

RxR-36

Row-by-Row Freeze Dryer Loader



The high-speed SP Hull Row-by-Row Loader (RxR) is a unique freeze dryer loading system for full line vial applications requiring higher speeds and capable of accommodating loading speeds up to 400 vials per minute.

Specifications	
Dimensions	2178 mm x 1138 mm x 2575 mm
Working Height	851 mm x 978 mm (33.5 in x 38.5 in)
PLC	Allen Bradley CompactLogix
HMI	Allen Bradley PanelView+ 7
Machine Frame	304 stainless steel
Doors / Windows	Provided by RABs/isolator manufacturer
Lower Frame	AISI-304 stainless steel
Isolator and Deck Plate	AISI-316 stainless steel
In-feed and Out-feed	Conveyor
Product Contact Parts	AISI-316 stainless steel and Delrin
Vial Diameter	16 -58 mm (2 - 100 mL vials)
Weight Without Isolator	Approximately 910 kg (2000 lbs)
Throughput	Up to 400 16 mm diameter containers/min

Utility Requirement

208 volt, three phase, 60 Hz, 30 amps \pm 10%

Additional Options

Change Parts

Exit Opposite Side Of The Inlet

Preparation For Isolation

Recognition Of Rejected Vial Location

Prearrangement For Viable Particulate Monitoring

Prearrangement For Non-Viable Particulate Monitoring

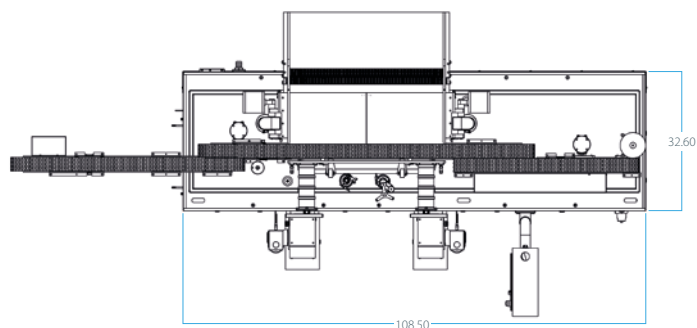
High-Speed Single Liner

Tempris* Loading System

UL Approved Electrical Cabinet

21 CFR 11 Package

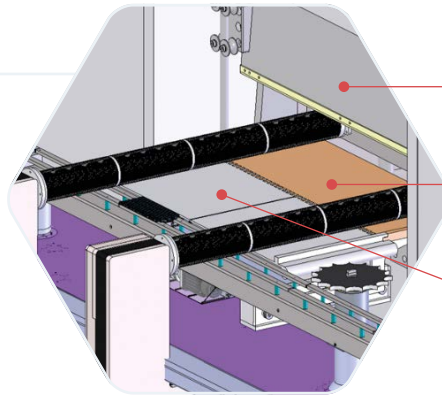
Validation Documentation



Narrow profile view of the SP Hull RxR-36 Freeze Dryer Loading System; ideal for RABs and isolator applications.

1

During the loading process, the bridge plate extends through the slot door and mates up with the freeze dryer shelf. The drawbridge transfer plate will lower the bridge gap between the loading conveyor and the bridge plate.



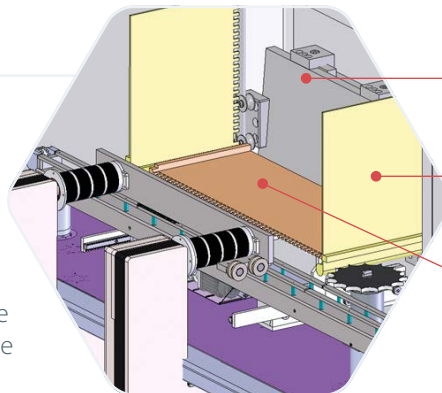
Subdoor (open)

Sliding Bridge Plate (extended)

Drawbridge Transfer Plate (down)

2

When the freeze dryer door is closed, the drawbridge transfer plates are hinged upwards to allow the retraction of the bridge plate without moving into the gray space. Transfer plates and bridge plate can move during CIP and the decontamination cycle to optimize effectiveness.



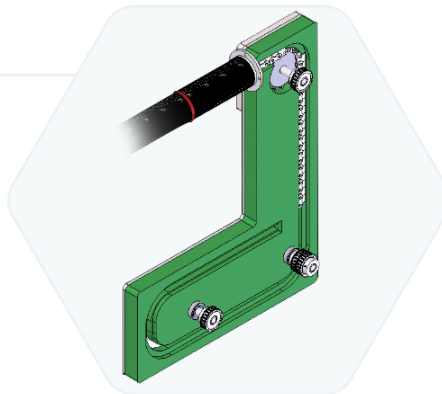
Subdoor (closed)

Drawbridge Transfer Plate (up)

Sliding Bridge Plate (back)

3

Pusher chain wraps underneath the loading platform to minimize cleanroom obstruction.



4

Vials will be singulated as they exit the freeze dryer loading/unloading system using multiple speed conveyors.

