



CATALOGUE

# Ovens and Heater Boxes

Customizable solutions for any application

[cedinsamex.net](http://cedinsamex.net)

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**CEDINSA**® is a flexible organization, totally committed to understand and comply the needs and expectations of all our customers, through the development, engineering and manufacturing of equipment, achieving a high level of customer satisfaction.

We design, develop and implement energy efficient air systems. Our promise to our customers is transform their ideas into reality.

Our Engineering team has the experience and capacity to generate accurate calculations, this allows us to select and design equipment that meets the needs of our customers within their processes.

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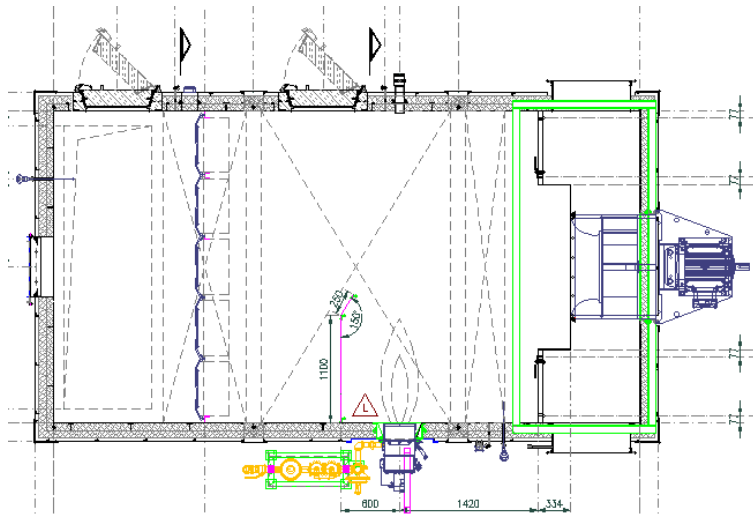
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# Qualified engineering – Functional design

- **CEDINSA®** design, build, install and start-up custom Heater boxes and Ovens.
- Able to design the whole system: heater box, burner, ductwork, fan and Oven.
- We manufacture convection flow heated ovens with forced hot air.







# Triple Layer System

The **Triple Layer System** look for the coldest outer Surface on Ovens and Heater Boxes, this system uses mineral wool with reflecting foil, air gap and ceramic coating cladding.

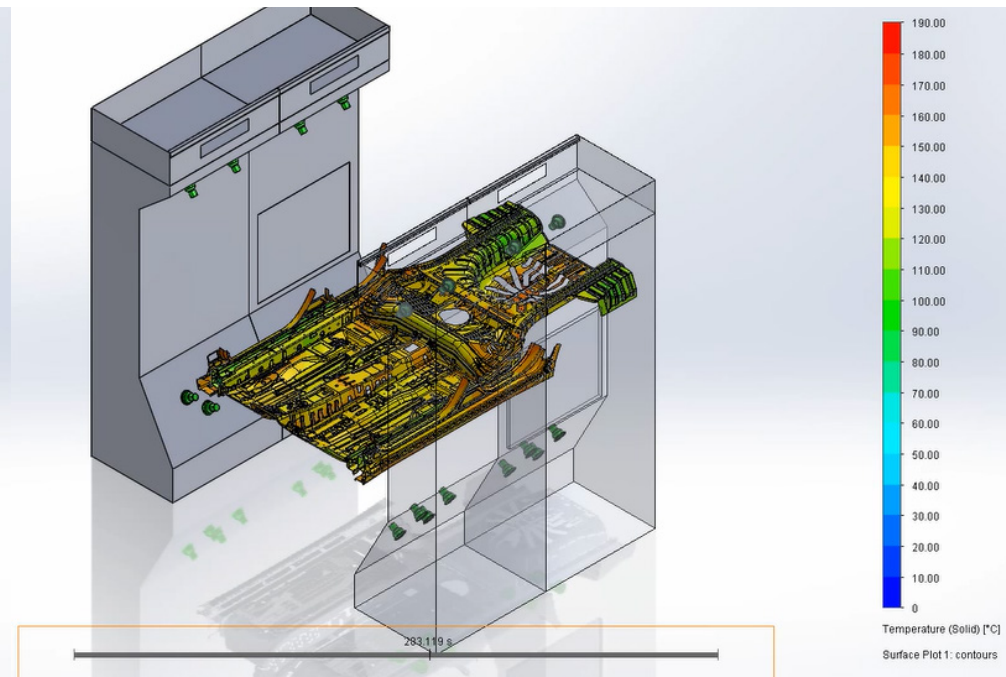
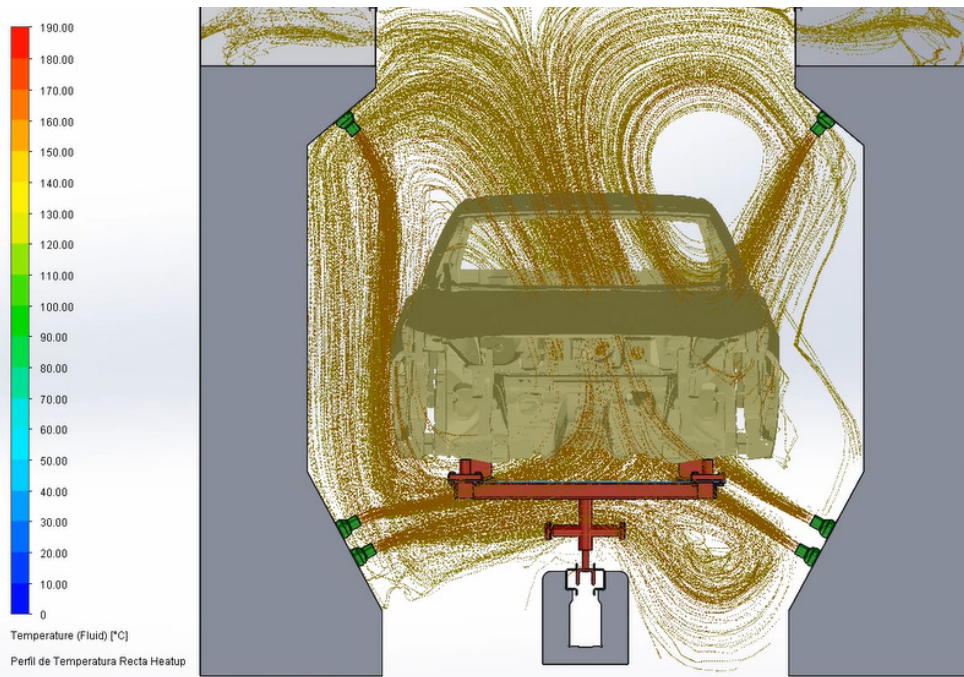
Great care is taken on critical parts like doors to prevent thermal bridges.

## Advantages

- ✔ Energy Efficient.
- ✔ Safe to the touch.
- ✔ Extend the life of elements like cables and rubber coated elements.

# CFD Studio

**CEDINSA®** offers to his customers the possibility of visualizing the behavior of their processes before modifying it and/or manufacturing the necessary equipment, by executing CFD modeling and thus confirming in a tangible way what was previously calculated



CFD Nuzzles direction

CFD Unit temperatures



# Heater Boxes Types

## Direct Combustion Chamber

The hot air comes into direct contact with the burner flame and is sent directly to the oven, along with the combustion products. This type of chamber is recommended for ovens with layers below to the final finish such as Electro-deposition or sealer.

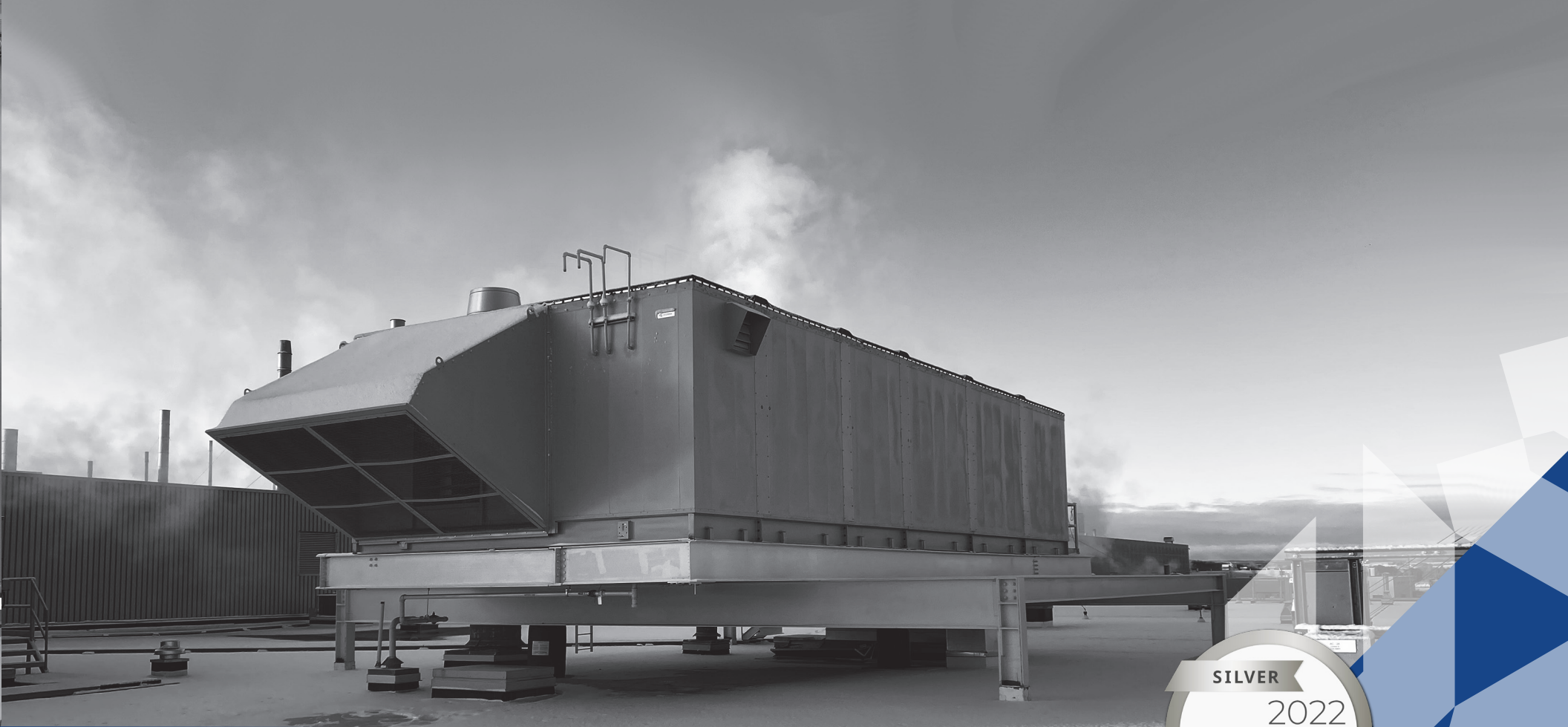
Direct fire ovens are not used for top coats, base coats and clear coats.



## Indirect Combustion Chambers

In this type of chamber, the air passes through an Air-Air heat exchanger, which uses burned air to heat the clean air, the "clean" air is sent into the oven. This way, the combustion products do not affect the quality of finishes. These are considered safer because there isn't a risk of gas leaking into the oven.





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