

## SPEC SHEET

Electric convection oven R-Box **CE**



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# INSTALLATION

This machine is designed for professional use and therefore must be installed in a work space which is NOT ACCESSIBLE TO THE PUBLIC for obvious safety reasons.

## 1. Before the installation, make sure that :



The oven will be installed on a fireproof support (imperative) : wood, etc. ... banned for obvious safety reasons.  
The oven must be aerated in an ambient atmosphere below 32°C (90°F), to ensure its proper operating. Do not obstruct the oven ventilation grids.

The equipment must be set up on a flat floor, with a sufficient safety allowable load.  
Keep a distance at least :

- Handle side : 50 mm
- Hinges side : 70 mm for door opening
- Above : Do not obstruct the air vents
- Behind : 250 mm
- Under : If the oven is not secured on the manufacturer's table at delivery time, the oven feet are not fitted (they are inside the oven). It is imperative to screw them during installation to allow the free flow of air beneath the oven.

The room lay-out and the ventilation must comply with the legal standards.  
The free space from the wall to the back of the oven must be 250 mm to ensure that oven works well.  
Important service area : service access to the technical part must be provided.  
An adequate natural airflow must be provided around the equipment.

## 2. Power supply



Each oven must be individually protected with a system close to the appliance, easily accessible and in conformity with legislation.

Note : the EARTH continuity circuit must be provided between the appliance and its electrical connection.  
Be sure to ground the appliance. Do not connect the ground wire to gas or water pipes, lightning rods, or telephone grounding lines. If the appliance is not properly grounded, electric shock may result.  
The customer must install a differential circuit breaker (1 per oven).  
General protection :

- FBE-03T230C\*\*\* + FBE-04T250D\*\*\* + FBE-04T250B\*\*\* : 20A
- FBE-04T250C\*\*\* : 32A

The power supply voltage must match the indicated voltage specified on the nameplate.


This appliance is supplied with an electrical cable 1,5 m long, equipped with an electric plug 16A (FBE-03T230C\*\*\* + FBE-04T250D\*\*\* + FBE-04T250B\*\*\*) - 32A (FBE-04T250C\*\*\*).

### 3. Water supply

Valve  $\varnothing$  3/4" to 1 m above the floor, close to the equipment and easily accessible.  
At the output of this valve, pipes and connection need to be prepared.

The water solenoid valve is equipped with a flow reducer (at 3 bar, the flow is about 1,2 L/mn). If necessary, the water flow can be increased by exchanging the reducer model.

The appliance is supplied with a 2 m flexible stainless steel hose for water supply.


 In case the water analysis results are critical, it is highly recommended to apply water treatment in order to avoid scaling problems.

### 4. Steam exhaust

Oven outlet : tube  $\varnothing$  76 mm.

The appliance is supplied with a stainless steel tee-connection and a reinforced hose 1,5 m for the condensate drain.

Pipes fitting : Female / oven side, male / outlet.

 We would like to draw your attention to the oven exhaust in particular. It must be installed and serviced by a professional heating engineer due to the risks incurred when steam is not properly expelled.  
The heating engineer is the only person who is qualified to determinate the lengths, diameters and elbows etc of the steam exhaust in line with the technical data of the equipment, operating and installation site and applicable standards.  
The quality of the exhaust has an influence on the baking quality.  
We cannot under any circumstances be held responsible for any malfunction of the appliance due to an exhaust which is not adapted to/compliant with the requirements of the technical regulations and laws in force .

## BEFORE UNDERTAKING ANY WORK ON THE EQUIPMENT



Before undertaking any work on electrical parts, disconnect the supply to the appliance at the external disconnecting switch.


Beware of residual voltage.

To disconnect the appliance from the electric plug, never pull the wire.



Do not touch the appliance :

- With any wet or damp body parts.
- If you are barefoot.

 All work on the equipment must be done by a qualified and approved professional.  
In the event of false alarm in the safety system, you must contact your supplier.

# APPLIANCE CHARACTERISTICS

## 1. Description

a. The oven is made of :

- A stainless steel sheet assembly forming the tight chamber.
- A glass door.
- An external stainless steel shell.
- A stainless steel front face.
- A steam system.
- A control board :

- Touchscreen control panel eDrive4



Control of the following functions : Steam, Exhaust vent (damper), Energy saving, Odor stop, Fan control , Weekly planning, 1 manual program + 150 programs.

- Control panel with digital display EM



Control of the following functions : Timer, Steam, Exhaust vent (damper), Energy saving

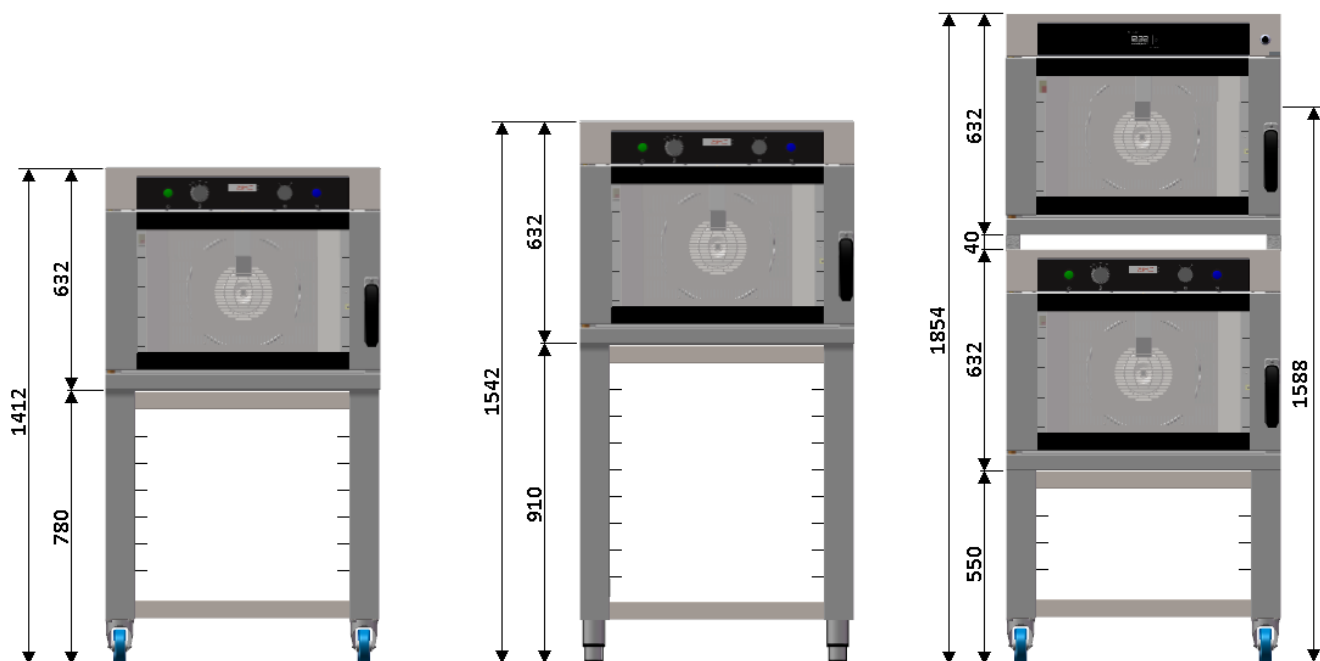
b. Option

Table\*:

- Height : 910 mm - 8 trays
- Height : 780 mm - 6 trays
- Height : 550 mm - 3 trays (only for 2 ovens stacked)

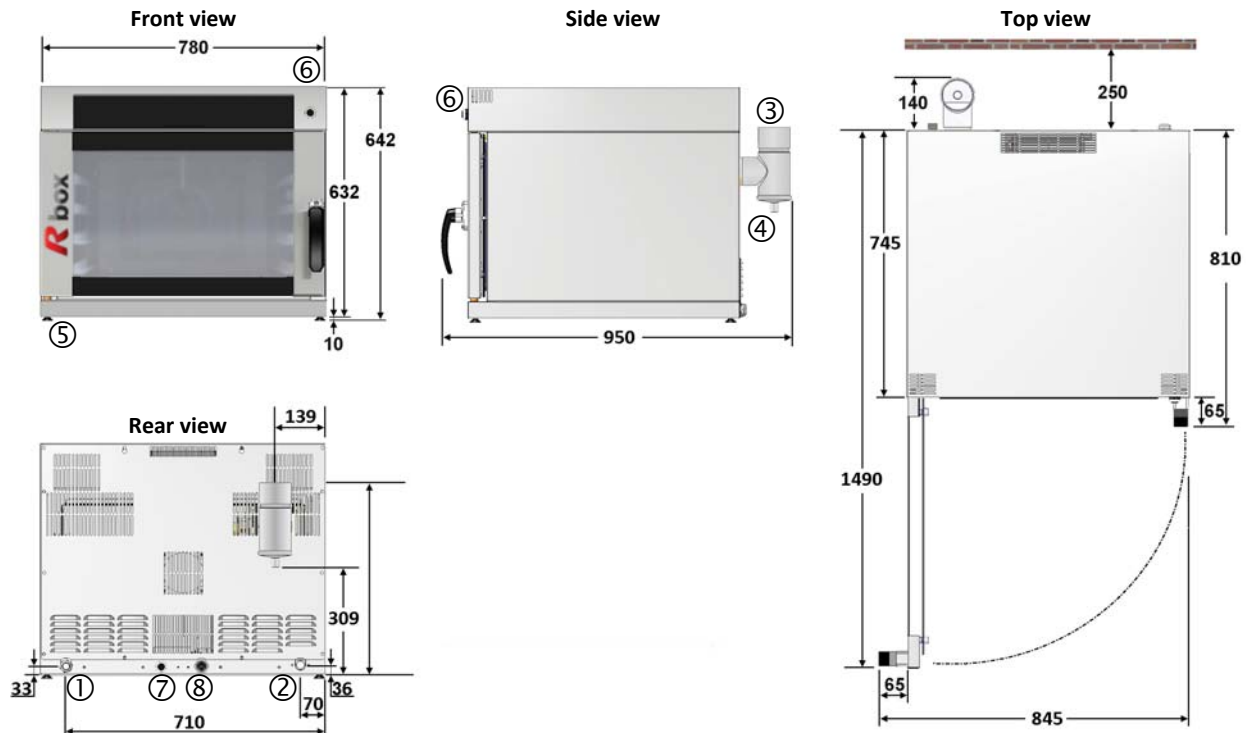
\* Height of casters under table : 130 mm / Height of feet under table : adjustable from 90 mm to 130 mm.

## 2. Possible configurations



# SPEC SHEET

## 1. Dimensions in mm



① This appliance is supplied with an electrical cable 1,5 m long, equipped with an electric plug 16A (FBE-03T230C\*\*\* + FBE-04T250D\*\*\* + FBE-04T250B\*\*\*) - 32A (FBE-04T250C\*\*\*).

② Cold water connection at 1 m of the coupling point :  $\varnothing$  3/4" - 3 bars mini - 5 bars maxi.

③ Steam exhaust pipe. Oven outlet : tube  $\varnothing$  76 mm.

④ Purging at 1 m of the coupling point  $\varnothing$  20 mm.

⑤ Feet : If the oven is not secured on the manufacturer's table at delivery time, the oven feet are not fitted (they are inside the oven). It is imperative to screw them during installation to allow the free flow of air beneath the oven : at delivery, feet are not fitted. It is imperative to fit the feet when installing the oven to ensure free flow of air under the oven. Any installation and / or use which is at variance with our recommendations will automatically void the manufacturer's warranty.

### Oven equipped with a control panel : eDrive 4

⑥ USB Jack : Upload/download of baking programs and upload of relay board software.

⑦ USB Jack : Upload of screen software.

⑧ Adjustable buzzer.

**!** Inlets ① ② and outlets ③ ④ are at customer's charge and have to be in-service the day of installation.

The oven must be aerated in an ambient atmosphere below 32°C (90°F), to ensure its proper operating. Do not obstruct the oven ventilation grids.



When the analysis results of water are critical, it is deeply recommended to treat the inlet water to avoid any scaling problem.

## 2. Technical data

Trays dimensions : 600x400mm / GN1/1 (option)

Model - Number of level : FBE-03T\*\*\*\* - 3 levels / FBE-04T\*\*\*\* - 4 levels

Space between levels : 98 mm (FBE-03) / 85 mm (FBE-04)

Sound power : from 66 to 73 dB(A) with control panel eDrive4 / 65 dB(A) with control panel EM

Volume : 132 L - Weight : 74 Kg - Ventilation : Alternation - Reversible door

## 3. Electrical data

Electrical power (maxi) : 3,7 kW (FBE-03) / 5,9 kW (FBE-04)

Heating power : 3,15 kW (FBE-03) / 5,25 kW (FBE-04)

Voltage / Frequency / Intensity :

FBE-03 :  $\sim$ 1x230V+N+G / 50-60 Hz / 15,3 A

FBE-04 :  $\sim$ 1x230V+N+G / 50-60 Hz / 25,6 A -  $\sim$ 3x230V+G / 50-60 Hz / 14,9 A -  $\sim$ 3x400V+N+G / 50-60 Hz / 8,6 A

## REAR VIEW / CONNECTIONS PRINCIPLE



The oven must be aerated in an ambient atmosphere below 32°C (90°F), to ensure its proper operating. Do not obstruct the oven ventilation grids.



Here above, the right connections for your oven

- ❶ This appliance is supplied with a 1,5 m long electrical cable
- ❷ Water solenoid valve  $\varnothing$  3/4" - 3 bars mini - 5 bars maxi.
- ❸ Purging
- ❹ Stainless steel hose for water inlet - 2 m
- ❺ Stainless steel tee  $\varnothing$  86 mm
- ❻ Reinforced flexible for draining of condensates - 1,5 m
- ❼ Electric plug :



FBE-03T230C : Electric plug 16A - 2 poles + Ground -  $\sim$ 1x230V+N+G (type F - IEC 60320) 0001-22100015



FBE-04T250C : Electric plug 32A - 2 poles + Ground -  $\sim$ 1x230V+N+G (IEC 60309-1 / IEC 60309-2) 0001-22100023



FBE-04T250D : Electric plug 16A - 3 poles + Neutral + Ground -  $\sim$ 3x400V+N+G (IEC 60309-1 / IEC 60309-2) 0001-22100022



FBE-04T250B : Electric plug 16A - 3 poles + Ground -  $\sim$ 3x230V+G (IEC 60309-1 / IEC 60309-2) 0001-22100047



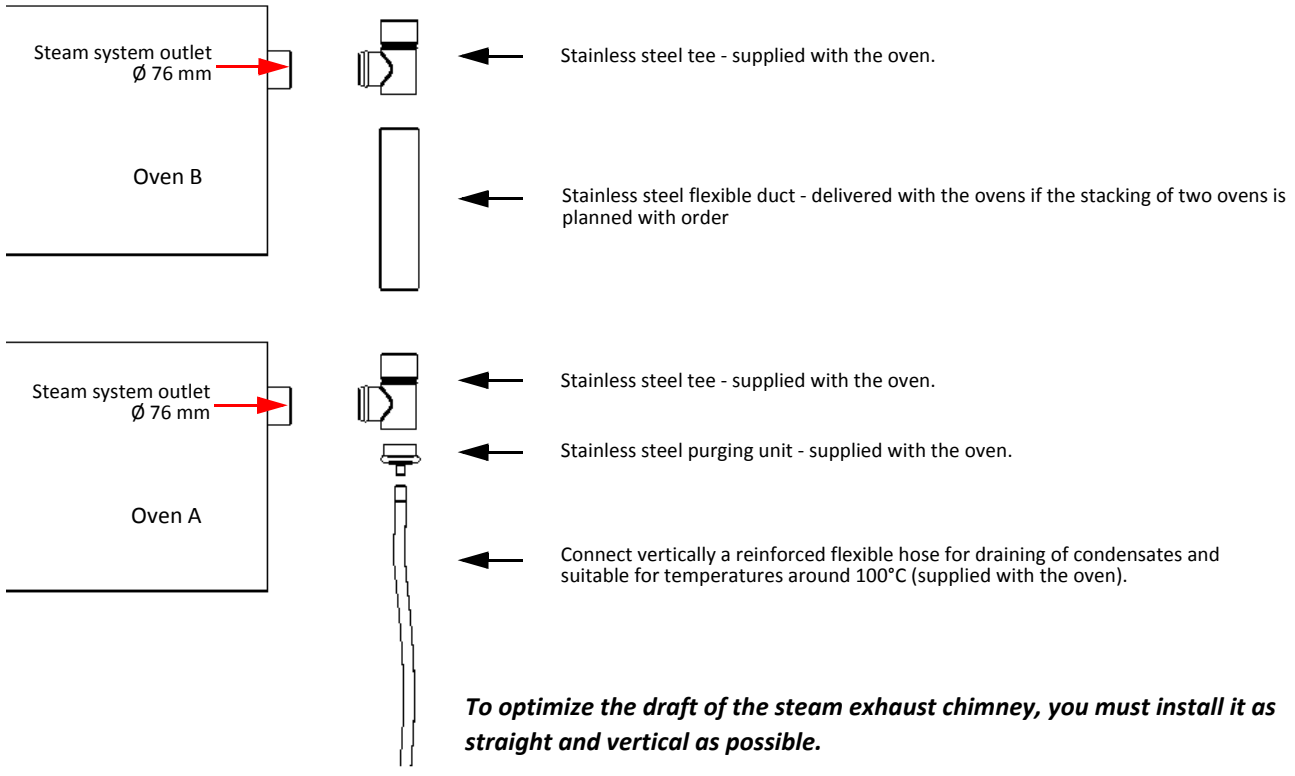
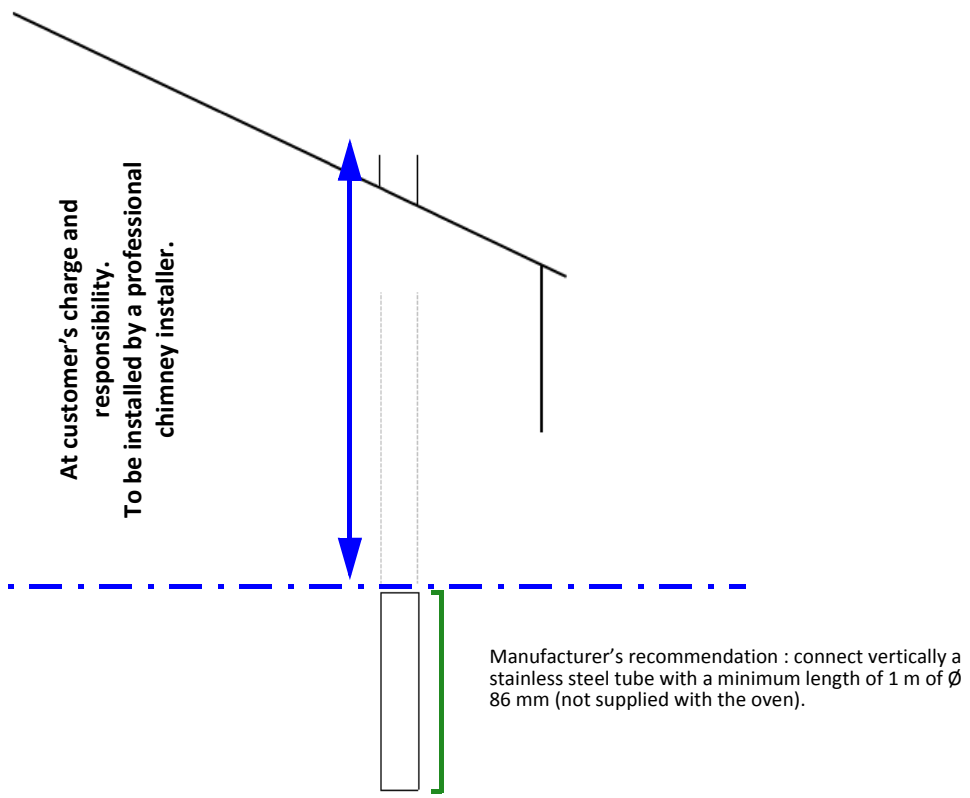
**Not supplied with the oven :**




Steam exhaust pipe :  
Manufacturer's recommendation : connect vertically a stainless steel tube with a minimum length of 1 m of  $\varnothing$  86 mm.



Stainless steel tee - oven side and steam exhaust pipe side : Seal with high temperature silicone and then cover with aluminium scotch.



 It is forbidden to connect the steam pipe to a smoke drain and to exit with a horizontal pipe.

## WATER QUALITY

Although if clean and safe for consumption, the water supplied can have a bad taste (caused by the chlorine), be corrosive or cause calcareous deposits.

After analysis, when the water characteristics reach critical levels, it is imperative to install a water treatment system upstream to increase the life duration of your equipment.

Depending on the concentrations of chloride, carbonate and the pH value, it may also be necessary to treat water to reduce the corrosion risks.

A system of water treatment is strongly recommended in the following cases :


- if the water hardness is greater than or equal to 15°f : Hard water. It is a calcareous water that generates a very important scale deposit especially in hot condition ( 60°C).
- if it is a very soft water (TH<9°f) and a pH more than or equal to 7 : Corrosive water termed aggressive. Aggressive water involves the metal rust. The soft water corrosiveness is increased when its pH is acidic.
- if the pH is less than 6.8 or more than 7.5.
- for high concentrations of chlorides or nitrates.

Depending on water analysis results , various solutions are possible : neutralizing filters , water softener, activated carbon filters, ... A water treatment specialist will be able to propose you a solution in compliance with your installation and based on the water analysis results.

Once the treatment system installed, check its effectiveness through further analysis of the water.

The regular system maintenance as per the manufacturer's recommendations is imperative to maintain permanently a water quality suitable with the equipment.

The sediments presence in water is another factor to take into consideration. In such a case, a mud filter has to be added to the system.

 If your water does not meet these quality criteria it may cause a malfunction even the degradation of the appliance. Non complying with the above mentioned requirements may result in voiding the warranty..

N.B : The water hardness is its calcium and magnesium content. The hydrotimetric title (TH) is measured in French degrees (°f): 1°f = 4 mg of calcium + 2.4 mg of magnesium per liter.