

STERILIZERS



Since 1971 Melco Steel, Inc. has been a leader in the engineering, design and fabrication of autoclave systems. Melco Steel autoclaves, pressure vessels and other related products are designed and manufactured in strict accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. The breech lock *Harris* Quick Opening Door is custom designed and fabricated for use on Melco 's own autoclaves and pressure vessels and for use by other pressure vessel manufacturers.

Melco Steel, Inc. is proud of its ability to design and fabricate complete sterilizer systems that conform to the exact requirements of the end user. Each system is unique, with special attention paid in the preliminary design stages to assure complete satisfaction of operation and maintainability. While each system is custom built, we draw upon many years of experience and have been able to refine our standard design concepts to consistently provide a reliable and precision piece of equipment.

- Complete System Design and Installation
- Large, High Production Units to Lab Size
- Direct Steam Injection
- Vacuum and Traditional Cycles
- Many Standard Designs Available
- Custom Designs to Suit Your Needs
- Automated or Economical Manual Controls
- Made in USA Since 1971

A highly desirable addition to the sterilizer system is the addition of vacuum cycles. When incorporated into the design, the vacuum system adds a vacuum cycle at the beginning and end of the sterilization cycle. The initial vacuum cycle, or "pre-vacuum", is provided to remove all air prior to filling with steam. Since air is such a good insulator this is beneficial and produces quicker and more thorough penetration of the steam. After the pre-vacuum cycle, steam is back-filled into the chamber and the cycle proceeds as usual. Upon completion of the steam exhausting, or completion of the traditional sterilizing cycle, a "post-vacuum" cycle is initiated. This cycle is used to remove moisture from the waste products and odors from the chamber.



MELCO STEEL, Inc.

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