

## Snapshot

The OptiPure® BWS350/50 is a Blended Water System that utilizes reverse osmosis (RO) to remove >97% of the total dissolved solids (TDS) from water. The RO water is precisely blended with filtered water to a user desired TDS level to produce "Optimized" water. The system operates at line pressure and can produce up to 400 gallons per day. The BWS350/50 is a complete system that includes integrated pre-filtration with particulate and chlorine reduction, reverse osmosis, and precision blend capabilities in a space saving, wall-mount design. An adjustable Reject Flow Control allows precise adjustment of Product/Reject Ratio. The system features a built-in full system bypass valve and sample port to assure no service interruption and simplifies routine maintenance. Also included is a 50 gallon atmospheric storage tank with a top-mounted, variable-flow repressurization system and a sub-micron, hydrophobic air breather. Hose, tubing and fittings required for installation are included.

## System Benefits

- Virtually eliminates scale & corrosion problems related to high TDS & water hardness, and reduce the potential for corrosion related to water chemistry.
- Maximizes equipment operating and energy efficiency.
- High capacity parallel pre-filtration protects the membrane against damaging chlorine and reduces filter replacement frequency.
- Precision Blending Valve allows the user to accurately and precisely blend filtered water with water from the RO to a desired (Optimized) TDS level.
- Dual-read digital TDS meter provides push-button monitoring of membrane performance and optimized water quality.
- Sample Port allows quick and simple system checks and adjustments.
- Built-in pressure gauge allows visual monitoring of operating pressure.
- Adjustable Reject Flow Control Valve minimizes water use due to seasonal fluctuations in water temperature.
- Integrated system Bypass Valve eliminates down-time or service interruptions.
- All consumables are easy-to-change Qwik-Twist cartridges.
- Simple, easy-to-service and maintain design.

ITEM #: \_\_\_\_\_ QTY: \_\_\_\_\_

JOB NAME/NUMBER \_\_\_\_\_

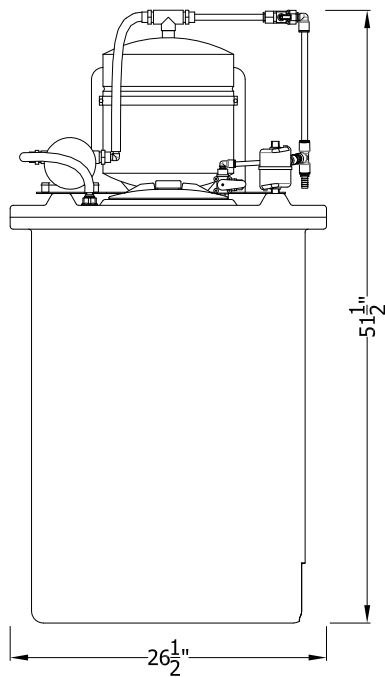
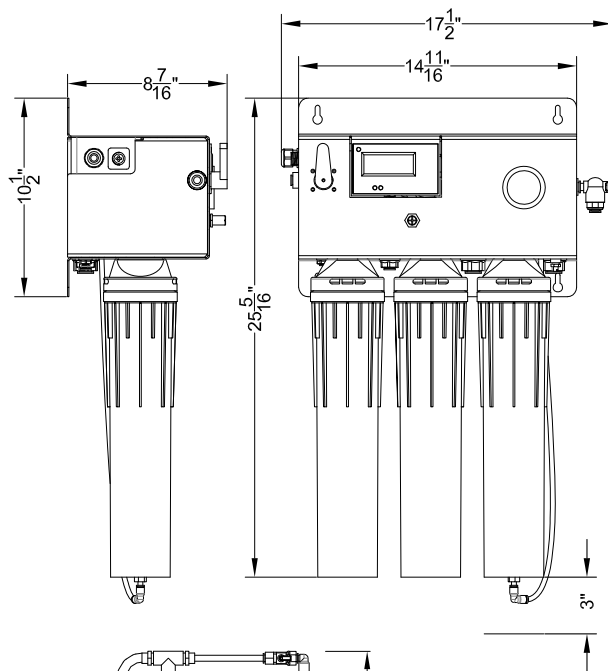


## Application

Provides ideal water for steam cooking, espresso and coffee equipment or any foodservice application where high quality water with no scaling tendencies is desired; or where high TDS or improper mineral balance is a problem.

## Installation Tips

- Feed-water connection to system should be COLD only.
- Do not exceed system specifications for temperature and pressure.
- Provide a dedicated 1/2" water line to the unit to consistent flow and pressure to the system.
- Allow 3" clearance below system for filter cartridge removal and replacement.
- Connect filtered water line to steam production connections only. Do not use for condenser water.
- Detailed installation, operation & maintenance manual is included with each system.
- Mount the BWS350 processor where the Water Quality Monitor and ByPass Valve can be easily viewed and accessed.



Note: Repressurization Pump/ Buffer Tank Stand Assembly can be removed from top of tank and placed on floor or shelf in close proximity of the tank. Use Remote Kit PN: 164-89150.

### Feed-Water Chemistry

Feed TDS	Up to 1200 ppm
Feed pH	6-10
Hardness*	12 grains or less
Free Chlorine	<2 mg/l
Iron	0.1 mg/l max
Turbidity	0.05 NTU
Manganese	0.05 mg/l max
Hydrogen Sulfide	0.0 mg/l

\*For water outside of these parameters call OptiPure technical service.

Dealer/Distributor Info:

Mfg. by Procam Controls, Inc.  
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## Specifications

System		
Dimensions	Processor Tank	25.3"hx17.5"wx8.4"d 51.5"hx26.5"dia.
Connection - Feedwater		3/8" Push Fit Tubing
Operating Pressure Range		50-85 psi at 1 gpm (3.5 -5.9 bar)
Inlet Water Temperature Range		40° -100° F (4° -38° C)
Shipping Weight		100 lbs.
Power Requirements (Within 5' of unit)	Processor RP Pump	120V 6W 60Hz 120V 2A 60Hz
Drain Connection (Within 5' of unit)		2 GPM Minimum Flow
Performance		
Typical TDS* Rejection		97+%
Product Water Production (at 77°F, 60psi)		350 gals/day 14.6 gals/hr 0.25 gpm
<i>Production rate is strictly dependent on feed water temperature and pressure.</i>		
Blended Water Production		Up to 400 GPD
Repressurization Pump (Self-priming)		0.25-2.75gpm at 50 psi

## Replacement Media

Description	Part Number	Qty
CTO-Q Pre-Filters	300-05830	2
AMS-QT Membrane	204-53040	1

It is recommended that PreFilters be changed every 6 months, when capacity is reached or when feedwater pressure or flow becomes inadequate. Membrane life varies depending on feedwater conditions and PreFilter maintenance. 12-18 months under typical conditions but it can be as long as 3-5 years.

## Options

Description	Part Number
ScaleX2 Pre-Treatment	160-52101
QT10-1 CTO Post-Treatment	160-52009
BPS-QT FeedWater Booster Pump	164-85020
FX-11CR Chloramine Reduction System	160-50011
PRV- Pressure Reducing Valve	164-89938

This product is for commercial use only and must be installed and maintained according to manufacturers guidelines.

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

## Warranty

Systems have a 1 year warranty against defects in material and workmanship. For complete warranty information contact OptiPure customer service or go to the OptiPure website.