

3M™ SCALEGARD™ HIGH FLUX REVERSE OSMOSIS SYSTEM FOR FOOD SERVICE

3M™ ScaleGard™ High Flux Reverse Osmosis System produces 3000 – 4500 litres per day* of Recipe Quality Water™ for great tasting hot or cold beverages. The system also reduces the scale that can build-up in valuable equipment, such as combi-ovens, steamers and espresso machines, to help maintain peak performance and avoid costly maintenance.

The ScaleGard High Flux reverse osmosis systems are available in two base models delivering a high instantaneous flow rate of RO quality water nominal 1.89 lpm (3028 lpd)* using a single RO-cartridge and 3.14 lpm (4542 lpd)* using twin RO-cartridges. Equipped with a precision TDS blending valve and a large display menu, this wall-mountable system allows operators to dial in the desired level of dissolved minerals for the perfect cup of coffee, espresso or cold beverage. At under half the height** and a smaller width compared to the ScaleGard HP reverse osmosis system, the ScaleGard High Flux reverse osmosis system offers a space-saving compact design.

The system also incorporates a diagnostic monitoring system with a large display panel that alerts the operator when the system requires maintenance. This feature helps to ensure that the system is performing properly. The 3M™ ScaleGard™ High Flux Reverse Osmosis System incorporates an expandable, modular design that allows the system to grow with business needs. Simply add RO and Pre-Filter expansion heads to increase the RO water production or extend the life of the pre-filters.

PRODUCT BENEFITS:

- 77% water efficiency achieved without a water softener**
- Easily accessible TDS blending valve with live outlet reading on display panel for precise adjustment
- Compact size at only 40.6.cm high x 36.9 cm wide x 16.0 cm deep** includes integrated manifold, switches, and valves
- Available in two base models, delivering 3028 (single membrane) and 4542 (dual RO modules) LPD*
- 3028 LPD is also expandable to 4542 LPD to meet increased water demand needs.* Pre-filter and membrane expansion sets sold separately.
- Built-in pump for high production rate per RO-module and unique low-noise and vibration design
- Sanitary quick change pre-filter cartridge with Integrated Membrane Pre-Activated Carbon Technology ("I.M.P.A.C.T.") media which includes chlorine protection to reduce corrosion and protects the RO membrane
- Easy-to-install and easy-to-service with easy to navigate modern, large-screen display menu

PRODUCT SPECIFICATIONS:

Power Supply: 100-240V 50/60Hz

Rated Power (Watts): 180 W

Min. Inlet Water Pressure: 207 kPa

Max. Working Pressure: 862 kPa

Water Temperature: 4.4-37.8°C

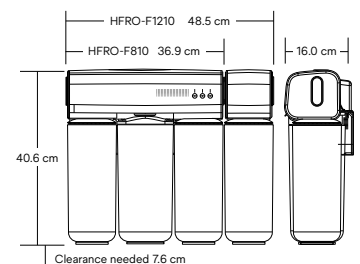
Nominal RO Daily Production:
3028 LPD for the single RO and
4542 LPD for twin RO*



HFRO-F810



HFRO-F1210



* Nominal production rate of membrane when running to atmosphere (i.e., with empty tank) at 25 °C and 413.7 kPa is 3028 litres/day and 4542 litres/day. Water efficiency and production vary based on pressure (fullness) of storage tank, incoming water pressure and temperature.

** 3M ScaleGard High Flux Reverse Osmosis System HFRO-F810 (3028 LDP, single RO cartridge).

PRODUCT SPECIFICATIONS

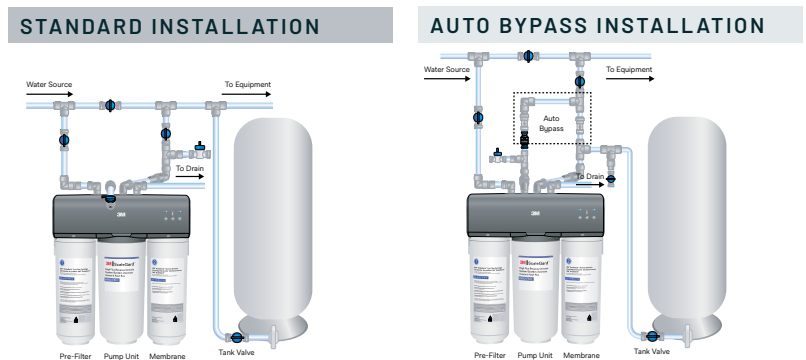
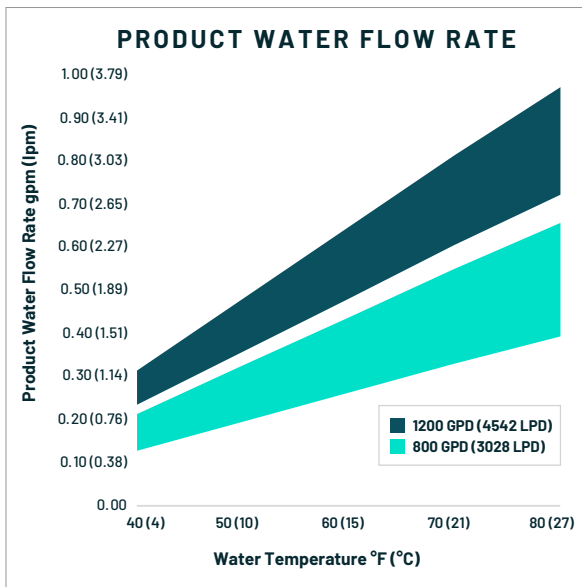
SAP ID	NAME AND NUMBER	DESCRIPTION	ELECTRICAL	CERTIFICATIONS	REDUCTION CLAIMS
Systems					
7100394729	3M™ ScaleGard™ High Flux Reverse Osmosis System HFRO-F810 (EU- Plug Type C)	Single RO System with install and auto bypass kits	230V	NSF 42, 53, 58*, 372 ACS, DM25	Chlorine Taste & Odour, Particulate, Cyst, TDS, Bacteria**
7100394730	3M™ ScaleGard™ High Flux Reverse Osmosis System HFRO-F1210 (EU- Plug Type C)	Twin RO System with install and auto bypass kits	230V	NSF 42, 53, 58*, 372 ACS, DM25	Chlorine Taste & Odour, Particulate, Cyst, TDS, Bacteria**
Replacement filters					
7100325929	3M™ ScaleGard™ High Flux Reverse Osmosis Replacement Pre-Filter SG-HFRO P10-SI	Replacement Cartridge, Pre-filter	N/A	NSF 42, 53, 372 ACS, DM25	Chlorine Taste & Odour, Particulate, Cyst, Bacteria**
7100325931	3M™ ScaleGard™ High Flux Reverse Osmosis Replacement Membrane SG-HFRO M18	Replacement Cartridge, RO	N/A	NSF 58* ACS, DM25	TDS
Add-ons					
7100325930	3M™ ScaleGard™ High Flux Reverse Osmosis Pre-Filter Expansion Kit, SG-HFRO P10-SI EXP	Add-on Pre-Filter (Includes Head and Cartridge P10-SI)	N/A	NSF 42, 53, 58*, 372 ACS, DM25	Chlorine Taste & Odour, Particulate, Cyst, Bacteria**
7100325932	3M™ ScaleGard™ High Flux Reverse Osmosis System Membrane Expansion Kit, SG-HFRO M18-EXP	Add-on RO Membrane (Includes Head and RO CTG M18)	N/A	NSF 58* ACS, DM25	TDS

* Tank 7100402582 (60 litres), 7100402699 (80 litres), 7100402698 (200 litres) or 7100402697 (300 litres) required for NSF 58 certification; sold separately.

** Tested and verified with E. coli ATCC (112299) by manufacturer's laboratory.

SAP ID	SPARE PART DESCRIPTION
7100336945	SG-HFRO Install Kit
7100336944	SG-HFRO Auto Bypass Kit
7100336946	Replacement Pump Assembly for HFRO-F810
7100336953	Replacement Pump Assembly for HRO-F1210
7100336947	SG-HFRO Port Caps Set
7100336949	SG-HFRO Connector Set
7100336948	HFRO F810 Solenoid Valve Set
7100336950	HFRO F1210 Solenoid Valve Set
7100336955	SG-HFRO Pressure Switch Set

SAP ID	SPARE PART DESCRIPTION
7100336951	SG-HFRO System Door Assembly
7100336906	SG-HFRO System Dual TDS Probe Set
7100336905	SG-HFRO Pre-Filter Head Assembly (A3 Key)
7100336907	SG-HFRO Reverse Osmosis Head Assembly (A5 Key)
7100336954	SG-HFRO System PCB Main Assembly
7100336908	SG-HFRO System Pressure Gauge Attachment
7100336952	SG-HFRO System Check Valve
7100401719	SG-HFRO Power Adapter Type C (EU)



INSTALLATION TIPS:

- Consider installing the twin RO system (HFRO-F1210) for higher water demands to help refill the tank faster and reduce the pump runtime.
- Consider installing a tank of appropriate size to help provide water to meet peak water demand considering that colder water takes more time to refill the tank than 25°C.
- Consider installing the autobypass to automatically switch to supply of non-RO water filtered using the prefilter when tank runs out of RO-water. The autobypass switches back automatically to RO water when tank is adequately refilled.
- Periodically check the water production rate and TDS reduction to verify the performance of the system.

Technical Information: This information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgement to the information. No license under any Solventum or third-party intellectual property rights is granted or implied with this information.

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3M Drinking Water Filtration is now Aqua-Pure™ Water Filtration

Solventum Purification SAS

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