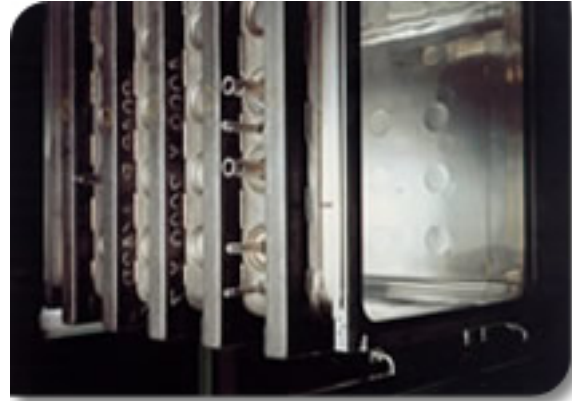
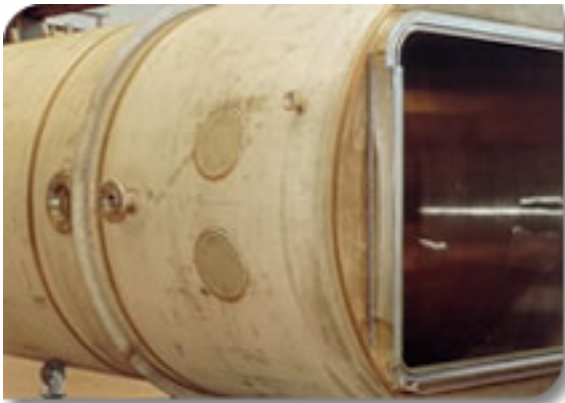

Pressure Vessels Chambers

The chamber is a particularly critical element in moist-heat sterilizers (autoclaves), since it is subjected to cyclic pressure and temperature variations which generate dangerous fatigue of the structure over time.

After introducing in the early 1980s the first CAD workstations equipped with complex finite-element analysis programs, Fedegari was the first manufacturer of these machines to

devise an absolutely original construction model, designed to avoid generating high tensions in any point of the structure. Depending on the type of sterilizer, the chambers can have a quadrangular or circular cross-section. They are made of AISI 316Ti steel with an internal mirror-finish obtained by mechanical polishing. They can be equipped with an external chamber to allow process temperature control and



with different reinforcements according to the cross-section of the chamber.

The external reinforcements never make direct contact with any process fluid. The outside of the chamber is thermally insulated and contained along its perimeter by an aluminum sheet. According to the requirements, the chamber are designed and certified according to the applicable local standards.

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