



ARJO PURE

Water-based reprocessing for HoverMatts

The first vendor with the ability to reprocess single-patient-use HoverMatts

One form of high-level disinfection (HLD) is pasteurization*, which uses hot water to clean medical devices of bacteria, viruses, and other microbes. The nontoxic process is a safe and sustainable method for disinfection. Because we use the HLD pasteurization process and not chemicals to disinfect, most devices can be safely reused up to 10 times, which may save on treatment costs.¹⁻⁴

Benefits of HLD pasteurization

Safety	Efficacy	Longevity	Sustainability	Savings
Our top priority is to provide a safe reprocessing solution for patients, clinicians, and the planet. Arjo Pure™ utilizes HLD pasteurization as a nontoxic alternative to carcinogenic chemicals that could harm patients and/or the environment.	Since the definitive Nelson and Ryan study in 1971, scientific research has shown HLD pasteurization appears to be an effective, less expensive alternative to chemical cleaning methods. ⁵	The FDA has recognized that devices reprocessed using HLD pasteurization could potentially be safely reused multiple times. ¹⁻⁴	Reprocessing devices reduces medical waste disposal. With HLD pasteurization, some devices can be reused up to 10 times. ¹⁻⁴	The process keeps noninvasive devices in circulation longer, which reduces facility disposal costs.

* **Pasteurization:** Pasteurization is not a sterilization process; its purpose is to destroy all pathogenic microorganisms. However, pasteurization does not destroy bacterial spores. The time-temperature relation for hot-water pasteurization is generally -70°C (158°F) for 30 minutes. The water temperature and time should be monitored as part of a quality-assurance program. Pasteurization of respiratory therapy and anesthesia equipment is a recognized alternative to chemical disinfection. The efficacy of this process has been tested using an inoculum that the authors believed might simulate contamination by an infected patient. Use of a large inoculum (107) of *P. aeruginosa* or *Acinetobacter calcoaceticus* in sets of respiratory tubing before processing demonstrated that machine-assisted chemical processing was more efficient than machine-assisted pasteurization with a disinfection failure rate of 6% and 83%, respectively. Other investigators found hot water disinfection to be effective (inactivation factor > 5 log10) against multiple bacteria, including multidrug-resistant bacteria, for disinfecting reusable anesthesia or respiratory therapy equipment.



THE ARJO PURE REPROCESSING CYCLE



1. FACILITY
EXTRACTION



2. ARRIVAL AT
REPROCESSOR



3. BARCODING
SYSTEM



4. DISINFECTION
PROCESS



5. QUALITY
CHECK



6. PACKAGING
AND DELIVERY

Arjo Pure provides our clients with **excellent service**. Through our domestic service footprint, Arjo Pure offers a variety of service options for hospitals to consider when implementing a reprocessing program for noninvasive medical devices.

Please contact your local Arjo sales representative to discuss the details of our full-service and self-service solutions.

REFERENCES:

1. Office of Device Evaluation, US Food and Drug Administration. Section 510(k) Summary No. K031559. November 12, 2003. 2. Office of Device Evaluation, US Food and Drug Administration. Section 510(k) Summary No. K051227. April 6, 2006. 3. Office of Device Evaluation, US Food and Drug Administration. Section 510(k) Summary No. K093658. January 14, 2010. 4. Office of Device Evaluation, US Food and Drug Administration. Section 510(k) Summary No. K121145. June 12, 2012. 5. Nelson EJ, Ryan KJ. A new use for pasteurization: disinfection of inhalation therapy equipment. *Respir Care*. 1971;16(3):97-103.

At Arjo, we are committed to improving the everyday lives of people affected by reduced mobility and age-related health challenges. With products and solutions that ensure ergonomic patient handling, personal hygiene, disinfection, diagnostics, and the effective prevention of pressure injuries and venous thromboembolism, we help professionals across care environments to continually raise the standard of safe and dignified care. Everything we do, we do with people in mind. www.arjo.com

Only Arjo designed parts, which are designed specifically for the purpose, should be used on the equipment and products supplied by Arjo. As our policy is one of continuous development, we reserve the right to modify designs and specifications without prior notice.

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