

Harvey PVDry Table Top Steam Sterilizer (Project 02-29) (1/05)

For **UPDATE**, [click here](#).

The Harvey PVDry is a fully-automated, microprocessor-controlled, table-top steam sterilizer with a 10-inch diameter by 15.5-inch deep, round, stainless-steel chamber. Barnstead International claims that by using pre- and post-vacuum technology instruments come out completely dry in 35 minutes. Features include a front control panel with a large easy-to-read LCD display and five factory-preset cycles, which can be adjusted. Upon activation of the start button the patented automatic door seals shut and the sterilization process begins. When the sterilization cycle is complete the chamber door opens automatically. The PVDry is said to be virtually maintenance free and uses a patented built-in non-recirculation system that supplies fresh distilled or deionized water with every cycle. Used water collects in a separate waste-water tank and is drained from the sterilizer with quick-disconnect tubing. The PVDry can be connected to a printer or data port to provide validation and record keeping of sterilization cycles. Standard accessories include a rack and two trays. Optional accessories include a printer, pouch rack, a digital pyrometer, and a temperature-verification probe. The sterilizer is available in nine different models. Electrical requirements range from 115-230 VAC (domestic) to 220-240 VAC (international). Dimensions are 19" W x 23" D x 15.5" H with an operational weight of 115 lbs. A two-year warranty is standard.



Manufacturer:

Barnstead International
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Dubuque, Iowa 52001
(800) 553-0039
(563) 556-2241
(563) 589-0516 FAX
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Suggested Retail Price:

\$6885.00 Harvey PVDry Model #ST127325
\$7260.00 Harvey PVDry with Optional Printer

Government Price:

\$3442.50 Harvey PVDry Model #ST127325
\$3667.50 Harvey PVDry with Optional Printer

ADVANTAGES:

- + Available in 115-240 VAC configurations
- + Functioned flawlessly during evaluation
- + Produced sterile-dry instruments
- + Easy to set up and operate
- + Minimal operator maintenance required
- + Chamber door automatically opens and closes with each cycle
- + Easy to read LCD display
- + Touch-pad control panel with five factory preset cycles enhances operability
- + "Special" cycle for handpiece sterilization
- + Manual programming capabilities
- + Quick disconnect for waste-water removal
- + Optional printer documents sterilization parameters
- + Detailed, easy to read operating manual

DISADVANTAGES:

- Requires manufacturer installed medical grade power supply upgrade to ensure passage of NFPA 99 electrical safety requirements For **UPDATE**, [click here](#).
- Requires frequent water-reservoir filling and waste-water removal

SUMMARY AND CONCLUSIONS:

The Harvey PVDry table-top steam sterilizer features pre-and post-vacuum technology that aids the sterilization and drying process. This feature is said to eliminate wet packs, the most common complaint with table-top sterilizers. Operationally, the Harvey PVDry performed flawlessly producing sterile/dry instruments. Unwrapped cycles were completed in 35 minutes per manufacturers claim, however federal dental facilities typically use wrapped cycles, which generally take 51-56 minutes to complete. The Harvey PVDry met all DIS sterilizer checklist-testing requirements, however it was not without its shortcomings. The laboratory-tested model failed the NFPA 99 medical-grade specification-testing requirements and required a manufacturer-installed, medical-grade power-supply to pass. Federal service customers will need to request this upgrade (at no additional charge) when ordering. Overall a majority of evaluators appreciated it's many functions. The touch-pad control panel is convenient and the large LCD displays sterilization status in real time. The five preset cycles enhanced operability, manual programming is versatile, and operator maintenance is minimal. A majority of evaluators stated they would purchase it for use in their clinic. The **Harvey PVDry** is rated **Acceptable** for use by the federal dental services.

UPDATE

In 2006, Barnstead International introduced the PVdry2 tabletop steam sterilizer. There is no change in pricing (see above). The PVdry2 is Barnstead's second-generation class B pre- and post-vacuum steam sterilizer. Features include a front control panel with a large easy to read LCD display and four standard preset cycles (Unwrapped, Wrapped, Towel Packs, and Handpiece). There are two new buttons for maintenance cycles on the front of the unit-Rinse (Flush) and Bowie Dick (Helix). The medical grade power supply is standard equipment. According to Barnstead International, the PVdry2 provides users with several significant improvements compared to their original PVdry tabletop steam sterilizer.

- The CycleStor™ USB Flash Drive allows the user to store cycle data and download critical diagnostic information using a USB thumb drive.
- A new multi-purpose tray and cassette rack is included with every unit and three trays.
- A new waste tank design reduces steam output.
- The new vacuum pump is 30% quieter.
- The Harvey DI+ water automatically turns off the water system if the user does not change the water purification cartridge.