

### Palletank® Mixing System

Mixing is required for many stages of biopharmaceutical processing. Being able to mix in a pre-assembled, pre-sterilized single-use bag offers the following benefits :

- No Cross-Contamination
- No CIP/SIP procedure using chemicals, clean steam and water
- No maintenance as no equipment required
- Reduces the amount of time associated with writing User requirement specifications and validation plans as well as minimizing the time for on site validation after delivery of the assembled mixing system



**The Palletank® Aseptic Mixing System has been optimized for efficient, thorough aseptic mixing. It is specifically designed for Sartorius Stedim Biotech's Palletank® bags in volumes of 100L, 200L and 500L with Palletank volumes offered at 200L and 500L.**



Pre-connected mixing loops

The Palletank® bag comes configured with one or two pre-connected mixing loops. No additional connections are required, thus preventing any risk of contamination due to operator manipulation. The large loop diameter allows for high flow rates and maximizes mixing intensity.



Palletank® integrated channels for tubin passage

The patented, integrated Palletank® door channels for tubing passage ease and speed-up overall system installation. These channels also facilitate installation of large filters or RAFT beta port assemblies, which can come pre-connected onto the bag system. Process security is increased: tubing is protected from the outside environment and vice versa.

The Palletank® aseptic mixing system can be provided as two independent units: a mobile Palletank® and a stationary mixing frame or as a single unit with integrated weighing and mixing functionalities.

### Options:

Different options for the Palletank® aseptic mixing system can be incorporated based on process requirements and application needs:

### *Temperature Controlled Palletank®*

As an option, the Palletank® aseptic mixing system can be built with Sartorius Stedim Biotech's Temperature Controlled Palletank®.

The Temperature Controlled Palletank® is built with insulated walls that surround a jacketed heat exchange system. Fluid circulates within the jacket ensuring that the fluid contained in the Palletank® Bag reaches the desired temperature.

Product technical feasibility for heating/cooling or temperature maintenance

### *Built-in loadcells, control panel and printer*

The Aseptic Mixing System can also be configured to fulfill weight-measurement functions.

The weighing option is comprised of built-in loadcells, control panel and printer. 4 loadcells are built-in the Palletank® feet. They allow for accurate weight measurement and controlled fluid addition. The control panel plugs into the loadcells. The screen display gives the actual weight and includes the print command. Printing facilitates documentation including weight, batch number, and operator signature.

