ONE CONCEPT, DIFFERENT CONFIGURATIONS

By assembling nozzles in different configurations in the sterilizer, rinser, filler and capper it is possible to achieve different machine speeds, starting from the M.3 (pilot plant) to the M.33.33 (higher speed).

GEA Modulbloc PAA

Aseptic and ESL filling bloc for low-medium speed lines
Aseptic and ESL low-medium speed filling bloc

Would you like to bottle sensitive, high acid or low acid beverages, shelf stable with no preservatives? Enrich the quality and ensure the safety of your products using GEA aseptic filling technology.

A smart solution for low-medium speed

GEA PAA aseptic technology is a smart solution for low/medium speed filling lines. Its compact design makes the Modulbloc the right choice even when limited space is available. GEA Modulbloc includes a sterilizer carousel, a rinsers carousel, a filler and capper carousels all on one single base frame. The ancillaries aseptic process units and the cap sterilizing machine are located on top of the machine.

Optimization of rinsers and sterilizer

Once the bottle is sterilized externally and internally it is rinsed with sterile water. GEA rinsers are equipped with newly designed nozzles which dramatically reduce the rinsing time and water consumption. Both rinser and sterilizer have been specifically designed to minimize the number of wear and tear parts for easy maintenance. Closures are treated by spraying with the same PAA-based solution and rinsed with sterile water.

Bottle Filling

Bottles are transferred to the filler and filled using the most flexible GEA Procomac filling technology:

• FX range valves to fill still products with or without fibers, particles or pieces;
• CX range valves to fill carbonated products;
• Aseptic Piston doser to fill pieces up to 10x10x10 mm.

The product tank is positioned on top of the filling machine in order to reduce product scraps during start-up phase, changeover and end of production phases.

Compact Design

The compact design of Modulbloc is achieved by positioning the following units on top of the machine:

• Cleaning unit;
• Sterilcap for cap sterilization;
• Ecoflux for sterile fluids filtration.

Besides the Modulbloc, it is placed the PAA solution supply to keep the PAA solution while maintaining its temperature, concentration and pressure.

Modulbloc features

Modulbloc is the best solution for relatively small beverage producers that require the latest in aseptic filling technology.

Modulbloc-aseptic-filling-bloc-brochure.pdf

GEA PAA aseptic technology is a smart solution for low/medium speed filling lines. Its compact design makes the Modulbloc the right choice even when limited space is available. GEA Modulbloc includes a sterilizer carousel, a rinsers carousel, a filler and capper carousels all on one single base frame. The ancillaries aseptic process units and the cap sterilizing machine are located on top of the machine.

Optimization of rinsers and sterilizer

Once the bottle is sterilized externally and internally it is rinsed with sterile water. GEA rinsers are equipped with newly designed nozzles which dramatically reduce the rinsing time and water consumption. Both rinser and sterilizer have been specifically designed to minimize the number of wear and tear parts for easy maintenance. Closures are treated by spraying with the same PAA-based solution and rinsed with sterile water.

Bottle Filling

Bottles are transferred to the filler and filled using the most flexible GEA Procomac filling technology:

• FX range valves to fill still products with or without fibers, particles or pieces;
• CX range valves to fill carbonated products;
• Aseptic Piston doser to fill pieces up to 10x10x10 mm.

The product tank is positioned on top of the filling machine in order to reduce product scraps during start-up phase, changeover and end of production phases.

Compact Design

The compact design of Modulbloc is achieved by positioning the following units on top of the machine:

• Cleaning unit;
• Sterilcap for cap sterilization;
• Ecoflux for sterile fluids filtration.

Besides the Modulbloc, it is placed the PAA solution supply to keep the PAA solution while maintaining its temperature, concentration and pressure.

Modulbloc is a robust, proven and reliable aseptic technology for low to medium speed range and long term protection.

Modulbloc-aseptic-filling-bloc-brochure.pdf

Modulbloc is the best solution for relatively small beverage producers that require the latest in aseptic filling technology.

Modulbloc in ESL version

ESL (extended shelf life) products are filled in a clean environment at a temperature between 0 and 4°C with no preservatives; they are distributed using a refrigerated supply chain (4° - 8°C). Modulbloc ESL version easily meets these requirements with a small footprint and easy operation.

Containers and caps are treated with spray Peracetic Acid solution. PAA concentration, temperature and spraying time are continuously monitored to achieve a minimum of 3 log reduction on specific microorganism. After sterilization step, bottles and caps are rinsed with sterile water, obtained by microfiltration; they can then be filled using the complete FX range of valves to fill still products with or without fibers or particles.

Once the bottle is filled, it is capped using a capping machine in ultraclean version. The machines are enclosed within a separate, clean environment protected by overpressure microfiltered air. The environment is automatically cleaned and sanitized before starting production operations.

Aseptic & ESL Modulbloc production rate

Modulbloc speed:

• up to six high speed single serve bottle lines
• up to ten simultaneous two bottle lines

Modulbloc in ESL version

ESL (extended shelf life) products are filled in a clean environment at a temperature between 0 and 4°C with no preservatives; they are distributed using a refrigerated supply chain (4° - 8°C). Modulbloc ESL version easily meets these requirements with a small footprint and easy operation.

Containers and caps are treated with spray Peracetic Acid solution. PAA concentration, temperature and spraying time are continuously monitored to achieve a minimum of 3 log reduction on specific microorganism. After sterilization step, bottles and caps are rinsed with sterile water, obtained by microfiltration; they can then be filled using the complete FX range of valves to fill still products with or without fibers or particles.

Once the bottle is filled, it is capped using a capping machine in ultraclean version. The machines are enclosed within a separate, clean environment protected by overpressure microfiltered air. The environment is automatically cleaned and sanitized before starting production operations.

Aseptic & ESL Modulbloc production rate

Modulbloc speed:

• up to six high speed single serve bottle lines
• up to ten simultaneous two bottle lines

Modulbloc in ESL version

ESL (extended shelf life) products are filled in a clean environment at a temperature between 0 and 4°C with no preservatives; they are distributed using a refrigerated supply chain (4° - 8°C). Modulbloc ESL version easily meets these requirements with a small footprint and easy operation.

Containers and caps are treated with spray Peracetic Acid solution. PAA concentration, temperature and spraying time are continuously monitored to achieve a minimum of 3 log reduction on specific microorganism. After sterilization step, bottles and caps are rinsed with sterile water, obtained by microfiltration; they can then be filled using the complete FX range of valves to fill still products with or without fibers or particles.

Once the bottle is filled, it is capped using a capping machine in ultraclean version. The machines are enclosed within a separate, clean environment protected by overpressure microfiltered air. The environment is automatically cleaned and sanitized before starting production operations.

Aseptic & ESL Modulbloc production rate

Modulbloc speed:

• up to six high speed single serve bottle lines
• up to ten simultaneous two bottle lines