NANNETTI

LABORATORY KILN

# KLN20-13-G

*[the photo is for indicative purposes only]*

## DESCRIPTION

It is a laboratory kiln built with a steel carpentry painted at 180°C with scratch-resistant epoxy paints.
The thermal insulation is provided with ceramic fiber and low density refractory bricks (on the first wall).
The heating parts, made up of coiled wire electric resistances, are placed on 5 sides of the internal chamber.
The use of this kiln is foreseen to carry out tests with materials which do not give rise to toxic gases during the thermal phase and which are compatible with the maximum working temperature of the kiln itself.
In particular, the products to be cooked must not consist of dangerous substances due to the emission of irritating or harmful substances for human health.
The use of flammable or explosive substances must also be avoided.
The kiln is designed and built to be installed in environments with no risk of explosion.

The kiln is designed to be used with the introduction of inert gas[1] and exclusively in gas flushing[2].
Therefore, sealing gaskets are not provided.

The kiln is basically equipped with:
- an exhaust chimney, placed in the upper part
- a manual rotameter for dosing the inert gas at the input
- a connection, equipped with a ball valve, for the gas outlet (to realize the partialisation of the fluxing)

1 other types of gas, that are not inert, are not permitted.
2 the gas introduced and dosed by means of a manual rotameter, at the same time comes out, in a certain dosage, from inside the chamber, so as to create a flow.

## TECHNICAL FEATURES

- heating elements, mounted on 5 sides[1]
- double wall ventilated carpentry
- opening with flag door
- safety micro-switch on the door
- temperature and cooking cycle control by model programmer LUMEL RE-82 [2]
- S-type thermocouple


LUMEL RE-82

1 composed of coiled wire resistors (in Kanthal type alloy), supported by easily removable and replaceable glow plugs
2 it is possible to configure and memorize a total of 15 programs each consisting of a maximum of 15 segments

**Nannetti srl** - via Pacinotti 7 - 48018 - Faenza - (RA) - Italy -
tel. +39 0546 621130 - www.nannettisrl.it - commerciale@nannettisrl.it

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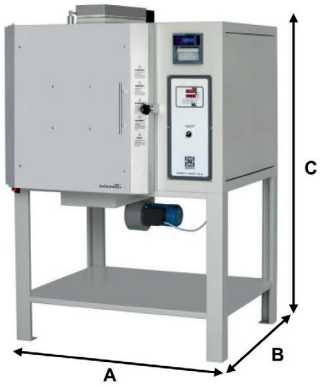


## TECHNICAL FEATURES

| Mod. | Temp. max | Internal dimensions [mm] | | | External dimensions [mm] | | | Power | V + N | Litres | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Width [a] | Depth [b] | Height [c] | Width [A] | Depth [B] | Height [C] | kW | | | kG |
| KLN20-13-G | 1340 °C | 270 | 270 | 270 | 1300 | 1000 | 1830 | 10 | 400 | 20 | 205 |

(all data are not binding, the manufacturer reserves the right to modify them)

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