

3M™ Water Filtration Products
SGLP2-BL Reverse Osmosis System



Better Water
Better Coffee
Better Business

3M

The Key is Recipe Quality Water™

- In the competitive foodservice industry, specialty coffee is a business-critical part of your operation.
- Specialty coffee is 98 - 99% water; the better the water, the better the brewed cup quality.
- Customer loyalty is often formed by a consistently great cup of specialty coffee. Yet you're also challenged with managing the costs.
- Recipe inconsistencies, equipment down time, service calls – they all threaten customer satisfaction and profit margins.

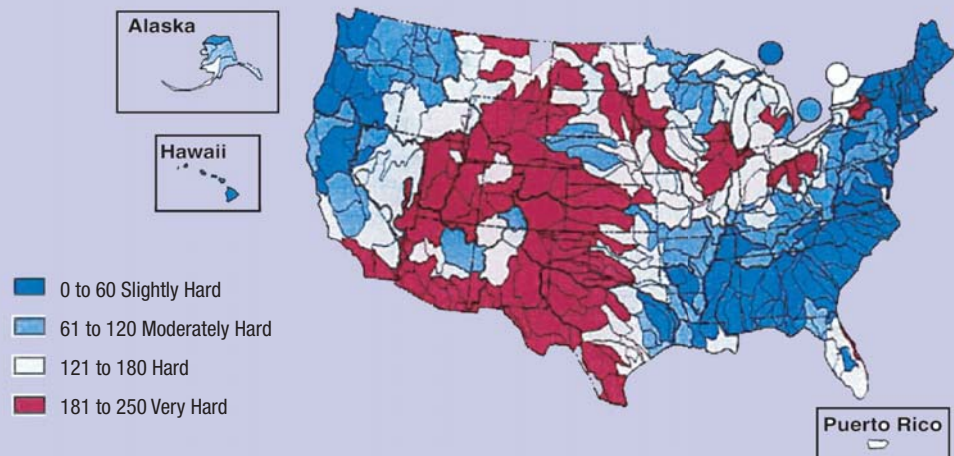
NOW YOU CAN HAVE RECIPE QUALITY WATER FOR CONSISTENTLY BETTER-TASTING SPECIALTY COFFEE NO MATTER WHERE YOU ARE LOCATED

Cup quality will vary as a result of water inconsistencies from location to location.

Concentration of Hardness as Calcium Carbonate

In ppm (parts per million); one grain of hardness is 17.1 ppm

Much of the world has what is termed 'hard' water. In the United States for example, over 70% of water is hard. Lime scale is the result of mineral deposits from hard water.



Mean hardness as calcium carbonate at NASQAN stations during 1975 water years. Information derived from <http://water.usgs.gov/owq/map1.jpeg>

With a ScaleGARD™ LP2-BL Reverse Osmosis Water Filtration System, you can save hundreds or thousands of dollars a year on scale-related maintenance and equipment-replacement costs.

Why is Hard Water a Problem?

When water is heated or converted to steam, it leaves impurities behind, such as hardness minerals. These impurities cling to the solid surfaces they come in contact with, and over time, can build up and cause problems:

- Unsightly hard scale build-up
- Increased operating costs for de-liming and maintenance
- Increased downtime
- Inefficient operation causing higher energy costs



The ScaleGARD LP2-BL System

the difference is clear...

Scale causes equipment down time, reduces efficiency, and affects both water level and temperature controls.

1/8" of scale = 25% energy loss = \$300 per year (average)

- Scale may cause inconsistent volumes and incorrect flavor profiles in brewers
- Scaled level indicators may cause overflow of the equipment
- Scale will typically cause longer brewing times and incorrect (lowered) brewing temperatures
- Service calls for scale problems may cost hundreds of dollars, including travel, parts and labor

Hardness minerals can build up within the steamer, feed water pipes and boilers, thus increasing the probability of equipment downtime and the need for maintenance.

Untreated Water



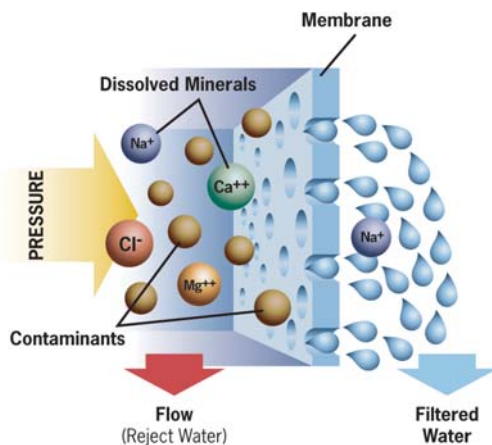
Without filtration, impurities in water can result in increased build up on the steamer surfaces resulting in increased maintenance and the possibility of reduced equipment life.

With ScaleGARD



The ScaleGard LP2-BL Reverse Osmosis Water Filtration System helps keep the steamer cleaner, thus reducing maintenance costs and downtime.

How Does the ScaleGARD LP2-BL Reverse Osmosis System Work?



The heart of the ScaleGard LP2-BL system is a state-of-the-art high-production reverse osmosis membrane (see illustration). Raw water, under pressure, is forced through microscopic pores in the synthetic membrane while larger dissolved solids (ions) and heavy molecular weight contaminants are continually flushed away as reject water. Filtered water travels between the double-sided membrane until it reaches a center core, which then delivers the product water to the storage tanks. Minerals may be added into the specialty coffee water for recipe-quality taste while straight RO water is fed to the flash steamer.

ScaleGARD LP2-BL Plumbing Diagram

Separate Water Quality

- RO Water for the flash steamer
- Mineral adjusted RO water for great tasting specialty coffee



This diagram is for reference only. Please refer to installation and use instructions. Failure to install, operate and maintain this system properly may result in property damage due to water leakage and will void warranty.

Two Water Qualities for Specialty Coffee and Flash Steamers



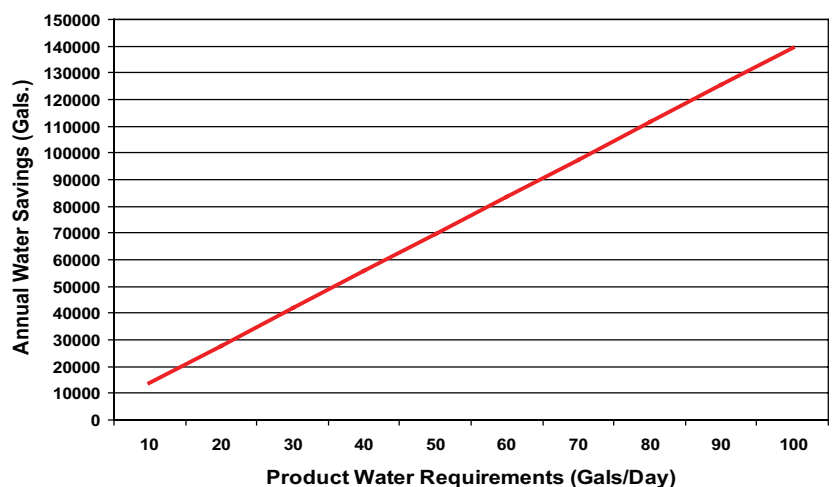
- ① High-production RO membranes reduce the minerals that cause lime scale & the resulting equipment damage & maintenance costs.
- ② Better tasting specialty coffee with adjustable precision blending valve.
- ③ Sanitary Quick Change (SQC) cartridge design helps reduce the possibility of contamination during change-outs.
- ④ Patented cartridge interconnect system with quick and easy cartridge change-outs. No spills, no mess.
- ⑤ Delivers a sufficient amount of water, even during peak time, from a built-in 2.5 gallon pressure tank and a remote 20-gallon storage tank (see Plumbing Diagram).
- ⑥ Rugged rust and corrosion-resistant bracket design allows system to be wall mounted.
- ⑦ Pressure gauge indicates outlet supply pressure.
- ⑧ Keeps running during high-demand periods and power outages with automatic non-electrical by-pass.

Annual Water Savings vs. Traditional RO Systems*

The SGLP2-BL RO system from 3M results in considerable savings in both water utility and water sewage costs as compared to traditional RO systems. In fact, a restaurant can save up to 190 gallons of water for every 50 gallons of product water used!

* See notes below:

- Comparison vs. traditional RO system with 20% recovery
- Assumes an incoming TDS value of 250. Savings will vary with different inlet TDS values.



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