

BOTTLE RINSING REDUCTION TIME REDUCTION WATER CARRYING CAPACITY UNITHERM

Gea Procomac advises all customers who own one of our **aseptic lines** the **possibility to reduce the bottle rinsing time and consequently reduce the sterile water carrying capacity to the Unitherm H.**

From our recent experience in the aseptic filling field, it's been noted that it's possible to reduce the bottle rinsing time without exceeding the maximum threshold of perceptive residual inside the bottle (generally 0,5 ppm).

In the past it was generally considered, as a rinsing time, a congruent value of 4 to 6 seconds, while in the recent applications Gea Procomac has brought this value from 2 to 4 seconds (compatibly with the bottle design and with the customer's qualitative protocol specifications).

This bottle rinsing time reduction entails a lower request of sterile water to the Unitherm H, with a possibility to reduce the carrying capacity of the machine in the production phase. **The reduction of the Unitherm's carrying capacity permits a further reduction of the energetic consumption (steam and chiller).** In certain applications, in function of the presence and typology of the water recovery system of the rinser, **it's also possible to reduce the actual water consumption.**

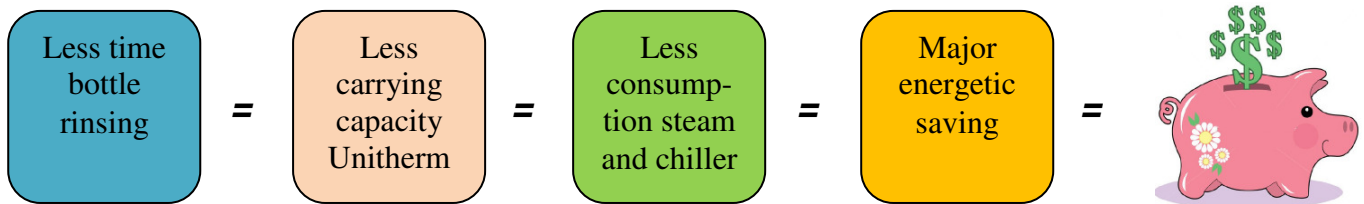
Gea Procomac therefore proposes a software modification aimed to the splitting of the carrying capacity set point in the production and Cip/Sip phases. In the Cip/Sip phase the carrying capacity set point will be the current one (the wastes in this phase cannot be reduced) while in the production phase **it will be possible to arrange the carrying capacity set point with a reduction of approx 30% in respect to the current value** (compatible with the configuration and set up of the system).

This carrying capacity reduction will need to be achieved step by step with the presence of our electronic engineer together with the collaboration of your chemical laboratory which will have the task to sample the perceptive residual in the bottles during the progressive reduction of the treatment time.

In case the format and design of the bottle consent low settings of rinsing times (approx 2 seconds) on the rinser, it will be possible to further reduce the carrying capacity of the Unitherm H by effecting several hydraulic/mechanical modifications on the machine.

In this case the modification will be more expensive because it will be necessary to verify and eventually alter the dimensions of the steam input modulating valve of the heat exchanger and of the sterile water drive pump.

SAVING EQUATION



SUPPLY CONDITIONS

In order to have precise supply conditions please contact our Upgrades Department who will be pleased to supply the best technical/commercial proposal for the bottle rinsing time reduction and consequently reduction of the carrying capacity of the Unitherm H present in your aseptic line.

GEA Procomac S.p.A.
Via Fedolfi 29
43038 Sala Baganza (PR) Italy
Tel + 39 0521 839411
Fax +39 0521 839572
ESP.procomac.it@geagroup.com
www.procomac.it