

Advanced Powder Transfer for Media and Buffer Preparation and Solids Additions

OVERVIEW

ILC Dover has developed a new powder transfer process to solve issues related to contamination and reduce the fill time of each powder bag. The EZ BioPac™ is proven to reduce contamination that typically occurs during filling a powder transfer bag or, more importantly, when it is discharged at the reactor or mix tank.

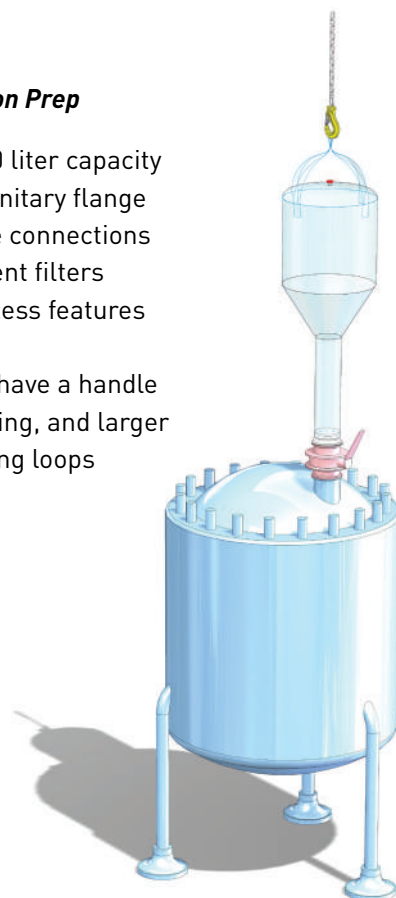
BENEFITS

- Open fill design provides an easy target for manual filling without spillage
- Significantly less time required per dispense cycle
- Minimizes cleaning with fold over neck
- Additional parts eliminated
- Self standing and self supporting
- Custom design to meet specific process requirements
- ArmorFlex® 114 film is the standard material for the product contact area. This unique antistatic film meets FDA, USP and EU regulatory compliance standards

FEATURES

Bioprocess Solution Prep

- 1 liter thru 100 liter capacity
- 1.5" thru 8" sanitary flange reactor charge connections
- Rinse ports, vent filters and other process features available
- Smaller sizes have a handle for manual lifting, and larger sizes have lifting loops



EZ BioPac™ CONFIGURATION OPTIONS

Sanitary Flange Sizes Available

	1.5"	2"	3"	4"	DN 100	DN 150	6"	8"
EZ BioPac™ Volume (liters)								
1	X	X	X	X				
5	X	X	X	X				
10	X	X	X	X	X			
25		X	X	X	X	X	X	
50				X	X	X	X	
100						X	X	X

Note: "X" denotes most common selections. Other combinations available upon request.

SYSTEM FUNCTIONAL DESCRIPTION

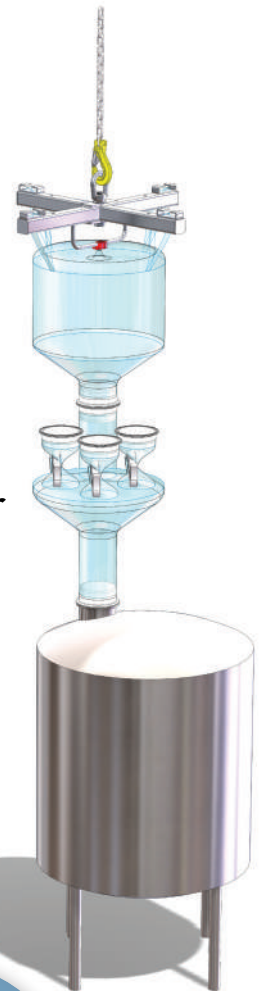
The EZ BioPac™ system was developed as a unique disposable system to manually fill powders and then discharge while maintaining GMP conditions. The system includes a strong, lightweight non-metallic frame that is easy to use and minimizes the load on the weight scale to enhance accuracy. The empty EZ BioPac™ is placed in the frame and becomes self supporting with a wide open top. The unique design includes a protective outer skirt to keep the EZ BioPac™ clean from powder that can cause cross contamination. With the EZ BioPac™ system a powder charge can be filled quickly, the weight can be adjusted easily in the case of an overfill or underfill, and the unit is securely closed and ready for connection to a vessel for discharge.

ARMORFLEX® FILMS

ArmorFlex® 114 film delivers permanent static dissipative properties while meeting FDA and 2002/72/EC requirements for food contact and EP 3.1.3 test conditions.

- Complies with FDA 21 CFR
- Passes USP <661> Physicochemical Tests for Plastics
- Passes USP <88> Class VI (7 day implant)
- Passes USP <87> biological reactivity, in vitro
- Permanent antistat replaces migrating additives
- Passes Chilworth incendivity tests
- Tested for solvent resistance
- DMF filed with FDA
- Anti static film with a 5 year shelf life

Multiport Powder Addition for Buffer Prep



Contained Discharge to Vessel



EZ BioPac™ in filling stand being charged with powder. The non-metallic filling stand is designed to provide an easy fill and adjustment for accurate weighing.



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