

FSL 80 - new development for FFS lines

The following options can be added to the basic machine FSL80:

Dosingsystem VDB



- Piston valve dosing unit for freely suctionable and pumpable products
- Continuously adjustable dosing
- High filling accuracy
- Hot – and cold fill (between 4°C bis 92°C)
- With – and without
- CIP / SIP capable cleaning and sterilization system.
- Cleaning bath above the cup web
- In the machine integrated control and process technology
- integrated HMI for operation and recipe management
- The drive for the piston and valve movement via servo motor gear units.

VDB – Hygiene Module



Hygiene module class 04 - ULTRA - CLEAN

- Sterile tunnel totally enclosed with servo motor operated locks at the inlet and outlet to produce different cup heights
 - Completely CIP capable
 - Sterilizable before start of production with H₂O₂ air mixture
 - Drying with sterile hot air
 - Overlay with sterile air during production. The air temperature is controllable - reduction of condensation during cold filling
 - Integrated pre-sealing for the lidding foil to extend the sterile tunnel to the sealing station
 - Web edge control of the cover film. The last deflection roller in the tunnel in front of the sealing station is adjustable
- *Optional: free spaces for installing a dosing station and / or packaging material sterilization*

VDB – Hygiene Module

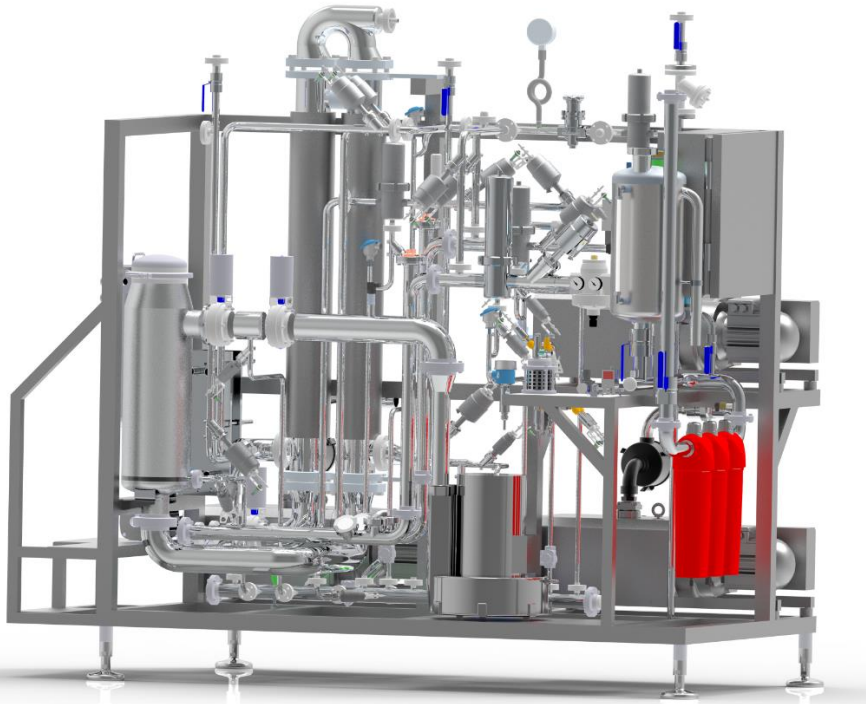
Hygiene module class 04 - ULTRA – CLEAN

Sterile air module consisting of:

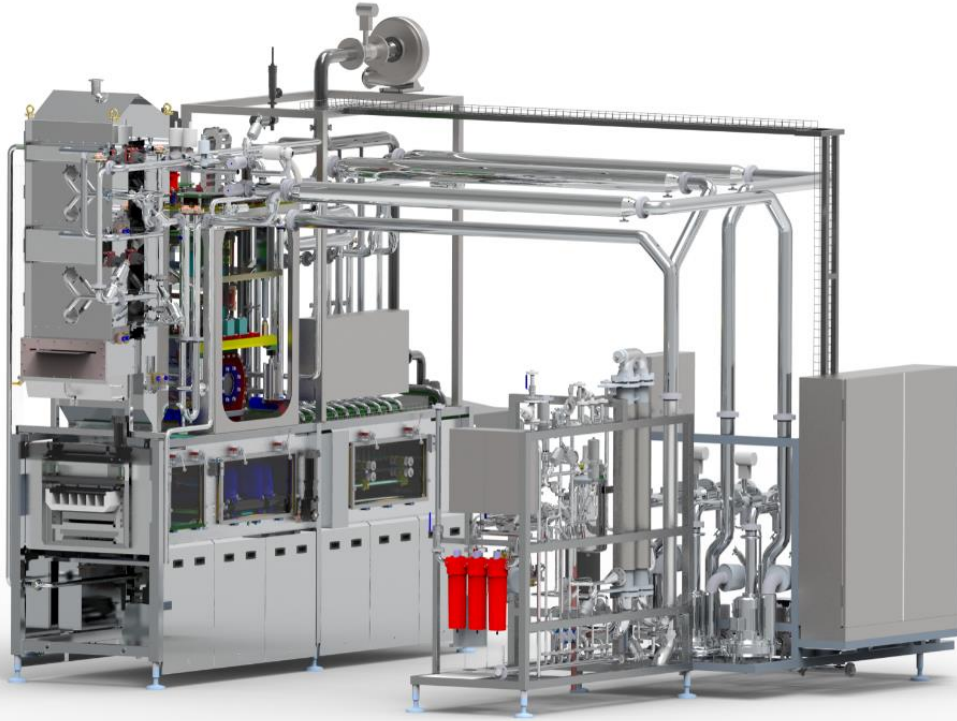
- Sterile air generation by means of side channel compressor for the tunnel air
- Sterile filter combination to supply the forming station
- Sterile filter combination for supplying the dosing station
- H₂O₂ installation components for tunnel disinfection
- water installation – cooling for the basic machine (form, etc)

The module is operated autonomously with the dosing module

- UVC sterilization of the cover foil, consisting of:
 - UVC irradiation of the cover film by air-cooled central radiator.
 - Dust removal for container and lid film by Ionization with sterile air, including suction, for connection to customer suction device.



VDB – Hygiene Module



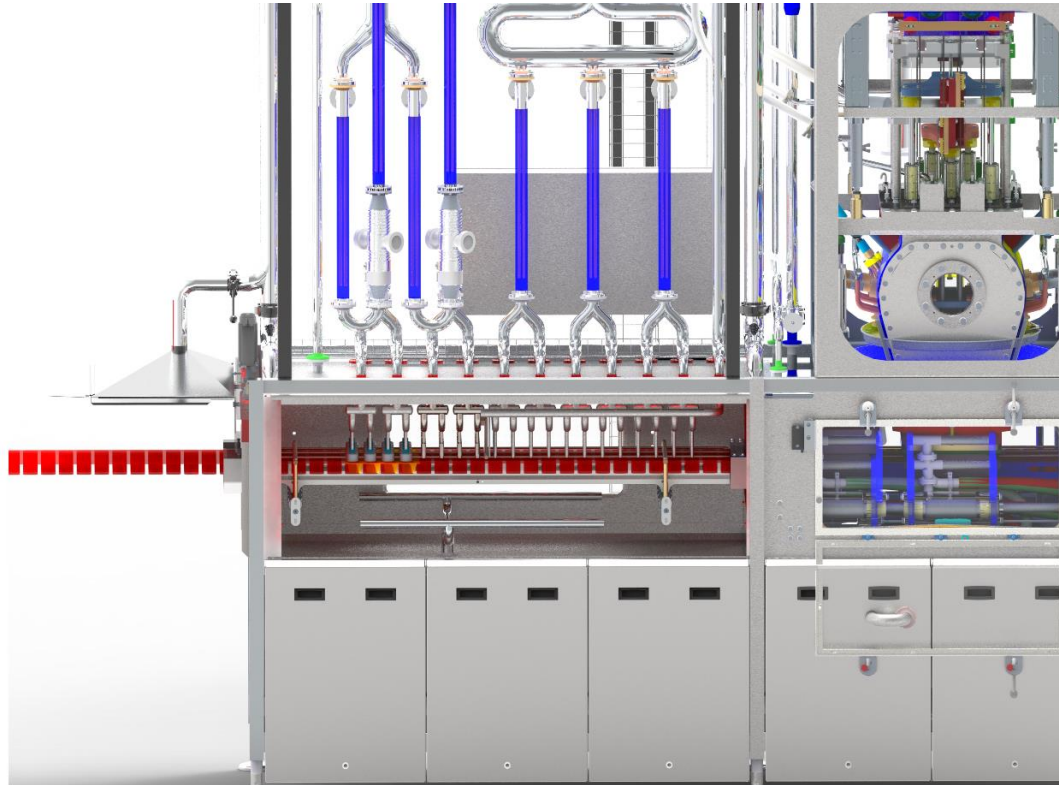
Hygiene module class 5 – aseptic

- Sterile tunnel totally enclosed with servo motor operated locks at the inlet and outlet to produce different cup heights
- Completely CIP capable
- Sterilizable before start of production with H₂O₂ air mixture
- Packaging material sterilization by means of H₂O₂
- Disinfection with H₂O₂-air mixture
- Drying takes place with sterile hot air.
- Overlay with sterile air during production. The air temperature is controllable - reduction of condensation during cold filling
- Integrated pre-sealing for the lidding foil to extend the sterile tunnel to the sealing station
- Aseptikmodul
- *Optional: free spaces for installing a dosing station*

VDB – Hygiene Module

Hygiene module class 5 – aseptic

- Sterilization unit for the molded cups
- Metering of the H₂O₂ aerosol in the first and second cycle
- Drying with hot sterile air over 3 bars
- Servomotor-operated locks at the inlet and outlet to produce different cup heights
- Integrated - defined suction at the inlet and outlet



H₂O₂ console



FSL 80 - new development for FFS lines

VDB – Hygiene Module



Hygiene module class 5 – aseptic

- Sterilization unit for the lid film
- H₂O₂ aerosol is sprayed on in cycles
- Drying with hot sterile air
- optional:
 - N₂ - fumigation before sealing

