



PHARMACEUTICAL TANKS, TRAY DRYERS AND PROCESS FILTERS

TANKS

Often in Pharmaceutical processing, tank charging is required under an aseptic environment or for containment of potent powders. Walker Barrier Systems in the past has provided isolators for customer's process tanks to achieve the required environment. Walker Barrier Systems can now provide high quality, stainless steel tanks either as part of an isolator project or as a stand alone unit.

EXPERIENCE AND CAPABILITIES

Our leadership in the design and manufacture of ASME vessels and stainless steel mixing tanks for the pharmaceutical and biotech industries requires putting the maximum priority on quality and integrity. Walker provides the highest standard factory acceptance testing, including spray ball testing. We include full documentation packages with weld inspection reports and RA mapping. We work closely with suppliers to develop features and options specifically designed to further enhance the sophisticated sanitary design of our Bio/Pharm vessels.





Stainless Steel Fabrication

We specialize in building custom stainless steel tanks and vessels according to customer specifications and performance requirements. We also build to print directly from a customer design.

- Walker fabricates all pharmaceutical tanks and vessels to the principles of the ASME-BPE standard. We can meet your needs for "U" stamped vessels and "R" stamped vessels
- 5 liter to 7,000 liter vessels
- 12 gauge to 0.5" thickness
- Heat transfer solutions – dimpled, half pipe, conventional jacket
- We fabricate using any stainless grade 304, 316, 304L, 316L, 317L, 2205 and work with higher alloys such as AL6XN and Hastalloy for its corrosion resistance
- Electropolishing when required as part of the finishing process

TRAY DRYERS AND FILTER VESSELS

Walker Barrier Systems also provides small drying ovens used when drying wet cake product into final dry powder form. Filter vessels and solvent recovery tanks are also provided. A typical process involves creating an API slurry within a remote reactor; the unit is designed to filter crystals from the API liquid into wet-cake form. The cake is then placed on trays and dried in the integrated Tray Dryer. Once dried, the powder is then weighed on the appropriate integrated balance and placed into bags. This fully packaged system is provided with solvent recovery and mother liquor tanks for the filtration process as well as an integrated vacuum system. The tray dryer has heated shelving allowing consistent drying as well as a packaged temperature controlled unit for total system control and flexibility. For high containment applications, the filter vessel and the tray dryer are integrated with a Walker Barrier Systems isolator.



Cleaning

The efficiency and effectiveness of pharmaceuticals are detrimentally affected by even the minutest of contaminants which is why Walker designs its vessels for full drainability and easy washout cleanability. Walker custom drills spray balls for the most hard to access surfaces. We do spray ball testing and conduct a riboflavin test to confirm that all interior surfaces of the vessel have been thoroughly wetted by the CIP procedure.



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