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ZELLWAG
PHARMTECH

Z-810 R-2
Filling and Closing Machine

Footprint
2400 x 1200 mm (without infeed and outfeed area)

Output
800 – 5000 vials / h (depending on the filling medium)

Technical data
GMP-Design
3 x 400 VAC, N, PE
5 - 6 bar air
1550 kg
SPS / HMI Siemens / Rockwell
Servo drives Bosch Rexroth / Linmot

Products
Liquids (e.g. parenterals), semi-solids (e.g. gels)

Containers
Syringes, vials, cartridges, always nested

Configurations
Vacuum system
Manual / semi- automatic unpack and loading unit for sterile packed „ready to use“, nested containers
Automatic remove of Tyvek foil and slipsheet
Filling under vacuum (viscous products)
Dosing system according to product
Optional integration of particle and germ measuring system
Upgrade of safety hood with LAF (Laminar Air Flow)
RABS (Restricted Area Barrier System)

Quality assurance
Thanks to the integrated IPC (In Process Control) any container in the nest can be freely chosen for weighing

Features

- Fully automatic filling, closing and handling process
- Clear, well thought-out design concept
- A central robot system with just one coordinate system for filling and closing under vacuum guarantees an automatic and exact calibration of all operating axes

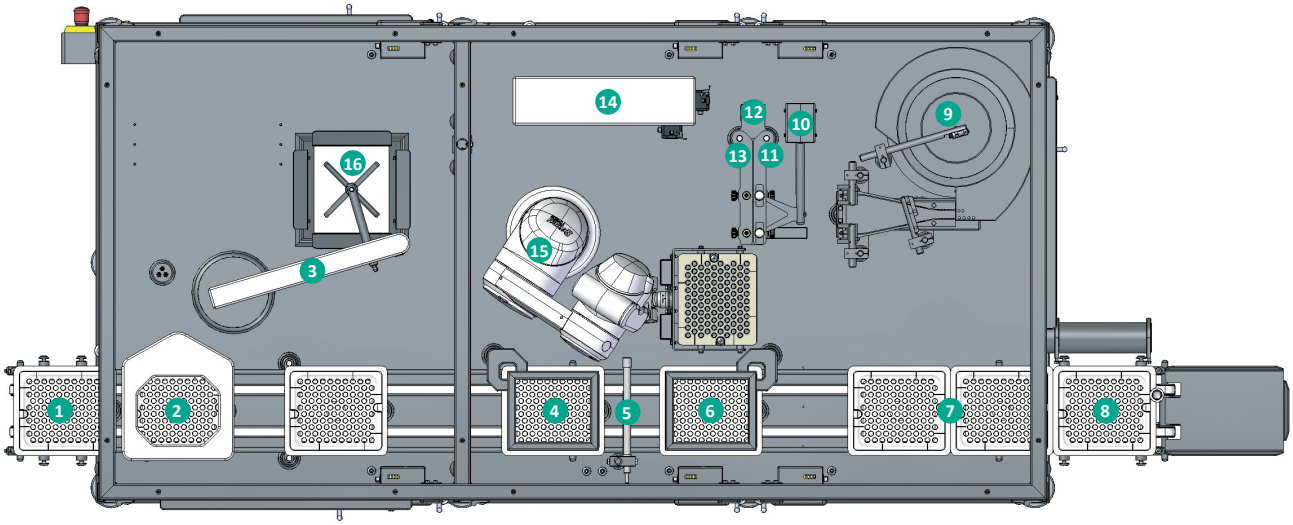
Compliance with legal requirements

- Complies with the requirements of ISO 5 (ISO 6 for clean room)
- By means of the integrated data recording, production data can be exported according to 21 CFR Part 11
- A stainless steel frame grade 304 and parts in contact with product of stainless steel grade 316 ensure cGMP compliance
- IQ-/OQ-validation package

Customer benefits

- Fast and tool-free format and product change
- Easy cleaning thanks to good accessibility to all parts
- Vacuum is 100 % monitored and controlled at each filled unit, up to - 950 mbar relative to atmosphere
- Liquid and viscous products, such as collagen and hyaluronic acid, can be filled
- Low operating and maintenance costs thanks to a compact design and a small footprint
- High flexibility (modular design)
- For clean room applications with Laminar Air Flow (LAF) or in the isolator
- Interfaces to external systems are freely configurable
- Dosing accuracy of +/- 1%

PROCESS (CONFIGURATION EXAMPLE)



1. Product infeed
2. Heating station
3. Handling for the removal of Tyvek foil and slipsheet
4. Pick position
5. Deionization
6. Place position
7. Buffer for finished products
8. Product unload for finished products
9. Vibrating bowl for stoppers
10. Stopper presenting unit
11. Stoppering arm
12. Vacuum unit
13. Filling arm
14. Filling system (pumps)
15. Robot for nest handling
16. Waste box for removed foils and sheets

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