

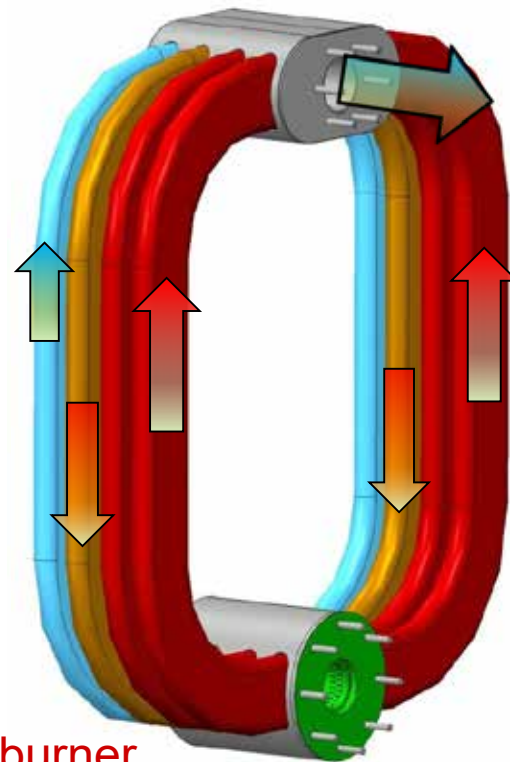


STEELFORM

Proposal: New Combustion cell (concept)

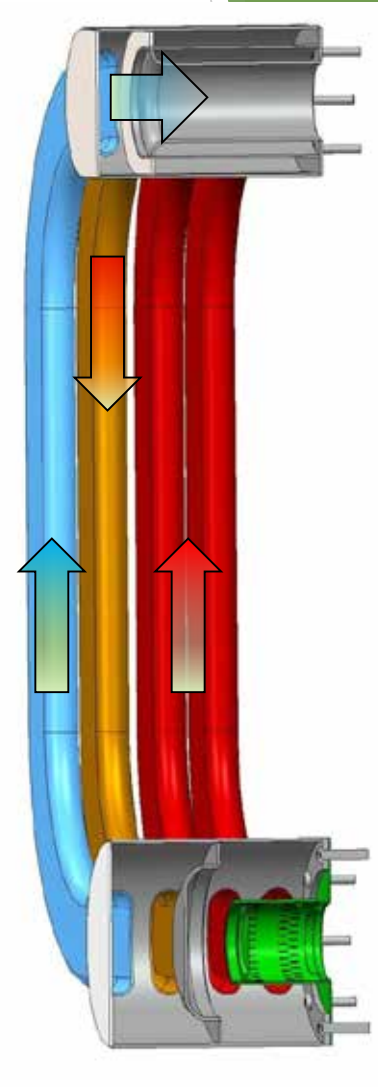
PATENTED

- ❑ New combustion cell including **burner** and a new high efficiency **heat exchanger**;
- ❑ This **solution** is very **compact** if compared to the traditional solutions and allows you using substantially the same oven cell both in electrical and gas supply version;
- ❑ Significant **simplification** of the premix **burner**.



New Combustion cell:advantages

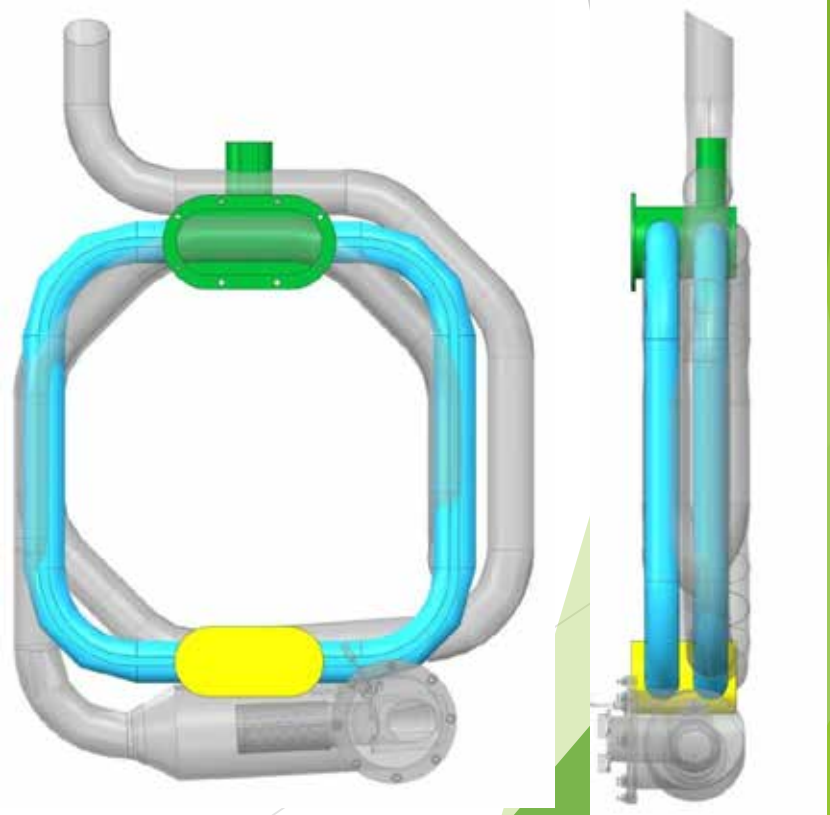
- ❑ The thermal field **symmetry on the vertical axis** of the heat exchanger allows to have air temperature uniformity in different layers of the cooking chamber, due to the fact the hot air distribution generally is made by vertical openings.
- ❑ Thanks to this feature, the design of the **conveyor plate is simplified** and the time spent for the oven's design can be reduced.



New Combustion cell:advantages

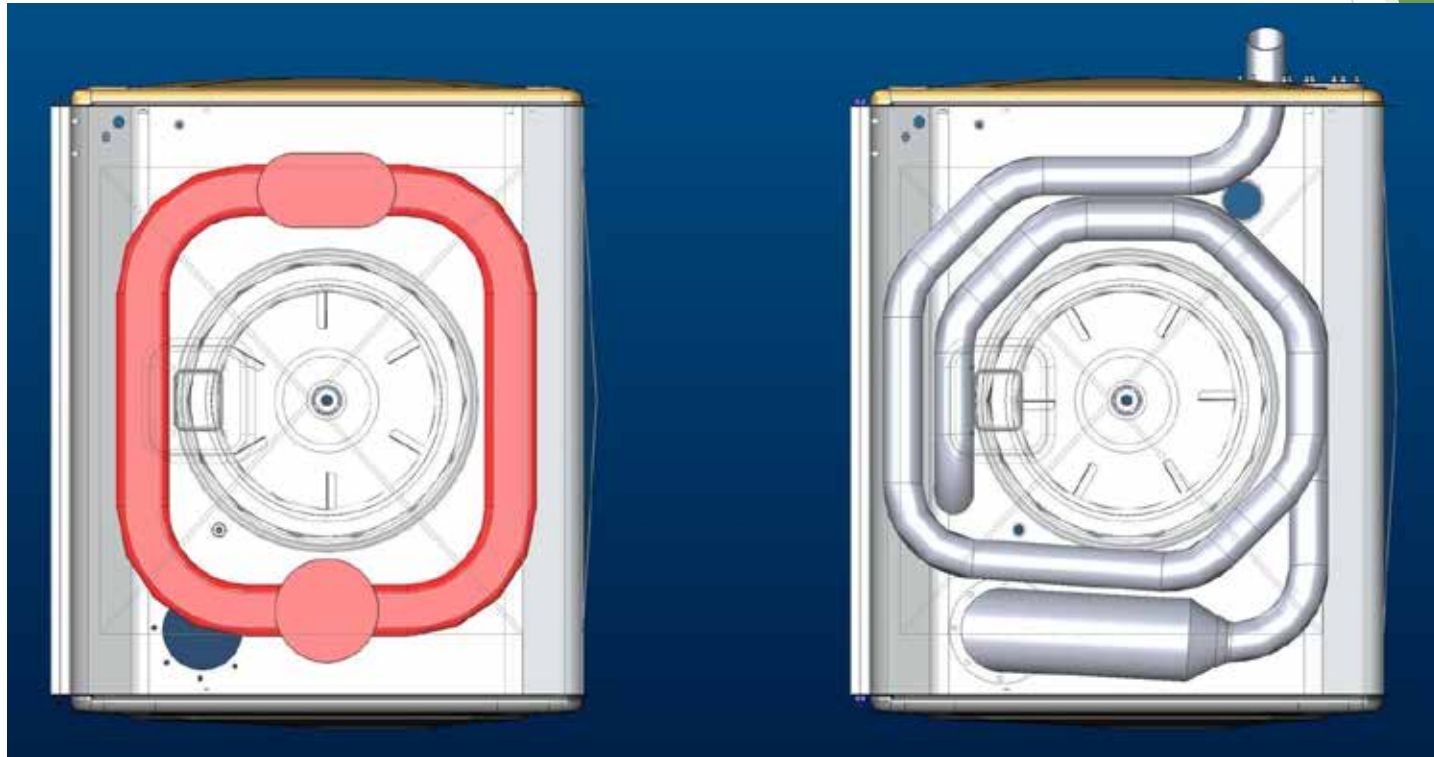
❑ The new combustion cell will be more **compact** if compared to standard current solution with approximately the same heat exchange surface.

❑ The compactness of this solution **facilitates the cleaning** of the oven and especially of the cooking chamber floor.



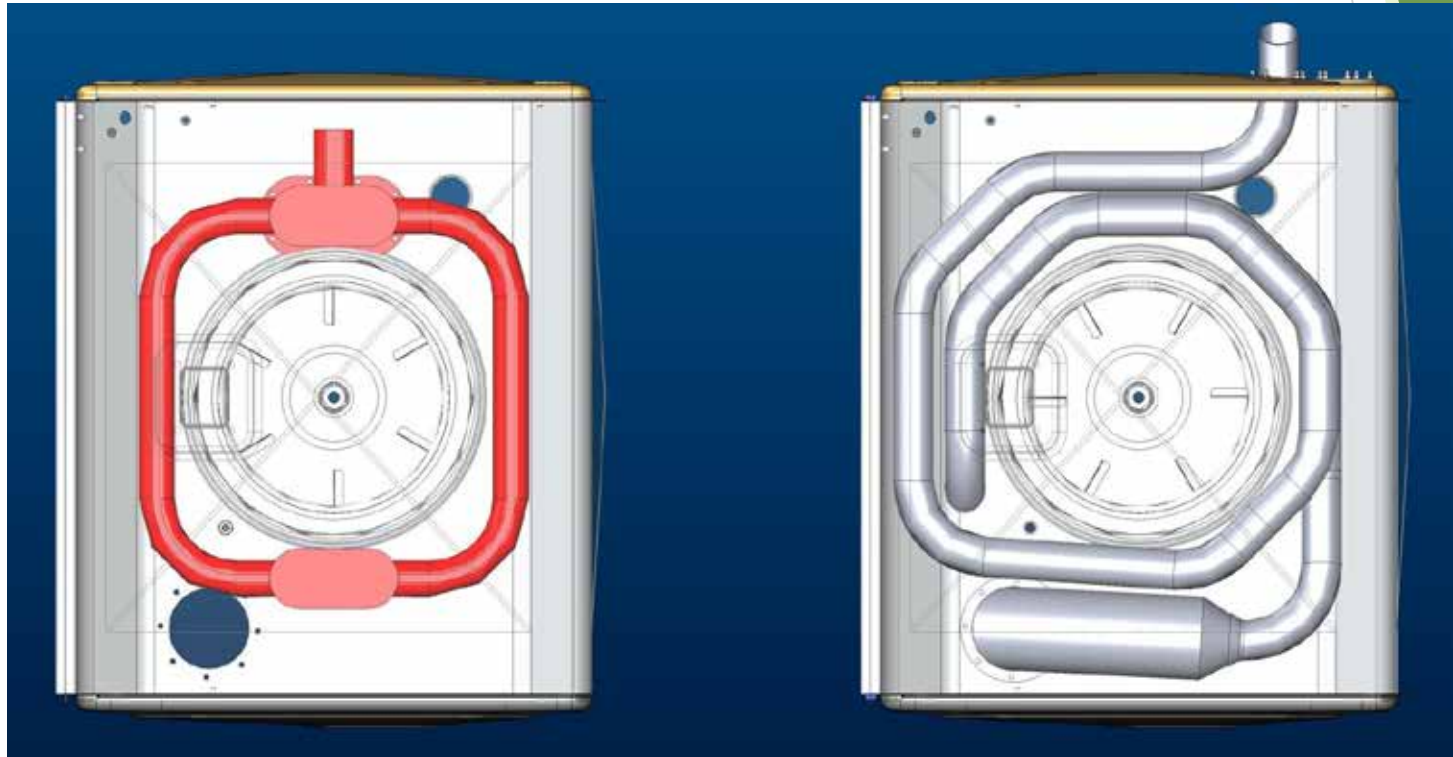
New Combustion cell: dimensional comparison

- Dimensional comparison between current standard solution and the STEELFORM one with the combustion chamber on the lower side of the oven.



New Combustion cell: dimensional comparison

- Dimensional comparison between current standard solution and the STEELFORM one with the combustion chamber on the upper side of the oven.

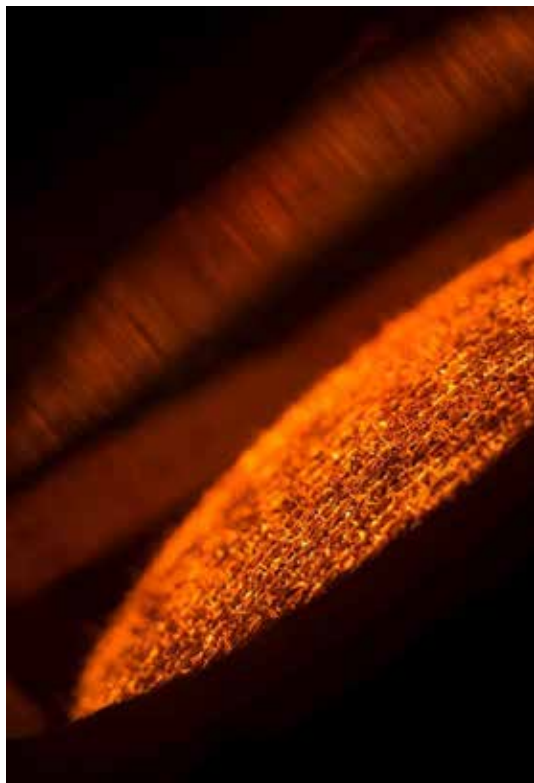


New Combustion cell: dimensional comparison

- ❑ The possibility to install the combustion chamber on the upper side of the oven has two main advantages:
 1. The further reduction of the dimension of the heat exchanger avoiding the last spire needed to discharge the exhaust gases on the upper side;
 2. The 'clearance' of the lower side of the technical zone where usually are located all the gas and electrical devices facilitating the maintenance operations.

Next steps

- Feasibility study relevant functional features, production process and economical analysis;
- Samples and life test;
- Main milestones of the project.



Thank you for your attention!

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