

Asepto-Matic Precision and Automation



FS215 Asepto-Fill® with Conveyor Belt

Delivering Results You Can Trust

In the Food and Beverage Industry, obtaining consistent, aseptic samples from large production batches has long been a challenge. Traditional methods often involve complex procedures that are time-consuming, costly, and prone to variability due to human intervention or contamination risks. These inefficiencies can lead to inconsistent results, compromise product safety, and strain operational resources.

At OMVE, we recognize that manufacturers require smarter, more reliable solutions to tackle the challenges of aseptic filling. That's why we developed the FS215 Asepto-Fill® with Conveyor Belt – a groundbreaking system that transforms aseptic filling through seamless automation and precision.

The FS215 Asepto-Fill® automates every step of the process: continuously feeding disinfected sterile bottles, automatically removing lids, accurately filling bottles, and securely replacing screw caps – all within a sterile, tightly controlled environment.

By significantly reducing manual intervention, this innovative system optimizes efficiency and minimizes labor costs, requiring just one operator to manage the process. The FS215 empowers food innovation to achieve greater production efficiency by delivering unmatched accuracy, consistency, and safety.

Features & Benefits

- Higher Throughput: increased filling capacity supports larger sample sizes.
- Automated Bottle Feeding: Conveyor belt system eliminates manual loading for uninterrupted production.
- Reduced Costs: Automation minimizes labor requirements and operational downtime.
- Sterile Integrity: Positive-pressure isolation chamber combined with validated fogging and SIP systems.
- Consistent Accuracy: Volume dosing guarantees precise filling for every bottle, simplified operation
- Data Traceability: Critical Control Point monitoring with data logging for quality assurance.

Applications

- Dairy Products
- Low-acid Beverages
- Plant-Based Products
- Juices and concentrates
- Tube feeding formulation
- Functional beverages
- Nutraceuticals & Medical Food

Working Principle

Bottles are added to the conveyor belt, which transports the bottles to a pre-entry section for decontamination using fogging system. When disinfection procedure finishes, the disinfected bottles enter FS215 Asepto-Fill® filling chamber in two separate lines. Before filling can take place the cabinet is sterilized by a mist in the filing cabinet. Once sterilized, the bottles are automatically transferred to the filling cabinet, where in sequence the capper will decap the bottle first, then the bottle moves further to be filled up and lastly the tack system will move back to place the cap back again.



Specifications

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| Product code | FS215 Asepto-Fill® with Conveyor Belt |
| Flow direction | Downward |
| Air flow | 0.45m/s |
| Operators required | One |
| Type of decontamination | Automated fogging |
| PET bottle loader w/ automatic decontamination | Yes |
| HEPA-Filter | ULPA U17 in compliance with EN1822 |
| Filling controlled by | Volumetric control |
| Cleaning/ sterilization suitable | CIP/ SIP |
| Capacity | 100 - 200 L/h based on 0.25mL sterile PET bottles [packaging] |
| Materials | |
| Product line | SS AISI 316 |
| Weights & Dimensions | |
| Filling System (L x W x H) & weight | 2934 x 988 x 1943 mm, 480 kg |
| Conveyor Belt (L x W x H) & weight | 2400 x 600 x 933 mm, 307 kg |
| Required utilities | |
| Electrical supply | 380-400 VAC/ 3ph+N+E/ 50Hz/ 16A or 220-240VAC/ 3ph+E/ 60Hz/ 16A |
| Compressed air | 4-7bar(g) [58-100psi]; 5Nm/hr |
| Nitrogen supply (optional) | Max. 3,5bar(g) [51psi] |
| Water supply | Max. 3,5bar(g) [51psi] |

Packaging Type



- Manufacturer: Gosselin
- Bottle Shape: Octagonal bottle 250ml PET assembled
- Color of the secondary body : Natural, transparency equivalent to glass
- Height (mm) : 135.00
- Diameter (mm) : 63.00
- Material and color of the bottle: Natural PET [polyethylene terephthalate]
- Material of the secondary body: HDPE
- Nominal capacity: 250ML
- Weight (with cap): 42 gram per bottle
- Type of closure : 31mm Tamper evident cap, HDPE screw cap
- Food contact : Raw material compliant with regulation EC N°1935/2004
- Sanitary Assurance Level: Sterility Assurance Level (SAL) of 10⁻³ by irradiation method compliant with the requirements of ANSI/AAMI/ISO 11137

Other systems within Asepto-Fill® series



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|-----------------------------------------------------------|------------------------------------------------------------|
| FS213 Asepto-Fill® | FS214 Asepto-Fill® |
| Suitable for 1-person operation, ideal for small batches. | Suitable for 2-person operation, ideal for larger batches. |

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