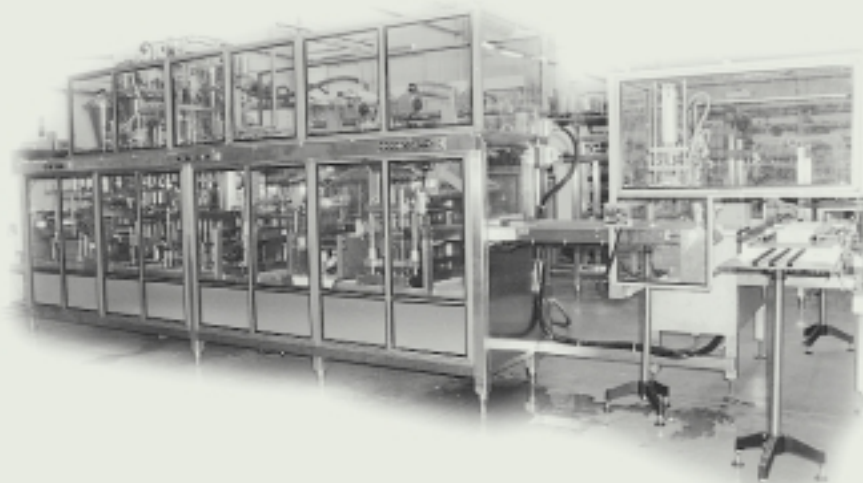


BENGO PACK



machine
version

MACHINE EXECUTION IN ULTRA CLEAN VERSION

MACHINE EXECUTION IN ULTRA CLEAN VERSION

This solution eliminates any product contamination due to the contact with the ambient air. The systems is composed of:

- 1 Independent unit for the production of sterile air for three separate areas for:
pressurisation of the filling tunnel
cup forming air
pressurisation of the product tank

The air is supplied by a single source of compressed air, but is sterilised separately for each area, by means of absolute filters.

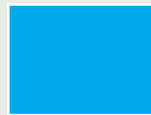
All the areas are provided with thermostats for temperature control, pressure regulators and automatic valves for steam inlet and condensate drainage.

Before each production start, the unit carries out a steam sterilisation cycle of the absolute filters for the production of sterile air.

The sterilisation cycle is carried out by injection of superheated steam through the areas, to be maintained at a given temperature for a certain time, whose values are pre-set.



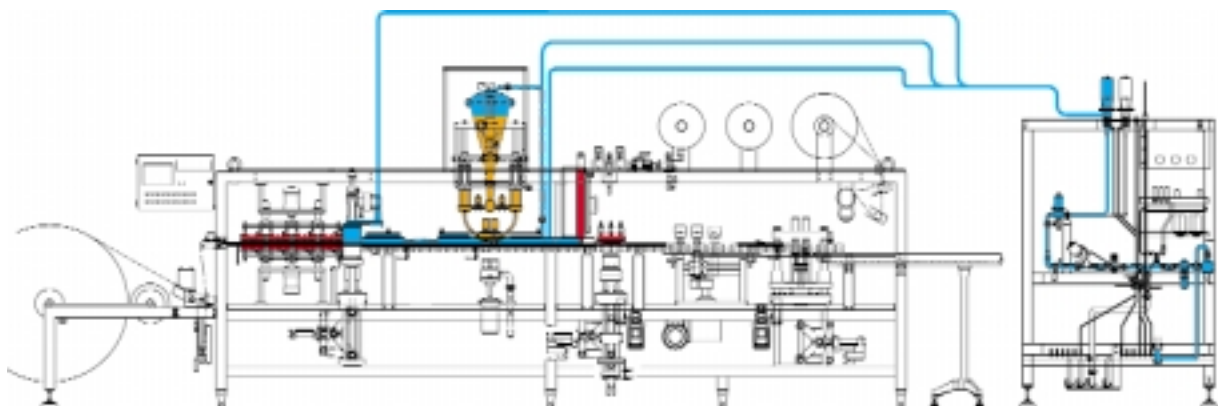
HEATING



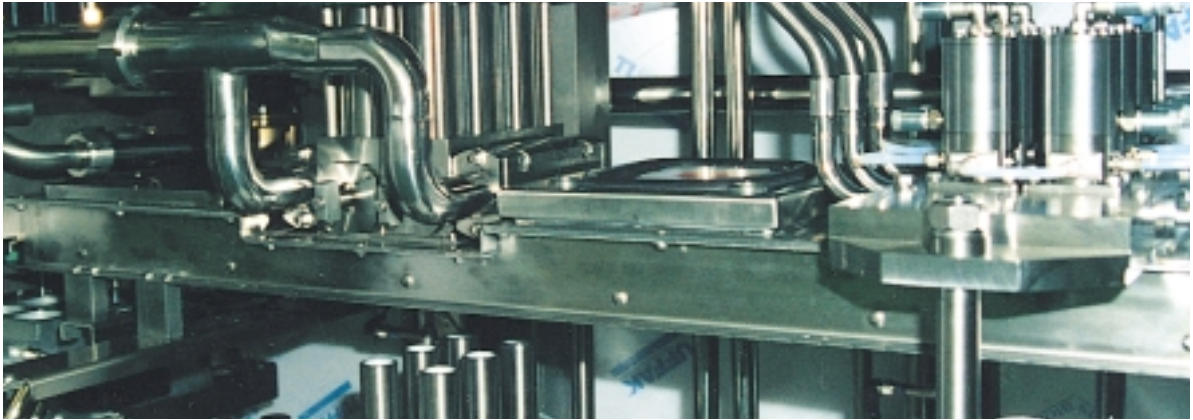
STERILE AIR



PRODUCT



- 2 Tunnel with overpressure of sterile air to avoid any contamination from the external environment during the thermoforming of the cup and the filling of the product.



- 3 UV-lamps for the decontamination of the lidding material.

The UV lamps are installed in the upper part of the sterile tunnel, and have an effective germicidal action against virus, bacteria, yeast and moulds.

Because of their cold radiation, the UV lamps do not heat the packaging materials, and can therefore be used also for plastic materials.

- 4 Aseptic filling unit complete with equipment for the steam-pre-sterilisation and for the pressurisation of the product tank by sterile air.

For easily oxidisable products, sterile air is replaced by inert gas (Nitrogen, CO₂, mixtures) to lower the oxygen presence in the filling tunnel.

The system incorporates:

Thermoforming with inert gas or sterile air.

Overpressure of inert gas or sterile air in the product tank and filling tunnel, protecting the forming and the filling zone.





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