

FS210 & FS211: Clean-Fill

Hygienic Filling & Closing Bench

for miniature & pilot scale

Introduction OMVE FS210 Clean-Fill & FS211 Clean-Fill ESL

There are still many laboratories and pilot plants that fill and close the heat-treated product in an open contaminated atmosphere. This creates unacceptable variations in the quality of your trials and gives not a representative simulation of an industrial process line.

The OMVE **Clean-Fill and Clean-Fill ESL** creates class 100 working environment ensuring protection for (non-hazardous) products, which have to be filled in a hygienic environment. The continuous down flow and over pressure, created by the sterile air coming from the HEPA-filter, prevents inflow of contaminated air from outside the filling bench.



Two types of Down Flow Filling Benches

1) The **Clean Fill Basic** is a special designed Filling Station in stainless steel with a filling point. A manual hygienic 3-way valve within the working chamber controls the filling. A closed loop cleaning is standard.

2) The **Clean-Fill ESL** (Extended Shelf Life) is a special designed Filling Station in stainless steel with a filling point. A foot pedal for filling the containers controls an automatic hygienic 3-way valve. A closed loop cleaning is standard. The temperature of the coldest spot is displayed on the touch screen during sterilisation. The condensate cooler assures controllable cooling of the pressurised water or steam during sterilisation.

Features	Benefits
• Minimum height of the unit	• Easy to move to different locations
• Adjustable front window	• No assembling required on site
• Information on TFT touch screen (ESL only)	• Easy for operation & during cleaning
• Drain connection	• Easy to operate
• Smooth surface	• Easy to clean
• Complete Stainless Steel	• Easy to clean
• Integrated in cleaning loop	• Resistant against detergents
• Integrated in sterilisation loop (ESL only)	• Part of the cleaning system with UHT system
• Sterile air by a HEPA-Filter	• Enables to sterilise complete product line
• On wheels	• Minimise contamination
• Wide working area	• Easy to move
• Inlet & outlet feed of containers (option)	• Makes working with the unit more pleasant
• Different closing devices can be installed	• To increase filling efficiency at higher flow rates
• Upgrades are possible	• Very flexible in using different kind of packaging
	• Additional requirements easy to add

**Optional Accessories**

- Buffer tanks
- Hygienic closing devices for different packages
- Automatic inlet and outlet feed of the containers
- Weight controlled dosing system (ESL only)
- Nitrogen jet for low Oxygen (ESL only)

Specifications

Name	Clean-Fill	Clean-Fill ESL
Product code	FS210	FS211
Flow direction	Down flow	Down flow
Air velocity	0,4-0,45 m/s	0,4-0,45 m/s
Total air volume	900 m ³ /hr	900 m ³ /hr
Filters		
Hepa-Filter	H14 acc. to EN1822	H14 acc. to EN1822
Filling controlled by	Manual 3-way valve	Automatic foot pedal
Cleaning	CIP	CIP
Sterilisation	-	SIP
Noise level	< 58 dB(A)	< 58 dB(A)
Light intensity	> 800 lux	> 800 lux
Materials		
Housing	SS AISI 304	SS AISI 304
Product line	SS AISI 316	
Dimensions		
Exterior l x w x h	1290 x 900 x 1800mm	1290 x 900 x 1800mm
Work area l x w x h	1190 x 600 x 600 mm	1190 x 600 x 600 mm
Weight	200 kg	200 kg
Electrical	220V / 1ph / 50Hz / 16A	220V / 1ph / 50Hz / 16A
	Other electrical supplies are available on request	