

# ENVIROVAC

## ***R-V Files for Patent***

On May 23, 2008, R-V filed a U.S. and Canadian patent application for some new design features on our Enviro-Vac unit. This device is part of our sterilizer systems, it uses tap water, a tank, a venture ejector, and a booster pump to create a vacuum, condense steam, and cool drain water leaving the sterilizer. The patentability of the new design features are based around their ability to minimize the use of tap water needed to perform these functions.

In the conventional vacuum system for a sterilizer, large volumes of water are consumed to create the required vacuum and cool water going to the facility drain. Steam and water leave the sterilizer at around 240-275 degrees F. The drain water must

be reduced in temperature to 140 degrees F before being released to a building drain in order to comply with plumbing codes. The same water is also used

to develop a vacuum through the pump and venture ejector.

The conventional system uses around 213 gallons of water per cycle to perform these tasks. Our team developed some new piping schemes which allow the new unit to consume as little as 20 gallons per cycle.

This additional water savings is

another small way we can differentiate our system from our competitors.

Thanks goes to these contributors, Adam Brugnoli, Todd Becker, Alan Cinquergrana, Phil DeMarra, Jim Dillow, Dan Gonzalez, and Ken Brownlow.



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