

## SALS-30

## Semi-Automatic Freeze Dryer Loader

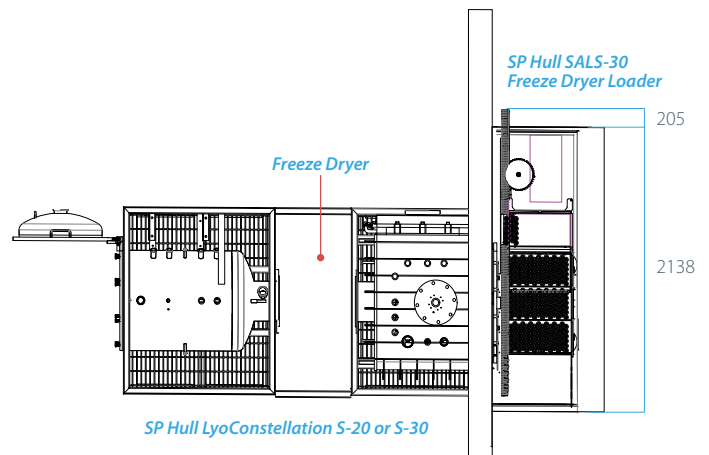
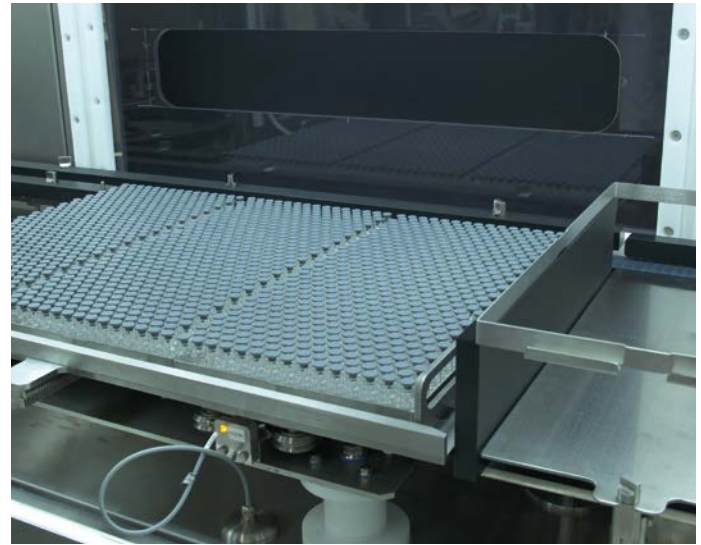


The SP Hull Semi-Automatic Loader (SALS-30) is specifically designed with a narrow profile to replace manual freeze dryer loading for smaller batch applications (loading speeds up to 70 vials/minute).

Specifications	
Dimensions	2343 mm x 838 mm x 2138 mm
Working Height	851 mm x 978 mm (33.5 in x 38.5 in)
Loading Height	939 mm x 1092 mm (37 in x 43 in)
HMI/PLC	Allen Bradley PanelView+ 7
Machine Frame	304 stainless steel
Doors / Windows	Provided by RABs/isolator manufacturer
Lower Frame	AISI-304 stainless steel
Isolator & Deck Plate	AISI-316 stainless steel
In-feed	Conveyor
Vial Diameter	16 - 52 mm (2 - 100cc vials)
Weight Without Isolator	Approx 360 kg (800 lbs)
Throughput	Up to 70 vials/min (dependent on manipulation of frames)

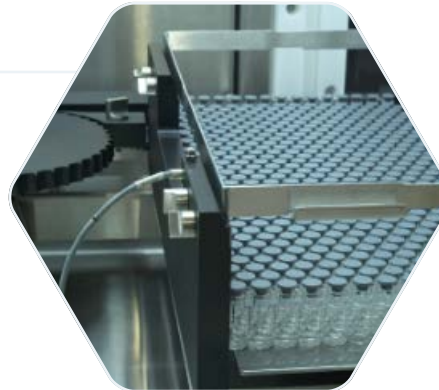
Utility Requirement
208 volt, three phase, 60 Hz, 30 amps

Additional Options
Change Parts
Exit Opposite Side Of The Inlet
Prearrangement For Non-Viable Particulate Monitoring
Prearrangement For Viable Particulate Monitoring
Preparation For Isolation
UI Approved Electrical Cabinet
21 CFR 11 Package
Validation Documentation



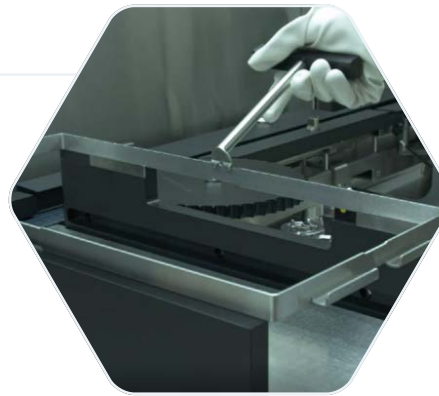
1

A star wheel counter and back pusher collates vials in a nested configuration.



2

The operator will set a frame on top of the frame holder. Once the collation of vials is complete, the operator will then press a foot pedal to lower this frame over the group of vials.



3

An elevator will raise the frame of vials and move them forward to the loading position. The process will be reversed for unloading.



4

A bypass conveyor will allow liquid products to bypass the loading system and go straight to capping.

