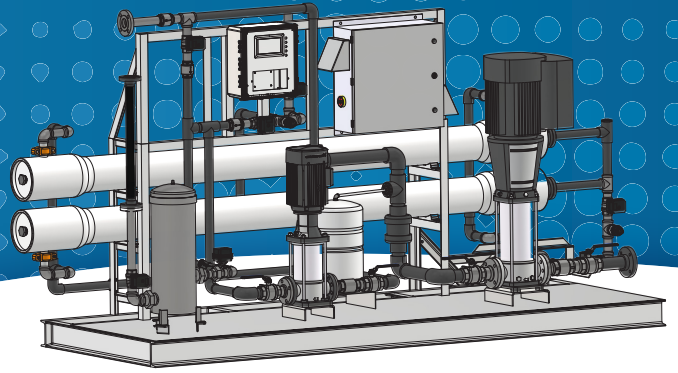# EASYWATER®

SmartGuard™
REVERSE OSMOSIS

An intelligent and dependable RO system that doesn't require softener or chemical pretreatment

SmartGuard RO is an intelligent water filtration system built to work hard and think hard. You'll get the water quality you need without the downtime and maintenance headaches associated with typical reverse osmosis systems.

SmartGuard Features & Benefits:

MICROPROCESSOR DRIVEN WITH TOUCH SCREEN

EASYWATER® | SmartGuard RO SG-6000
3:28:20 PM 11/08/23
v1.0.0 - SG1500xxxxxxxxx

| STATUS | TANK / PSI | TDS / FLOW | LEVELS | HISTORY |

Status: System Is Idle   Step: Idle
Runtime: 11:04
Gallons 24hr: 25
Tank 1: 80.4
RO GPM: 0.62
System PSI: 74.3

NOTIFICATIONS (0)   68% 78% 82%
Pre RO Post

OPERATIONS   SERVICE   SETTINGS

- SmartGuard combines a powerful on-board microprocessor with digital sensors and custom firmware
- Measures and reports performance data, operation alarms and maintenance needs
- Touch screen display keeps you informed of system and filter condition and provides an on-board interface for making adjustments
- Dry contacts provide remote monitoring and remote control capability for building automation systems (BACnet option available)

AUTOMATIC BYPASS

- Senses low tank volume and automatically bypasses itself
- Partially filtered or raw water is automatically delivered as needed while SmartGuard works to re-fill your tank

CUSTOMIZED WATER PROFILE

- Customizable for ultra high purity applications using mixed-bed DI, electrodeionization, UV, sub-micron filtration, etc
- Automatic TDS blending adjusts to provide consistent water quality according to your desired outlet TDS set point
- Dual output of different TDS water profiles available for applications requiring both pure RO water and partially remineralized RO water
- Both the raw RO permeate and blended/remineralized RO outlet quality are digitally measured and alarmed if outside of range
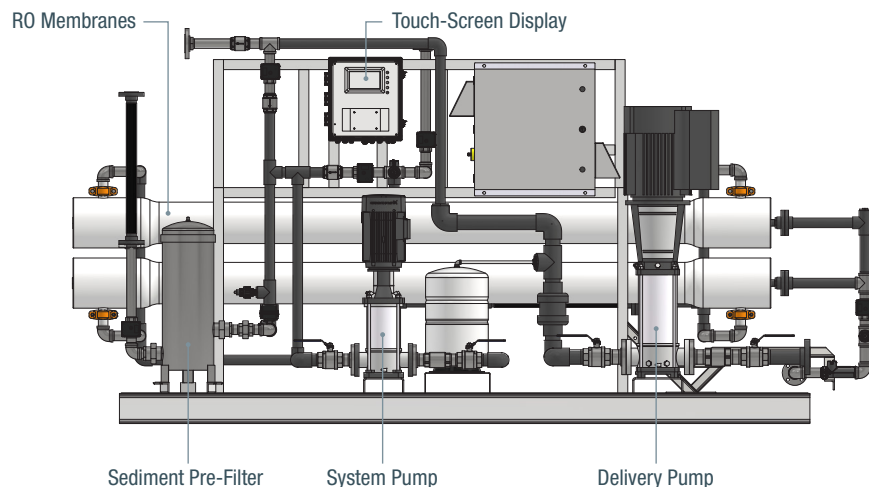
PROGRAMMABLE DRAIN/RECOVERY RATIO

- SmartGuard automatically adjusts system components to maintain performance amidst changing feed water and filter conditions
- Calculates recovery rate and varies drain flow to maintain targeted efficiency ratio
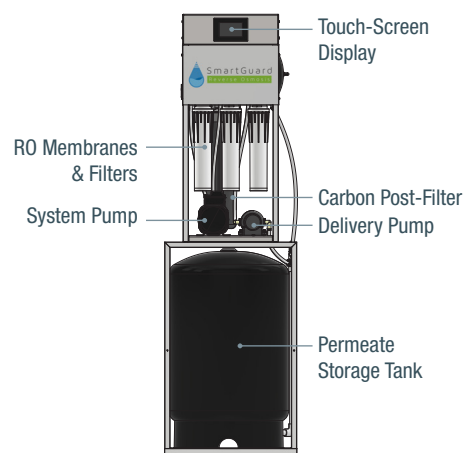- Provides consistent performance while maximizing energy, water and filter use

INTEGRATED WATER CONDITIONING AND CLEANING

- SmartGuard eliminates the associated cost, regulation, and pollution from the use of chemicals and salt
- EasyWater's proprietary No-Salt Conditioner treatment is integrated in to the SmartGuard platform to reduce mineral and biological fouling
- Includes a high purity self-cleaning and purge cycle to extend filter life without salt or chemical pre-treatment

SMARTGUARD SG-36K

RO Membranes — Touch-Screen Display

Sediment Pre-Filter | System Pump | Delivery Pump

SMARTGUARD SG-1000

Touch-Screen Display

RO Membranes & Filters

System Pump

Carbon Post-Filter

Delivery Pump

Permeate Storage Tank

Model #[1]	Nominal GPD Sizing [2]	Permeate GPM Max [3]	Membrane Sizes & Array
SG-500	500	.3	3 - 3" x 10"
SG-1000	1,000	.6	3 - 3" x 15"
SG-2000	2,000	1.25	1 - 4" x 40"
SG-4000	4,000	2.5	2 - 4" x 40"
SG-6000	6,000	3.75	3 - 4" x 40"
SG-8000	8,000	5	4 - 4" x 40"
SG-12K	12,000	7.5	6 - 4" x 40"
SG-18K	18,000	11	3 - 8" x 40"
SG-24K	24,000	15	4 - 8" x 40"
SG-36K	36,000	22	6 - 8" x 40"
SG-48K	48,000	30	8 - 8" x 40"
SG-72K	72,000	45	12 - 8" x 40"
SG-96K	96,000	60	16 - 8" x 40"
SG-144K	144,000	90	24 - 8" x 40"
SG-192K	192,000	120	32 - 8" x 40"
SG-240K	240,000	150	40 - 8" x 40"
SG-288K	288,000	180	48 - 8" x 40"
SG-336K	336,000	210	56 - 8" x 40"
SG-384K	384,000	240	64 - 8" x 40"
SG-432K	432,000	270	72 - 8" x 40"
SG-864K	864,000	540	144 - 8" x 40"

Compact sizes, storage tanks, delivery pumps, DI filtration, UV sanitization and .2 micron post filtration are among the many options available with SmartGuard RO. Contact EasyWater or local rep for more info.

[1] To select an RO Model #, first determine the maximum gallons per day (GPD) needed and the maximum gallons per hour (GPH) needed during peak usage. Next, determine the maximum flow rate (GPM) that needs to be delivered to the point of use. These design parameters are used to select the RO system Model #, storage tank capacity and delivery pump size to meet these GPD, GPH, and GPM demands.

[2] As a general rule, the actual volume needed per day should not exceed 50% of the nominal rating. "Nominal GPD Sizing" is not a practical design parameter and is based on 24/7 operation with ideal pressure, temperature, TDS and filter condition.

[3] "Permeate GPM Max" gives a realistic expectation of the peak performance in actual operating conditions.