

DID YOU KNOW?

NO: 14

August 3, 2009

WATER CONSERVATION

Water is a critical precious resource. Even though the earth is mostly comprised of water, less than 2 percent is fresh water. According to the World Water Council, the key to saving the limited water supply is **reducing waste**.

PRIMUS PRI-Saver Water Conservation System on our AA, A and B sizes can reduce water consumption up to 97% with each sterilizer cycle!

Water is only used during exhaust from operating pressure to atmospheric pressure to cool effluent to drain. Sterilizers in the AA, A and B sizes traditionally use a water ejector system to produce vacuum. Seven to eight gallons of water per minute is required to do this. This exhaust phase could last up to thirty-five minutes when drying wrapped goods. The PRI-Saver Water Conservation System will save a minimum of 90% of this water. See the attached testing data performed on an A model for savings ranging from 92% to 97%.

Description of Operation

The PRI-Saver system is shipped without water. Upon commissioning the sterilizer, the reservoir is filled by pressing the fill button on the side of the sterilizer. Once the reservoir is filled, this procedure is not required to be repeated. When the sterilizer exhausts, the boost pump activates. The boost pump pumps water from the reservoir tank, through the ejector and back to tank. This action creates suction on the sterilizer exhaust line and pulls air, condensate, and steam from the chamber and re-circulates water to the reservoir tank. When the temperature exceeds 110 degrees F in the reservoir tank, the water solenoid energizes and water from your source (well, city, etc.) enters the tank and cools the system. An overflow will allow excess water to flow to waste.

System Description

The PRI-Saver Water Conservation System consists of a reservoir tank, pressure pump, water make-up system, and electrical controls. The pump takes water from the reservoir tank and forces it through the water ejector to create vacuum and then returns the spent water to the tank for reuse. As steam from the chamber is condensed, this water warms. When the water reaches 110 degrees F, water from your source is added to the tank for cooling. All excess water is discharged through an overflow port to drain. Utilization of the water recirculation conservation system will lower water usage except for cooling effluent.

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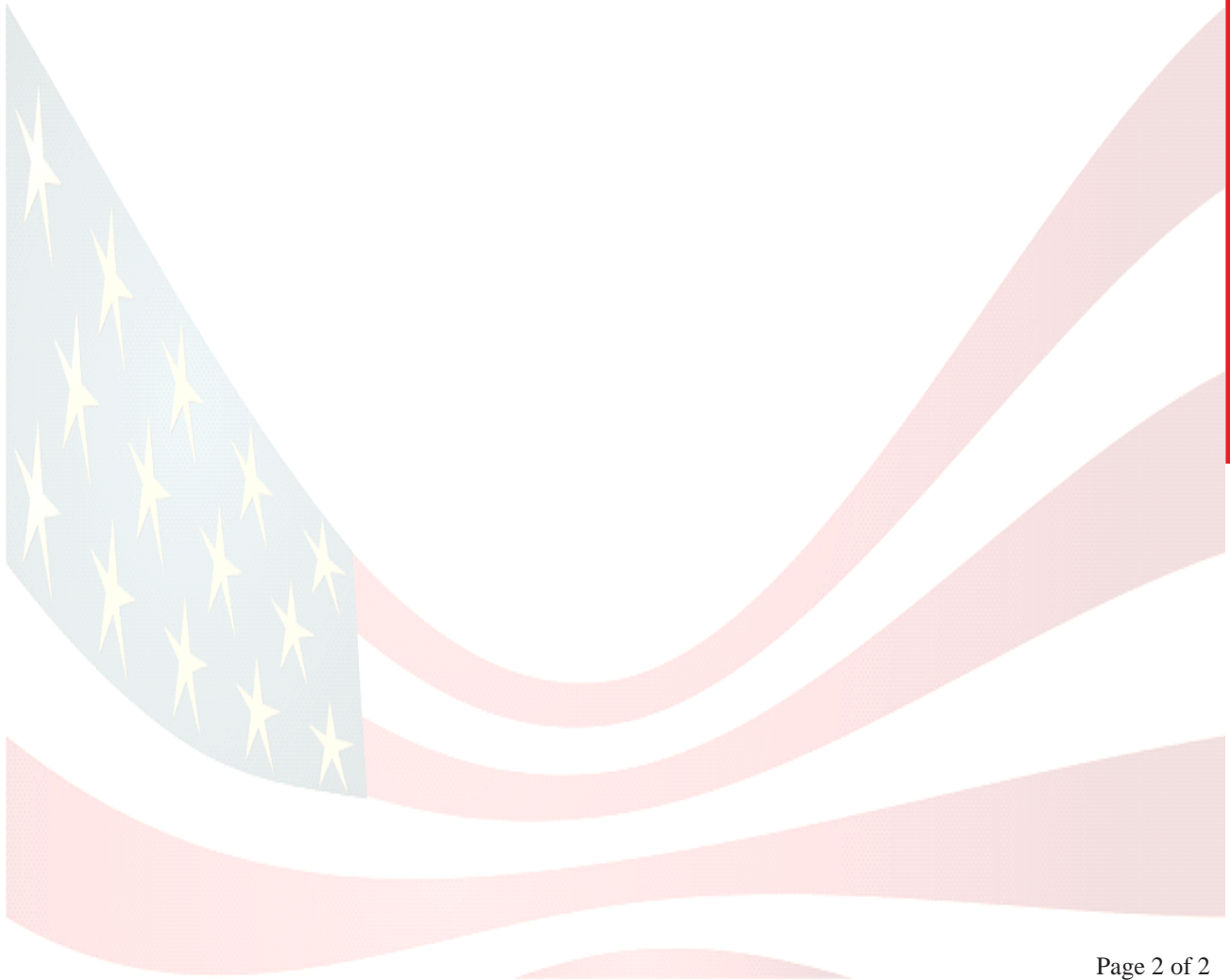
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WATER CONSERVATION (continued)

PRI-Saver Benefits

- Water conservation of up to 97% per sterilizer cycle
- Reduced water consumption means immediate cost savings on water rates
- Meets the requirements for “Green” initiatives
- Qualifies for rebates and incentives at local and state levels
- Environmentally friendly
- Integral design for maximum space utilization
- Retro fit kits available for existing sterilizers
- Made in USA

Contact your PRIMUS Sales Associate today for more details!



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