



WPS-1200 Water Purification Systems

Consolidated offers two water systems as part of the WPS-1200 line. The WPS-1200-RO reverse osmosis water purification system produces Type III laboratory-grade water ideal for steam sterilizers and glassware washers. This robust system includes an RO module and a reservoir tank. Each module consists of two pre-treatment filters and a reverse osmosis filter. The pre-treatment filters remove particles larger than 5 microns, free chlorine, chloramines, and other undesirable traits. The reverse osmosis membrane filter removes greater than 90% of inorganic ions, hardness, and dissolved solids, as well as other particles and microorganisms.

If deionized water is required, the WPS-1200-DI system incorporates extra filtration to produce Type II deionized water (>1 megohm•cm resistivity) for clean steam or other high purity applications.

WPS-1200 Benefits

- Improves equipment life and performance by removing at least 90% of all dissolved solids that cause scale build-up.
- Designed specifically for autoclaves and glassware washers.
- Reduction of scale build up translates to increased uptime as well as reduced maintenance and energy costs.
- Designed to be very low maintenance and easy to use with a low cost of ownership.
- System includes a pressurized storage tank.
- Tank is floor standing and can be mounted remotely.
- 100% seamless composite construction with durable, high density polyethylene inner liner.

WPS-1200 Features

- Filters have a special 1/4 turn quick change design that allows simple, quick and clean filter replacement. Filters can be easily changed in minutes without the use of tools or the need for a service call.
- Flexible design allows system to be installed integral to the sterilizer¹ or on a nearby wall.
- Pressurized storage allows purified water to be used for general lab use.
- Environmentally safe; 100% lead-free.
- Color indicator on DI filter signals when to change the filter.

¹ Increases the footprint of the sterilizer.

Why Purify Your Water?

Many steam sterilizers use an electric steam generator to create the required steam. When the steam is created, salts and minerals from the feed water are left behind. If hard tap water is used to generate the steam, over time these mineral deposits will accumulate and coat the generator heating elements, continually decreasing the functionality of the generator until it stops working. Consolidated's Water Purification Systems will remove these contaminants and help ensure maximum uptime.

Product Summary

Specifications	Model WPS-1200-RO	Model WPS-1200-DI
Production Water Quality	Type III	Type II (DI >1 megohm•cm)
Application	For steam sterilizers with carbon steel steam generators	For steam sterilizers with stainless steel steam generators (i.e. clean steam)
Sterilizer Size (volumetric)	up to 42.4 cu.ft. 1200 liters	up to 42.4 cu.ft. 1200 liters



Model WPS-1200-RO System with RO module and 11 gallon tank shown.

**Quick, Clean, Hassle-Free
Filter Replacement.**
NO Service Calls,
NO Tools!



Featuring Green Technology

Specifications	Model WPS-1200-RO	Model WPS-1200-DI
Dimensions	38" H x 20.5" W x 8" D 96.5 x 52.1 x 20.3 cm	38" H x 30.5" W x 8" D 96.5 x 77.5 x 20.3 cm
Required Clearance	Add 6" (15.25 cm) on all sides for cover removal and service access.	
Operating Weight (not including storage tank)	40 lbs 18 kg	65 lbs 30 kg
Daily Production Rate*	350 gpd / 14.5 gph nominal 1,325 lpd / 55.2 lph	350 gpd / 14.5 gph nominal 1,325 lpd / 55.2 lph
Sterilizer Size (volumetric)	up to 42.4 cu.ft. 1200 liters	up to 42.4 cu.ft. 1200 liters
Tank		
Tank Dimensions	37 – 57" H x 16" D 94 – 144.8 cm x 40.6 cm	
Tank Weight (fully loaded)	110 – 210 lbs 50 – 95 kg	
Tank Volume	11 – 22 gallons 42 – 83 liters	
Water		
Facility Supplied Connection	1/2" NPT Ball Valve; 25 – 80 PSIG Dynamic; 1 GPM; 40-100°F (4.4-37.8°C)	
Drain Connection	1/4" (.64 cm) OD tube connection; Floor drain or Floor Sink, Gravity Flow	
Electrical		
115VAC/60Hz; NEMA 5-15P Plug Branch Circuit Protection 15 or 20 Amp Ground Fault		

*Feed water temperature, feed water quality and age of filters affects production rate. Incoming water must meet water quality requirements.

Water Feed Requirements, Carbon-Steel Steam Generators

The table below shows the recommended feed water requirements for a standard steel boiler. If water quality fails to meet maximum condition requirements listed below, then your water will require purification by the WPS-1200-RO. If you are unsure of your facility's water quality, please contact Consolidated to arrange for an initial assessment.

Characteristic	Recommended Condition	Maximum Condition
Temperature	As Supplied	140° F (60° C)
Total Hardness	0–17 mg/L	85 mg/L
Alkalinity	50–180 mg/L	350 mg/L
Total Dissolved Solids	0–150 mg/L	250 mg/L
pH	7.5–8.5	7.5–9.0
Total Silica	0.1–1.0 mg/L	2.5 mg/L
Resistivity	2,000–6,000 megohm•cm	26,000 megohm•cm*

* If water supplied is greater than 26,000 megohm•cm contact Consolidated for recommendation.

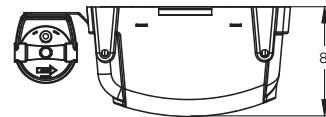
Water Feed Requirements, Stainless Steel Generators

Stainless-steel generators require deionized water >1 megohm•cm.

WPS-1200 Maintenance

- Proper pre-treatment is required to control scale formation and/or fouling (recommended preventive maintenance involves pre-treatment filter cartridge changes every 6 months²).
- Change RO cartridges regularly (recommended 2-3 year preventive maintenance program²).

² Feed water quality and usage affects filter life and replacement frequency.



NOTE:
Typical dimensions for the WPS-1200-RO.
Extra filter for the WPS-1200-DI Not shown.

