

3M™ Water Filtration Products | Foodservice Systems

# SGLP100-CL & SGLP200-CL Series Reverse Osmosis Systems

for use in combi-oven and steamer applications.

## Technical Data Sheet

### Introduction

The 3M reverse osmosis water filtration systems featured here are designed to produce consistent Recipe Quality Water™ and help reduce scale and corrosion in combi-ovens and steamers. Their reverse osmosis (RO) membrane is designed to reduce hardness minerals and total dissolved solids (TDS) that may cause maintenance costs or shortened equipment life.

### Product Benefits

- ▶ Prefilter reduces particulates, chloramines, chlorine taste and odor from the incoming water to help protect equipment.
- ▶ Quick and easy cartridge change-outs—no spills, no mess.
- ▶ No electricity needed—integrated pump operates on incoming water pressure.<sup>1</sup>
- ▶ Sanitary Quick Change (SQC) encapsulated cartridges reduce media contamination during change-outs.
- ▶ Wall-mounted steel bracket is rust and corrosion resistant.
- ▶ Compact for installation in tight spaces.

### Product Specifications

Model Number	Part Number	Description	Capacity <sup>2</sup>	Application
SGLP100-CL	5636201	Reverse Osmosis System	100 gpd (379 lpd)	Combi-ovens, Steamers
SGLP100-CL-BP	5636204	Reverse Osmosis System w/bypass	100 gpd (379 lpd)	Combi-ovens, Steamers
SGLP200-CL	5636202	Reverse Osmosis System	200 gpd (757 lpd)	Combi-ovens, Steamers
SGLP200-CL-BP	5636203	Reverse Osmosis System w/bypass	200 gpd (757 lpd)	Combi-ovens, Steamers
SGLP Bypass (Accessory included with SGLP100-CL-BP and SGLP200-CL-BP systems. Not intended for use on SGLP100-CL and SGLP200-CL systems.)	50-94601	SGLP Bypass Kit	N/A	Combi-ovens, Steamers

<sup>1</sup> Minimum 60 psi (413.6 kPa) feedwater pressure required.

<sup>2</sup> RO production rates listed are at a water pressure and temperature of 60 psi and 77° F producing water at atmosphere.

SGLP100-CL and SGLP200-CL are intended in applications where the RO product water is used only for cooking (i.e. ovens with a separate water inlet for cleaning). The water used for cleaning the oven may be unfiltered water or filtered only through the HF65-CL pre-filter.

SGLP100-CL-BP and SGLP200-CL-BP include autobypass kit (i.e. Ovens with a single water inlet connection), which allows those systems to be used in applications where product-water outlet is used for both steaming and cleaning the oven.



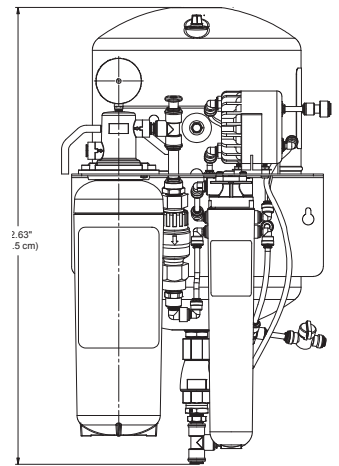
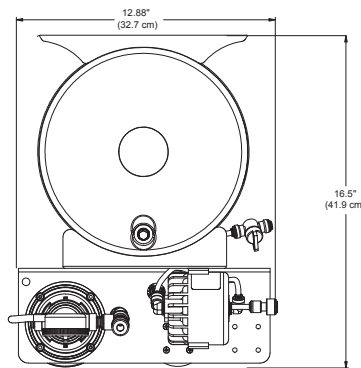
SGLP200-CL System

# SGLP100-CL & SGLP200-CL Series Reverse Osmosis Systems

## Specifications

- ▶ System incorporates reverse osmosis technology.
- ▶ System incorporates a non-electric pump.
- ▶ System contains integrated pre-filtration for the reduction of particulate, chloramines and chlorine taste and odor.
- ▶ RO membrane is a thin film composite (TFC) type.
- ▶ System is wall mountable with a steel bracket design.
- ▶ System inlet plumbing connections are 3/8" quick disconnect type.
- ▶ System drain plumbing connections are 3/8" quick disconnect type.
- ▶ System outlet plumbing connections are 1/2" quick disconnect type.
- ▶ System includes an integrated water storage tank.
- ▶ System minimum incoming water pressure of 60 psi (414 kPa) and maximum of 125 psi (889 kPa). External booster pump is required for incoming pressure less than 60 psi (414 kPa).
- ▶ System minimum incoming water temperature of 40° F (4.4° C) and a maximum of 100° F (37.8° C).
- ▶ System includes plumbing connection for optional 1/2" port for providing pre-filtered water for cleaning cycle.

SGLP100-CL



## Replacement Cartridges

Model Number	Part Number	Type	Qty. Required
HF65-CL	5628902	5 micron, particulate, chloramines, chlorine taste and odor pre-filter cartridge	1
CFS M	5625004	Reverse Osmosis Membrane cartridge	1 (SGLP100-CL), 2 (SGLP200-CL), 1 (SGLP100-CL-BP), 2 (SGLP200-CL-BP)

## Product Selection and Use:

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. As a result, end-user is solely responsible for evaluating the product and determining whether it is appropriate and suitable for end-user's application, including completing a risk assessment that considers the product leachable characteristics and its impact on drug safety conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

**Warranty, Limited Remedy, and Disclaimer:** 3M warrants this Product to be free from defects in material and workmanship for one (1) year from the date of manufacture. This warranty does not cover failures resulting from abuse, misuse, alteration or damage not caused by 3M 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 MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 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.

## Limitation of Liability:

Except for the limited remedy above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential, (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

## ⚠ 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 cartridge.
- Your water filtration cartridge will withstand up to 125 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 cartridge.

## 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.
- DO NOT use with water that is unsafe or unknown quality with respect to any contaminants.
- DO NOT use on a water source that does not meet the water quality and safety standard criteria set forth by your local regulatory body. ONLY install on a portable cold-water supply (your water must be safe for consumption prior to installing and using this water filter).

## 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 filter cartridge at the recommended interval; the disposable HF65-CL model 5628902 pre-filter cartridge MUST be replaced every 12 months or sooner.
- Change the disposable membrane filter and membrane cartridges at the recommended interval; the disposable CFS M model 5625004 RO membrane cartridge MUST be replaced every 24 months or sooner.
- Failure to replace the disposable filter cartridge at recommended intervals may lead to reduced filter performance and failure of the filter, causing property damage from water leakage or flooding.



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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

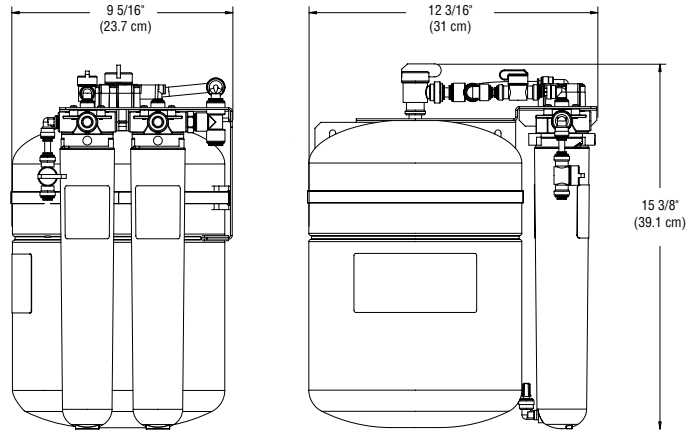
- System incorporates reverse osmosis technology.
- System incorporates non-electric pump.
- System contains integrated pre-filtration for the reduction of particulate and chlorine taste and odor.
- RO membrane is a thin film composite (TFC) type.
- System is wall mountable with a stainless steel bracket 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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**3M** Science.  
Applied to Life.™

3M™ Foodservice Water Filtration  
Products | Reverse Osmosis Systems

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



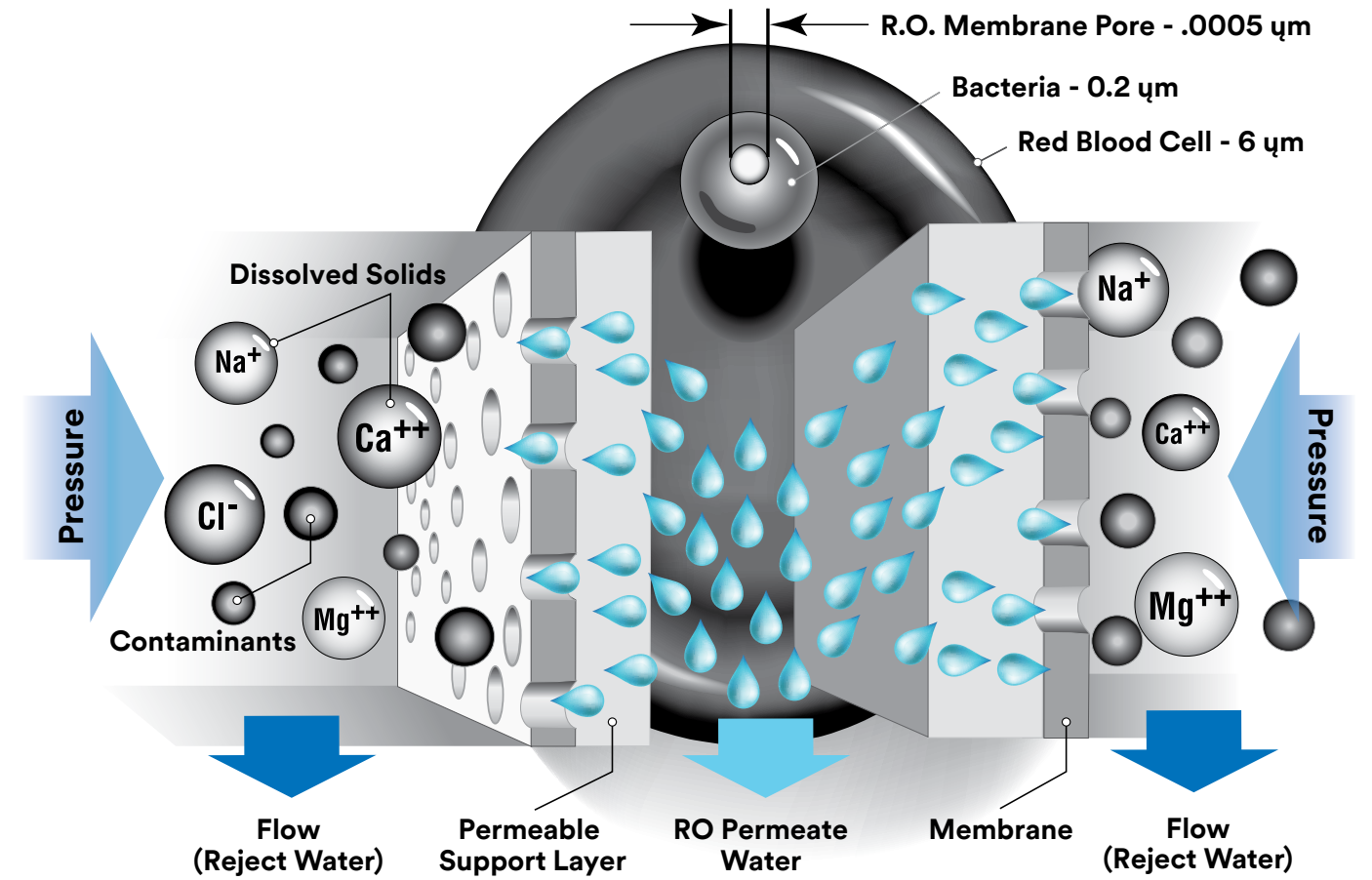


### Is hard water giving you a hard time?

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

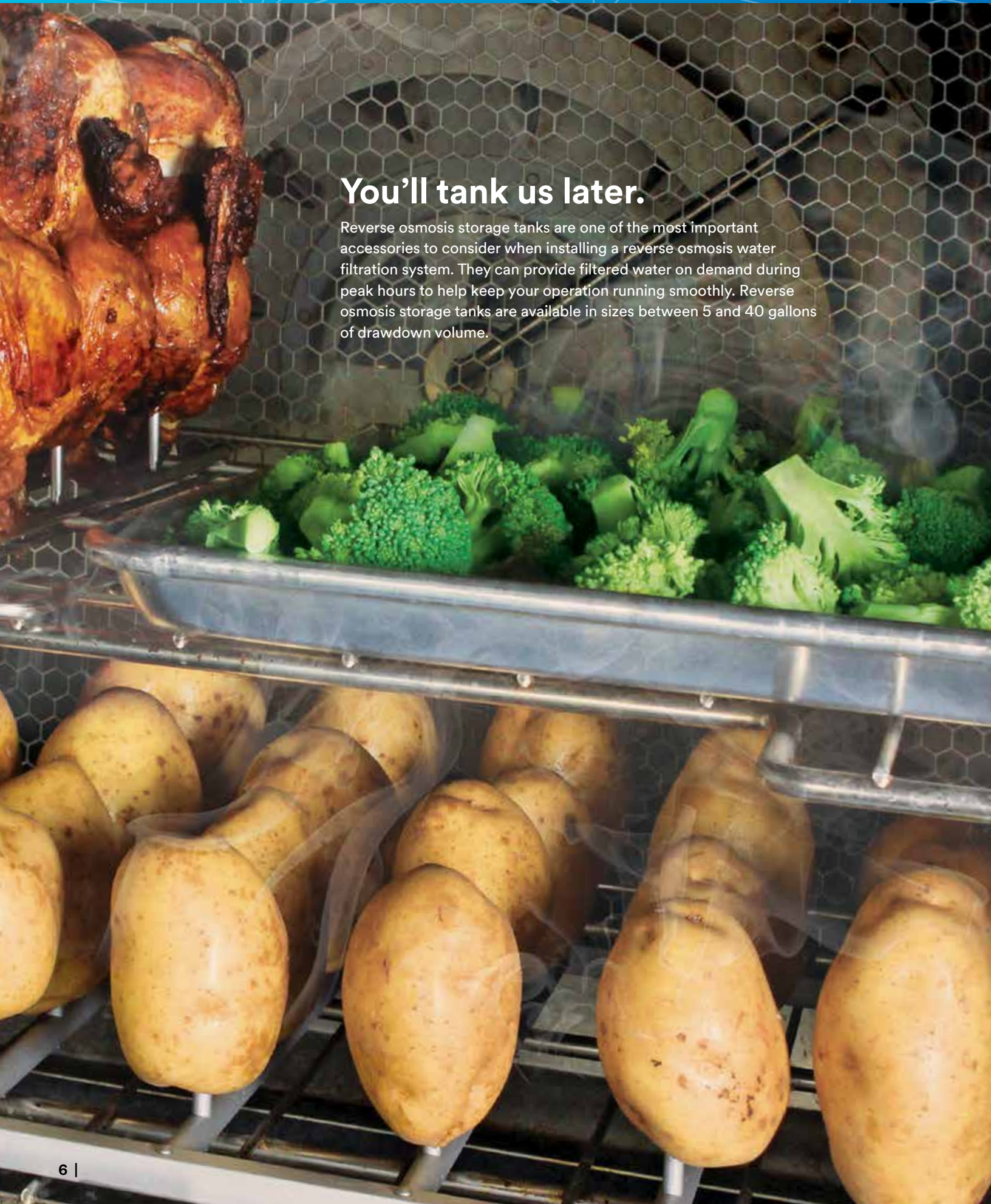
**SGLP-CL Accessories, Replacement Prefilter and RO Membrane(s)**

<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.

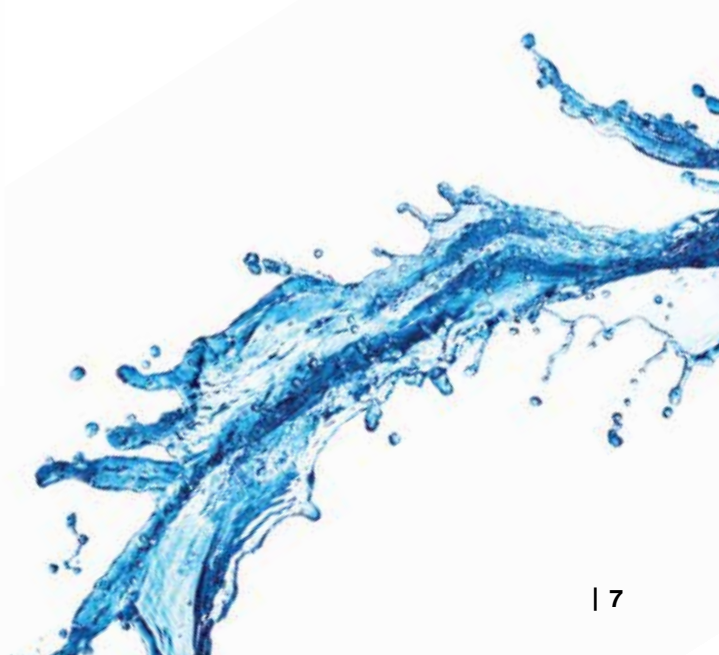
Reverse osmosis storage tanks are one of the most important accessories to consider when installing a reverse osmosis water filtration system. They can provide filtered water on demand during peak hours to help keep your operation running smoothly. Reverse osmosis storage tanks are available in sizes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