manifolds**

<b>SGHP Pre-EXP</b> 6235205	NA	Pre-Expansion Manifold	NA
<b>SGHP RO-EXP</b> 6232705	NA	RO-Expansion Manifold	NA

**SGLP-CL Reverse Osmosis Systems for Combi Ovens and Steamers**



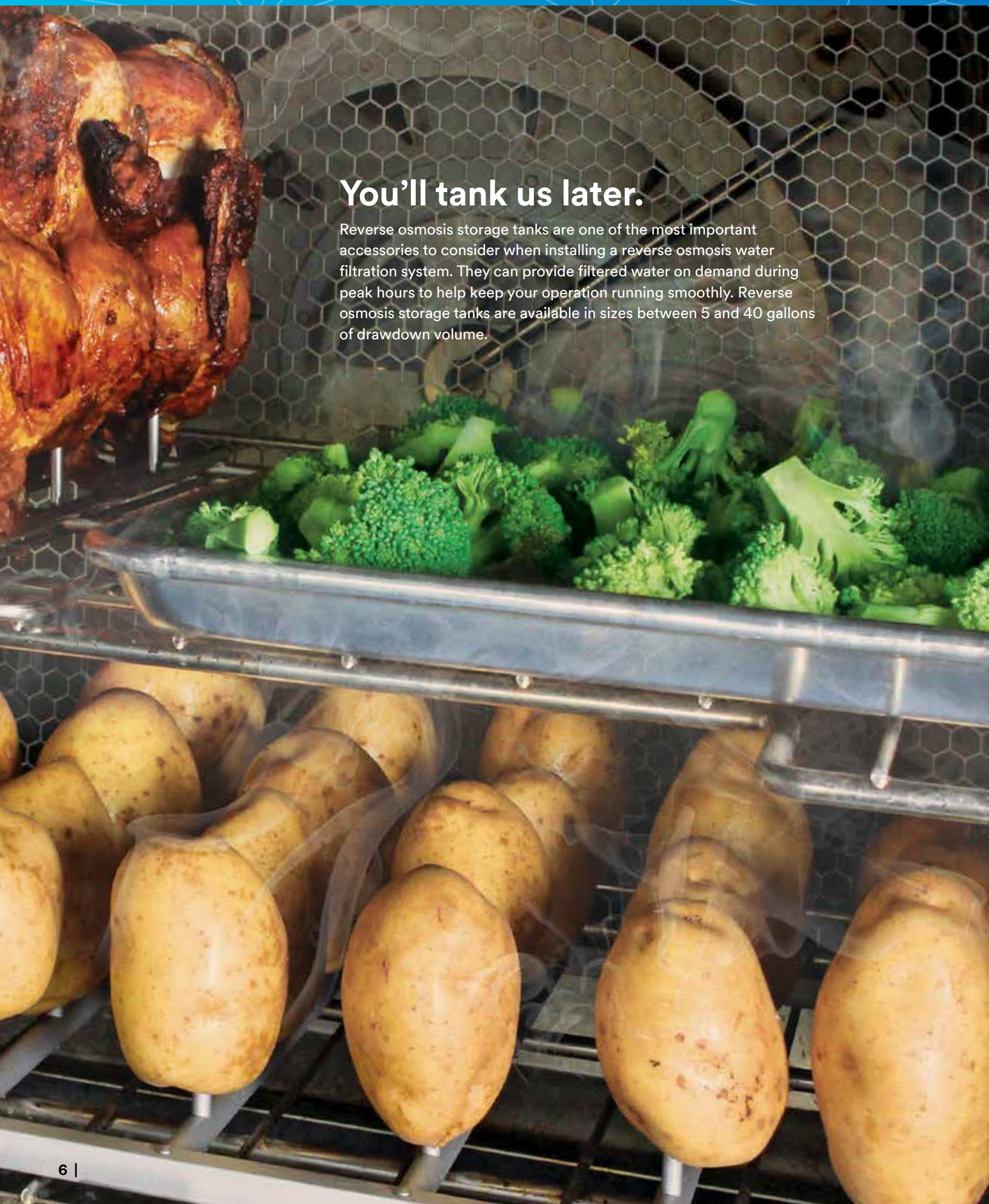
<b>SGLP100-CL</b> 5636201	100 gpd* (378.5 lpd)	Combi Oven and Boilerless steamer RO System - Single Oven (Cleaning bypass sold separately)	Particulate, chlorine taste and odor, chloramines and TDS
<b>SGLP100-CL-BP</b> 5636204	100 gpd* (378.5 lpd)	Combi Oven and Boilerless steamer RO System - Single Oven Includes Cleaning Bypass	Particulate, chlorine taste and odor, chloramines and TDS
<b>SGLP200-CL</b> 5636202	200 gpd* (757 lpd)	Combi Oven and Boilerless steamer RO System - Two High Ovens (Cleaning bypass sold separately)	Particulate, chlorine taste and odor, chloramines and TDS
<b>SGLP200-CL-BP</b> 5636203	200 gpd* (757 lpd)	Combi Oven and Boilerless steamer RO System - Two High Ovens Includes Cleaning Bypass	Particulate, chlorine taste and odor, chloramines and TDS

**SGLP-CL Accessories, Replacement Prefilter and RO Membrane(s)**

<b>Cleaning Bypass Assy</b> 50-94201	NA	Used for single water inlet ovens and steamers	NA
<b>HF65-CL</b> 5628902	7,000 gals. (26,498 lit.)	Replacement prefilter cartridge	5 micron; Particulate, chloramines, chlorine taste and odor
<b>CFS M (RO Membrane)</b> 5625004	100 gpd* (378.5 lpd)	SQC style replacement RO membrane	TDS

<sup>1</sup> As tested and verified with e.Coli ATCC (11229) by manufacturer's laboratory  
<sup>2</sup> Based on the use of Cryptosporidium parvum oocysts






Maximum 18-month change-out recommended. Periodical evaluation of membrane recommended for optimum quality and flow.  
\*RO production rates listed are at a water pressure and temperature of 60 psi and 77°F producing water at atmosphere.  
\*\*RO production rates listed are at a water pressure and temperature of 70 psi and 77°F producing water at atmosphere.  
Actual RO production rates may vary depending on water-temperature, incoming water quality and other factors.



## You'll tank us later.

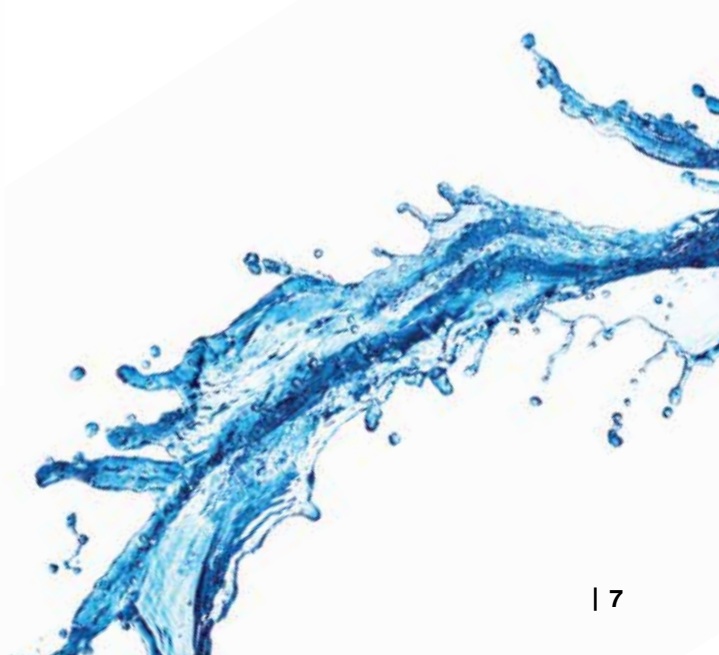
Reverse osmosis storage tanks are one of the most important accessories to consider when installing a reverse osmosis water filtration system. They can provide filtered water on demand during peak hours to help keep your operation running smoothly. Reverse osmosis storage tanks are available in sizes between 5 and 40 gallons of drawdown volume.

### Reverse Osmosis Storage Tanks

Model/Part	Dimensions	Ship Wt.
 <b>2.5 gallon RO Storage Tank w/ 90° 1/4" JG Ball Valve</b> 5598405	17" H x 11" W x 17" L (43.2 cm. x 27.9 cm. x 43.2 cm.)	Contact Factory
 <b>5 gallon drawdown Tank for STM/TFS RO Systems. Comes with connection kit</b> 5598406	16-1/2" H x 15" D (41.9 cm. x 38.1 cm.)	20 lbs. (9.1 kg.)
 <b>10 gal. drawdown Tank w/ connection kit</b> 5598407	32-1/2" H x 16" D (81.9 cm. x 40.6 cm.)	23 lbs. (10.4 kg.)
 <b>20 gal. Pneumatic Tank w/ 1" Ball Valve Assy.</b> 5591202	56-3/4" H x 16" D (144.1 cm. x 40.6 cm.)	42 lbs. (19.1 kg.)
 <b>40 gal. drawdown Tank w/ 1-1/4" Ball Valve Assy.</b> 5591203	55-1/2" H x 24-1/4" D (141.0 cm. x 61.6 cm.)	87 lbs. (39.5 kg.)



Storage tanks feature  
**1/4" to 1-1/4"**  
NPT female connections that  
make installation easy.



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