

Heating energy improvement kit

How it works:

During the past 20 years of PET bottle blowing there have been many ways to improve the efficiency of heating preforms, based on many studies and experiences.

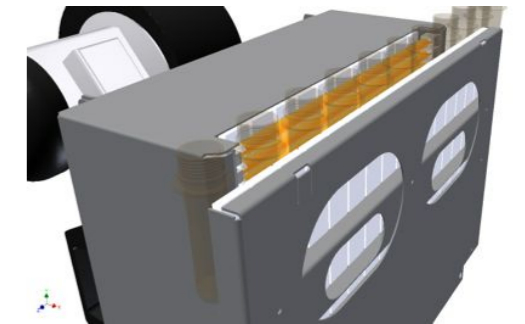
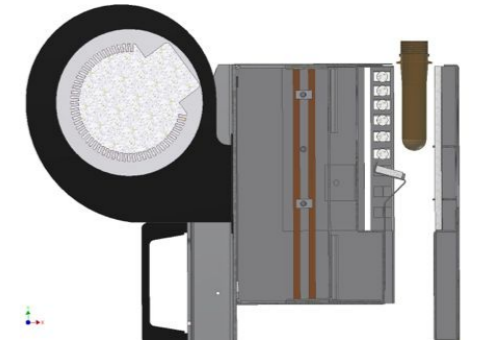
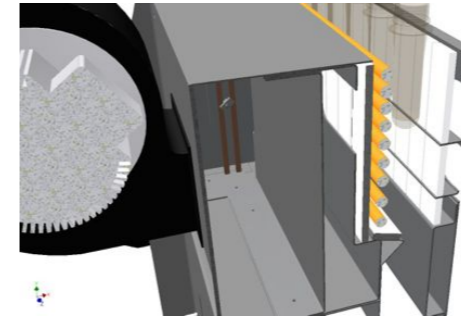
Up until today IR is still been used as most efficient way to heat up preforms. However, the newest generation of equipment is using less than 50% of consumption by changing reflection, ventilation, and spindle chain pitch.

Our technology combines the best reflection material on the market with medium IR radiation to optimise IR absorption in the PET polymer. The shields are built to improve preform ventilation and achieve the right balance of air flow in the oven system.

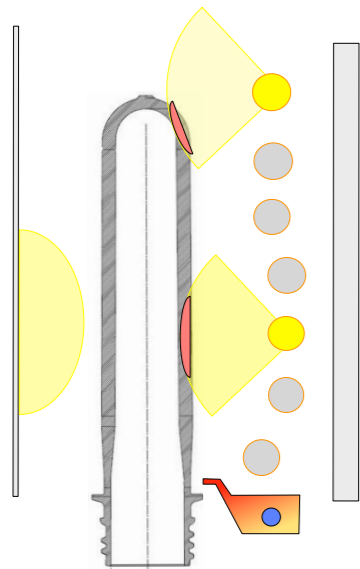
By using a special developed ceramic coating, we can reduce another 3-8KW in cooling water energy. IR will be reflected instead of absorbed by cooling ramps in the oven

After this upgrade, your older installation can compete with the newest equipment on the market in terms of oven heating energy.

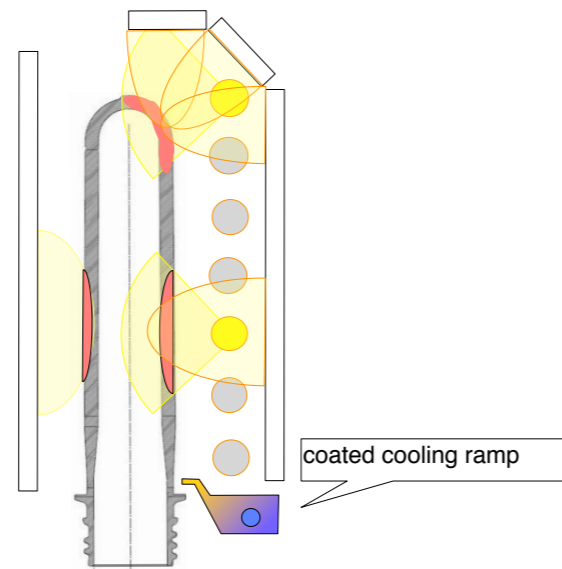
Krones upgrade kit:



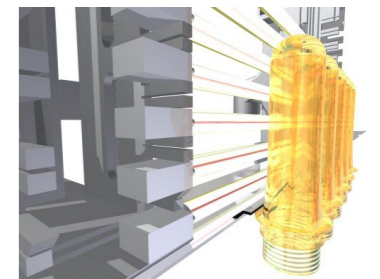
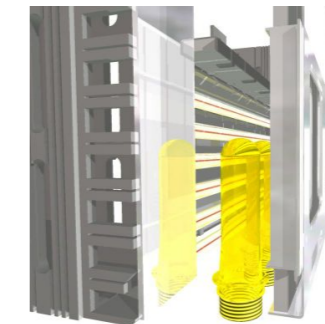
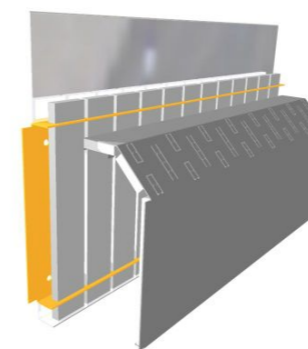
Original situation:



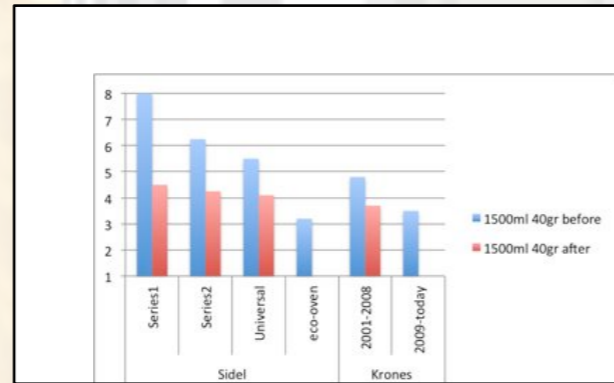
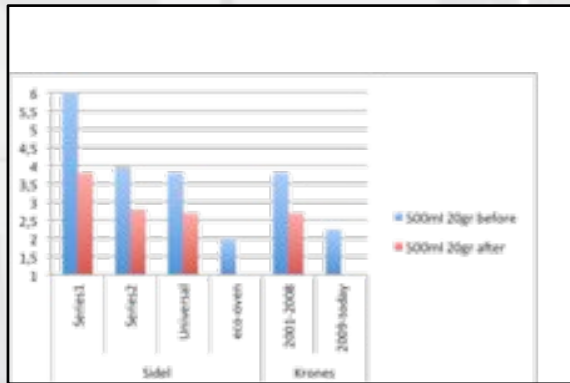
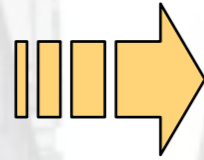
Optimized situation:



Sidel upgrade kit:



Heating energy improvement kit



Quick calculation guidelines:

- 1) Your current consumption situation : W/bottle
- 2) Estimate consumption after retrofit (-25%) : W/bottle
- 3) 1 - 2 = future profit/bottle : W/bottle
- 4) Number of bottles produced / year :x million bottles
- 5) Electricity cost per KWh : (0,1Euro) Euro
- 6) (3 x 4 x 5)/1000 = Euro annual savings

Heating energy improvement kit

Upgrade kit for Sidel, Krones or Sipa blowers to reduce energy consumption

- ➔ Save minimum 25% heating energy.
- ➔ Achieve easier profiling, better process window
- ➔ No increase in maintenance cost
- ➔ Easy and quick installation
- ➔ Proven technology