

O V E N S

Vocabulary

- Control panel
- Programmer
- Controls
- Handle
- Door
- Glass



- Probe
- Muffle
- Grill
- Lighting
- Shelf
- Cooling fan
- Rotisserie
- Bottom



Two main segments

Cleaning

- Pyrolysis
- Catalysis
- Smooth enamel

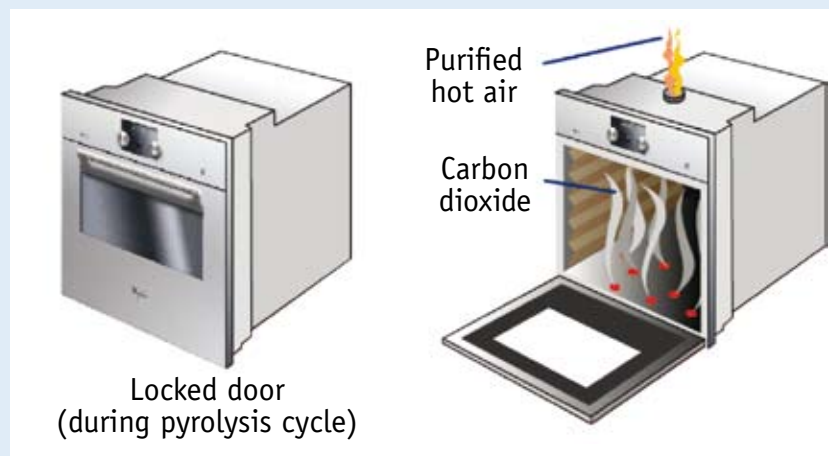
Cooking

- Multifunction
- Natural convection

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Cleaning pyrolysis (Carbonisation)

Self-cleaning:

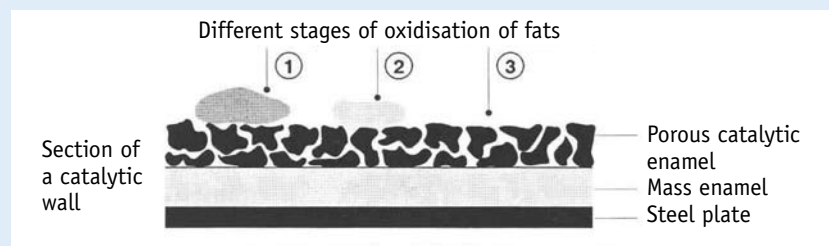


- Transformation of items into carbon.
- This happens at a very high temperature.
- Effective T°C of pyrolysis: 500°C.
- Cycle duration variable, depending on how dirty the oven is.
- Automatic or manual.
- Average cleaning cost € 0.35 in normal mode.

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Cleaning catalysis (Combustion)

The walls of the oven are covered with porous enamel that burns fats, through oxidisation, during cooking.



Cleaning smooth enamel

Ovens that do not have a catalytic or pyrolytic function have a muffle whose walls are covered with smooth enamel.

This enamel must be maintained regularly by the user with a gentle detergent or sponge.

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Cooking methods

Natural convection

This is the traditional oven with only two elements: the bottom and the grill.

Multifunction

Thanks to its ventilation system, a “multifunction” oven is capable of cooking several dishes at the same time.

The circulation of driven or fanned air makes it possible to achieve an even temperature in the oven.



Advantages

- No preheating (only for fan ovens).
- Multicooking, dishes of the same kind.
- Uniform cooking.

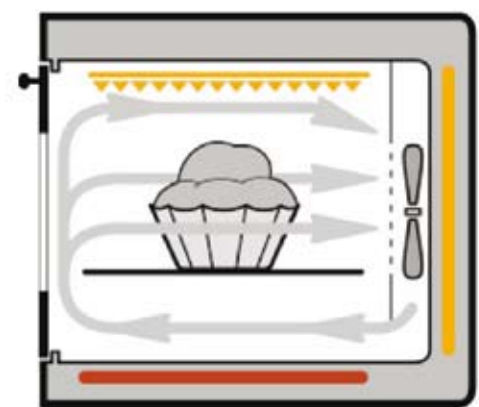
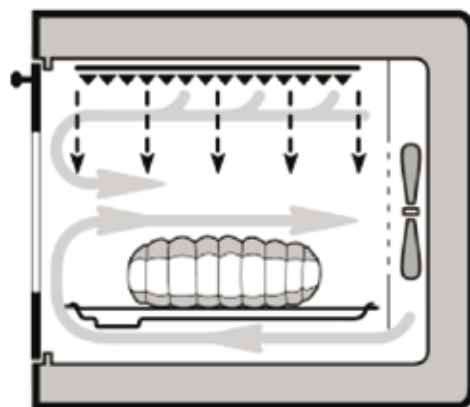
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The cooking functions

A cooking function corresponds to the operation of one or more heat sources.

An oven offers:

- 3 or 4 with natural convection.
- Many in multifunction (can vary between 6 and more than 20 depending on the oven).



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The muffle

This is the vital part of the oven:

It is defined by certain features:

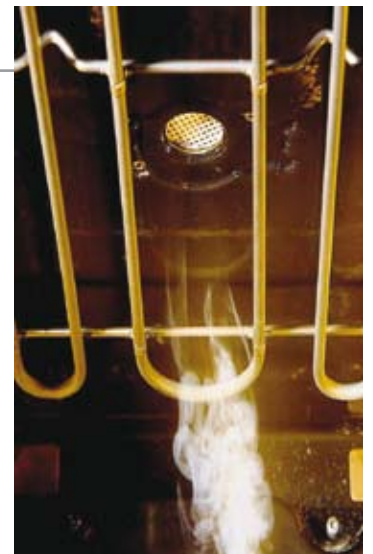


- Its volume (45-60 liters for 60 cm ones and 65-75 liters for 90 cm ones).
- Its manufacture (one-piece → less welding → less risk of rusting).

Odour-free cooking

Fume purifier:

Fumes, odours and vapours are catalysed by a **self-cleaning** ceramic filter even during the pyrolysis cycle.



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Safety



To limit the number of domestic accidents to children and also to adults, many forms of protection may be installed on products.



Door locking

Two types of protection:



- **During pyrolysis:**

Generally the door is locked from the time when the temperature in the muffle reaches 300°C
→ compulsory by law.

- **Other:**

The door can be locked (and unlocked) at any time using a simple switch.

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The cold door

Two definitions:



- **The cold door:**
This corresponds to various technical temperature and temperature measurement criteria.
- **Other:**
It can be declared "Cold" by the manufacturer.



Cooling fan

The "heat shield":

- Tangential fan.
- Rock wool insulation.
- Aluminium sheeting.

This allows the installation of ovens without constraints: they can be built-under or column-mounted.

