



Tech specs

Tecnichal data			224	224 COMBI	225	225 COMBI
Chamber intrenal size with trolley	Width	mm	1200	1200	1200	1200
	Length	mm	1400	1400	1900	1900
	Height	mm	1200	1200	1200	1200
Treatment chamber's burner power BR1		Kw	47	47	47	47
Post-combustionc chamber's burner power BR2		Kw	64	64	64	64
Minimum gas pressure		mbar	25	25	25	25
Power supply			1x230V 50Hz 1Kw	3x400V 50Hz 1Kw	1x230V 50Hz 1Kw	3x400V 50Hz 1Kw
Water flow			1lt/1'	1lt/1'	1lt/1'	1lt/1'
Water pressure		bar	3	3	3	3
Overall dimensions	Width	mm	2145	2145	2145	2145
	Length	mm	2160	2160	2660	2660
	Height	mm	1800	1800	1800	1800

TECHNICAL DESCRIPTION

The process takes place gradually increasing the temperature in the chamber up 390- 420 °C, depending on the type of motors to be treated.

The kiln is equipped with a post-combustion chamber operating at 850 °C for the complete oxidation of the volatile organic compounds present in the fumes which develop during the combustion process, sized to guarantee a residence time of the flue gas than 2 seconds with an oxygen concentration of at least 6%.

This will avoid emission, black smoke and smell.

There is also a system for the registration of temperatures in the combustion chamber and post-combustion chamber.

The kiln has one burner in the treatment chamber and one burner in the post-combustion chamber.

Safety devices:

- overpressure door in the treatment room, which it opens automatically in case of internal overpressure
- limit switch on the door that prevents that the burner ignite the process chamber if the door is not completely closed. The door lock prevents the opening of the same until the temperature in the chamber falls below a preset settable value (usually 100 °C)
- spraying emergency system of water to avoid excessive temperature in the treatment chamber.

The Combi version allows the drying phase to be added to the thermo-destruction process of the impregnation resin of electric motors.

During the drying phase, the postcombustor is normally off.

The transition from operation as an incinerator to that as a dryer takes place by acting on the PLC and involves:

- the exclusion of the postcombustion operation
- the selection of temperatures and times foreseen for the cycle.

The values of the operating temperatures usually adopted are:

- for removing resins on motors with aluminum casing: 390 °C
- for removing resins on motors with cast iron casing: 420 °C
- for resin drying: 150-160 °C.

When operating as a dryer on the platform of the piece holder trolley, a tank, included in the supply, will be used to collect the resin.

The oven is equipped with the following burners:

- the BR1 burner in the treatment chamber is of the monobloc type, with two-stage operation, with a thermal power of 40,000 kcal/h
- the BR2 burner in the post-combustion chamber is of the monobloc type, with two-stage operation, with a thermal power of 55,000 kcal/h.

On one side of the treatment chamber there is the electrical panel with:

- Main switch, start button and emergency stop
- Siemens PLC with 7 "display, in which it is possible to centralize all the operating parameters, the thermoregulation of burners, alarms and set the curves of the temperature rise in the treatment chamber.

IN REASON OF EVOLUTION OF REGULATIONS AND MATERIALS, THE CHARACTERISTICS AS ABOVE REFERRED WILL BE CONSIDERED BINDING ONLY AFTER MANUFACTURER'S CONFIRMATION

You will find more details on:

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