

FS214 Asepto-Fill® X

Aseptic Filling for Nutraceuticals



Semi-automatic linear filler

There is a growing demand for low capacity aseptic filling equipment for nutraceuticals, functional beverages, and pharmaceutical alternatives.

Suitable both for the food and pharma markets, the FS214 combines SIP automation, an isolator and a laminar flow of sterile air. By automating sterilization of the outer surface of the bottles inside the filling chamber, risks of contamination from the outside are eliminated. Additionally, the SIP of the chamber enables the use of multiple packaging in different sizes, without the need of gamma-radiation. During production, the chamber is fully conditioned to prevent operational errors.

The high-efficiency semi-automated filling and closing operation enables filling to be carried out with a flow up to 100L/h. This filling efficiency would otherwise only be possible in combination with an aseptic buffer tank. This filler ensures less spoilage of your product.

The sterility of the FS214 has been validated in compliance with [ISO 11138](#). This means that this packaging station has been proven to meet the highest standards in hygiene, that are required in the pharma and dairy industries. Consequently, this unique cabinet is suitable for filling large numbers of sterile samples for any application, regardless of the pH-level.

Unique features

- Isolated filling chamber held at positive pressure, combined with a uni-directional down flow
- Smart monitoring of all Critical Control Points, with data logging of the SIP cycle for traceability & quality control
- Automated decontamination via a fogging system using hydrogen peroxide or peracetic acid
- Integrated de-capping and capping devices for semi-automatic filling
- Automated volume dosing control for consistent accurate filling
- Sterility validated in compliance with ISO 11138
- User controlled operation with PLC supervision
- Works with a wide range of pre-sterilized containers with filling volumes in the range of 100-500 mL.

Working Principle

The OMVE Asepto-Fill® X consists of 3 cabinets: the packaging cabinet, the main filling cabinet, and an outlet box. For aseptic processing, the packaging cabinet and working cabinet are sterilized via an automated fogging cycle. Both the packaging cabinet and outlet box are operated as hygienic locks. This allows re-filling and unloading of packaging materials into the main cabinet while maintaining process sterility. The filling points in the main cabinet have CIP and SIP capabilities.



Standard accessories

- Nitrogen jet to reduce oxygen in the packaging
- Heat sealer (non Aseptic)

Specifications

Flow direction	Downflow
Air flow	0.45m/s
ULPA-Filter	U17 in compliance with EN1822
Filling controlled by	Automatic foot pedal
Cleaning / Sterilization suitable	CIP / SIP
Materials	
Product line	SS AISI 316
Dimensions	
LxWxH	280x105x210 cm [110.3x41.3x82.7"]
Weight	600kg [1323lbs]
Utilities	
Electrical	200-240Vac /1ph+N+E /50Hz/ 16A or 200-240Vac /3ph+E /60Hz/ 16A
Compressed Air Supply	4-7 bar(g) [58-100psi] ; 5Nm ³ /h
Water supply	2-3 bar(g) [29-43psi] ; 200L/h ; 0-20°C [32-68°F]
Nitrogen Supply (optional)	Max 3,5 bar(g) [51psi]

Equipment Range

- Clean-Fill FS211 Down Flow Filling Bench with CIP & SIP possibilities
- Asepto-Fill FS212 Microbiological Isolated Filling Bench with CIP, SIP, Isolated filling environment & gamma radiated containers.
- Bag Filler FS218 Aseptic Bag Filler with CIP, SIP, Buffer tank and flow control.

Why OMVE

- ✓ Since 1993, we have specialized in supplying manufacturing R&D and pilot-plant equipment.
- ✓ OMVE is a preferred supplier to leading multinationals worldwide.
- ✓ OMVE systems are designed and manufactured according to the highest industry standards.
- ✓ OMVE systems come with a two-year warranty.
- ✓ OMVE systems carry CE certification.
- ✓ OMVE offers the most comprehensive service available on the market.