# Depyrogenation Tunnel PST-45/380

SP i-Dositecno®

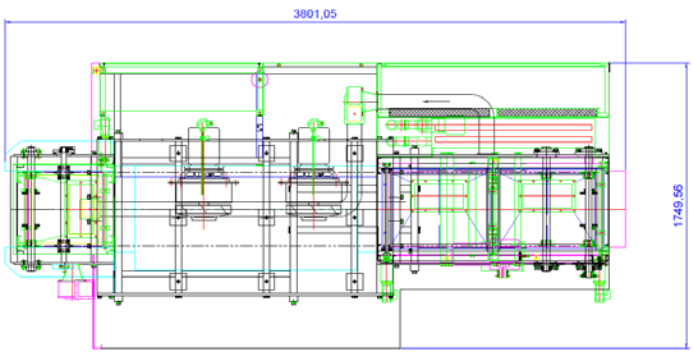
| Specifications | |
|---|---|
| Dimensions (L x W x H) | 3800 x 1750 x 2400 mm |
| Working Height | 851 mm x 978 mm (33.5 in x 38.5 in) |
| HMI | Allen Bradley |
| PLC | Allen-Bradley CompactLogix |
| Belt | 450 mm wide, 304 stainless steel |
| Belt Drive | Frequency controlled AC-motor |
| DOP In All Three Chambers | Included |
| Machine Frame | AISI-304 stainless steel |
| Panels & Covers | AISI-304 stainless steel |
| Electrical Cabinet | Enclosed in machine frame |
| HEPA Filter In-feed Chamber | 457 x 457 x 150 mm |
| HEPA Filter Sterilizing Chamber (x2) | 457 x 610 x 150 mm |
| HEPA Filter Cooling Chamber (x2) | 457 x 610 x 150 mm |
| Heating Elements (x18) | SCR controlled |
| Heating-up Time to 320 °C | Approximately 20 mins |
| Working Temperature | 320 °C (Max 350 °C) |
| Pressure Monitoring | Pressure transmitters |
| Utility Requirement | 70 kVA, 480 volt, three phase, 60 Hz<br>3-4 $m^3$/hr chilled water |
| Weight | Approximately 4000 kg (8800 lbs) |

## Production Range

| Vials | OD | Height | Output |
|---|---|---|---|
| ML | MM | MM | VPM |
| 2 | 16 | 35 | 241 |
| 5 | 20.8 | 41.3 | 142 |
| 10 | 24 | 45 | 131 |
| 30 | 30 | 75 | 68 |
| 50 | 42.5 | 73 | 28 |
| 100 | 52.6 | 94.5 | 17 |
| 250 | 64 | 150 | TBD |
| 500 | 77.5 | 177 | TBD |

## Additional Options

| |
|---|
| Recipe Development For Additional Sizes |
| TP-1 Tunnel Loader |
| Starwheel Tunnel Loader |
| Automatic Last Vial Removal |
| Cooling Water Heat Exchanger |
| Sterilization Of The Cooling Zone |
| In Process Particle Monitoring |
| 21 CFR 11 Package |
| UL Approved Electrical Cabinet |
| Validation Documentation |



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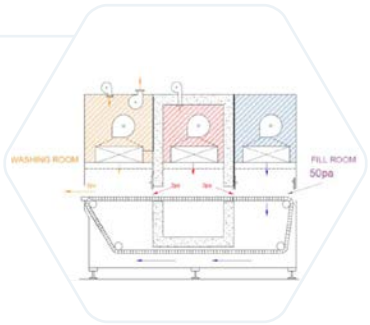
## Overview

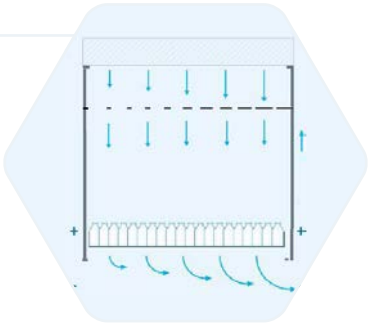
1

Balanced airflow within the hot zone, cool zone and in-feed zone while guaranteeing the thermal process regardless of cleanroom pressure fluctuations up to 50 Pascal.




2

Air flow compensation grids balance air velocity across the width of the vial transfer belt providing optimum temperature control.



3

A specially designed nonviable particulate collector (which is cooled by chilled water) is used in the hot zone. Particle counts are obtained from all three zones to provide "in process" control of the zone classifications.

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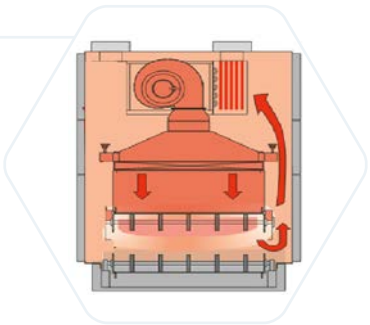
4

An optional pusher is available to assist the last vials of the batch across the exit dead plate. No vials will remain in the tunnel.

5

The cool zone can be sterilized by the heat before starting a new batch



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