

# 3M™ Water Filtration Products

SPEC# \_\_\_\_\_

QUANTITY \_\_\_\_\_

application: **COFFEE/ESPRESSO/STEAMERS/ICE/COLD BEV**

## models: **ScaleGard™ HP Reverse Osmosis System**



The ScaleGard™ HP reverse osmosis system produces 930-1,040 gpd<sup>1</sup> gallons of Recipe Quality Water™ per day for a great tasting cup of coffee, espresso or cold beverage. Equipped with a precision blending valve, this wall-mountable system allows a store owner to dial in the desired level of dissolved-minerals for the perfect cup of coffee, espresso or cold beverage.

The system also incorporates a “smart” diagnostic monitoring system that alerts the operator when the ScaleGard HP system requires maintenance. This feature helps to ensure that the system is performing properly.

The ScaleGard HP incorporates a modular design that allows the system to grow with business needs. Simply add RO and Pre-Filter/RO expansion heads to double the RO water production.

### PRODUCT BENEFITS

- Can easily double RO production by adding RO and Pre-Filter expansion heads (Sold Separately)
- Pre-Filter cartridge contains Integrated Membrane Pre-Activated Carbon Technology (“I.M.P.A.C.T.”) media which includes Chlorine/Chloramines protection to reduce corrosion and protects the RO membrane
- Alerts the operator when the system’s cartridges need to be replaced or system requires maintenance
- Precision blending allows store owner to dial in the desired level of dissolved minerals for Recipe Quality Water™
- Base system produces 930-1,040 gpd<sup>1</sup> (0.64-0.72 gpm) of RO water
- The integrated heavy duty booster pump provides long pump life, helps reduce maintenance cost, and runs quietly
- Real-time pressure and TDS monitoring
- Permeate rinse for added TDS reduction and control
- Allows for small footprint and easy installation
- High RO efficiency capacity of up to 80% recovery (with blending) which allows for high water savings
- Sanitary Quick Change (SQC) cartridge design allows for quick cartridge change-outs
- Available in 110/60Hz and 220V/50Hz (recommend dedicated 15 Amp circuit)

### PRODUCT SPECIFICATIONS

Model Number	Description	Part Number	Reduction Claims	Capacity
<b>ScaleGard™ HP Reverse Osmosis System</b>	High Flow Reverse Osmosis System	5629101 <sup>2</sup> USA	—	930-1,040 gpd 2,839-3,551 liters
		6239301 <sup>3</sup> USA		N/A
		6239302 <sup>4</sup> EU		N/A
		6239303 <sup>5</sup> UK		N/A
		6239304 <sup>6</sup> AU		N/A
<b>HFRO-500</b>	High Flow Reverse Osmosis Membrane	5626903	N/A	—
<b>HF90-CL-RO</b>	Pre-Filter*	5613529	0.2 micron, bacteria <sup>7</sup> , sediment, chlorine taste and odor, chloramines, cyst <sup>8</sup>	—
<b>BEV140/BEV160</b>	Post-Filter* (Required/Sold Separately)	5616201/5616301	bacteria <sup>7</sup> , bacteriostatic, sediment, chlorine taste & odor, cyst <sup>8</sup>	25,000 gal./35,000 gal. 94,635 lit./132,489 lit.
<b>ScaleGard™ HP Reverse Osmosis System Installation Kit</b>	Installation Kit (Sold Separately)	6841441	—	—
<b>SGHP Pre-EXP</b>	SGHP Pre-Expansion Assembly Manifold	6235205	—	—
<b>SGHP RO-EXP</b>	SGHP RO-Expansion Assembly Manifold	6232705	—	—

\* For more pre-filter, post filter and tank options, please refer to the Foodservice Price Book

1. Production rate is dependent on water temperature and blending valve setting.

2. ScaleGard HP reverse osmosis system (110-120VAC) with Pre-Filter and RO cartridges with USA plug.

3. ScaleGard HP reverse osmosis system (110-120VAC) without Pre-Filter and RO cartridges with USA plug.

4. ScaleGard HP reverse osmosis system (220-240VAC) without Pre-Filter and RO cartridges with EU plug.

5. ScaleGard HP reverse osmosis system (220-240VAC) without Pre-Filter and RO cartridges with UK plug.

6. ScaleGard HP reverse osmosis system (220-240VAC) without Pre-Filter and RO cartridges with AU plug.

7. As tested and verified with *e.Coli* ATCC (11229) or *Pseudomonas (B) diminuta* ATCC (19146) by manufacturer's laboratory.

8. Based on the use of *Cryptosporidium parvum* oocysts.



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SPEC# \_\_\_\_\_  
 QUANTITY \_\_\_\_\_  
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 PART NUMBER \_\_\_\_\_

## IMPORTANT: INSTALLATION TIPS

These installation tips are for informational purposes only and are not intended to be used as actual installation instructions.

- Maximum Inlet Water TDS of <1000 ppm
- Maximum Inlet Water Hardness of <10 grains
- Maximum Total Chlorine Concentration <0.1 ppm or mg/l

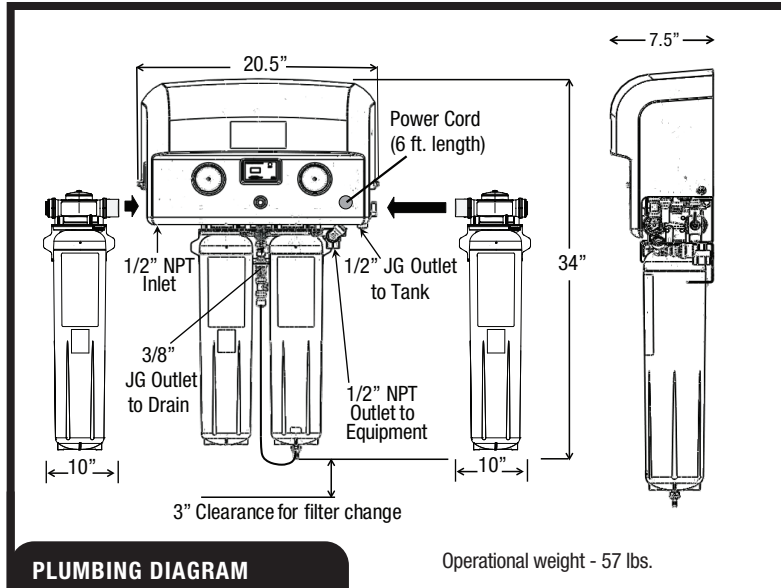
**⚠ WARNING: To reduce the risk associated with the ingestion of contaminants:**

• Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

• An approved post filter and tank must be used with the RO system.

**NOTICE: To reduce the risk associated with property damage due to water leakage or flooding:**

- Read and follow Use Instructions before installation and use of this system.
- Change the disposable RO membrane cartridge every 24 months, or sooner if a noticeable increase in TDS occurs.
- Change the disposable pre and post filter cartridge every 6 months or sooner if you observe a noticeable reduction in water flow rate.
- Failure to replace the disposable filter cartridge at recommended intervals may lead to reduced filter performance and cracks in the filter housing, causing water leakage or flooding.



## PLUMBING DIAGRAM

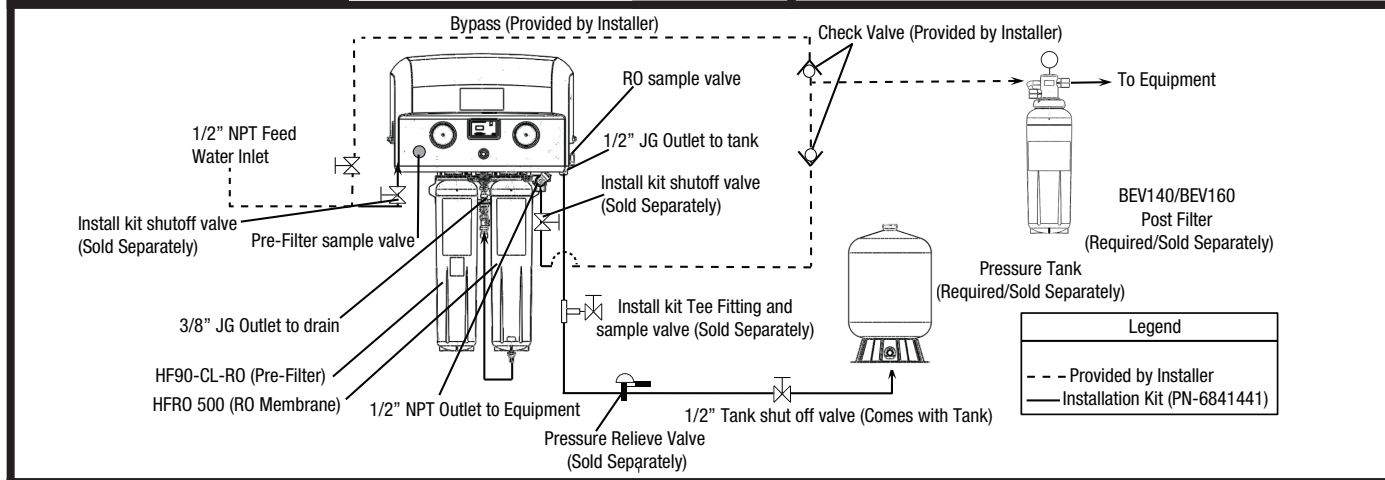


Diagram is for quick reference only. Installation must be performed in accordance with the Installation and Use Manual accompanying the product.

3M Purification Inc. (3M Purification) 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.

## WARRANTY, LIMITED REMEDY, AND DISCLAIMER

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