NANNETTI

DESCRIPTION

This type of kilns consists of a robust steel structure, heat-coated at 180°C with scratch-resistant epoxy paints.

Inside it encloses the thermal insulation composed of low density refractory bricks and preformed ceramic fiber plates highly resistant to temperature and thermal shocks.

The kiln comprises, in different quantities depending on the model, zones with different characteristics, namely:

• Smoke entry and evacuation zone
• Preheating zone
• firing zone
• cooling zone

Material feed system

The tiles are fed into the kiln by ceramic rollers (20 mm diameter and 38.1 mm pitch), which are rotated using a pinion-type system-programmable speed chain.

The towing system is developed to make it possible to disassemble the rollers in a sufficiently fast time.

Heating system

The heating system, depending on the model, is made up of both spiral-wound Kanthal wire resistors and Silicon Carbide resistors, allowing these kilns to operate up to a maximum temperature of 1330°C.

They are inserted from the side of the kiln, allowing them to be easily replaced by simply removing the protective casing; an operation that does not require the intervention of a specialized technician.
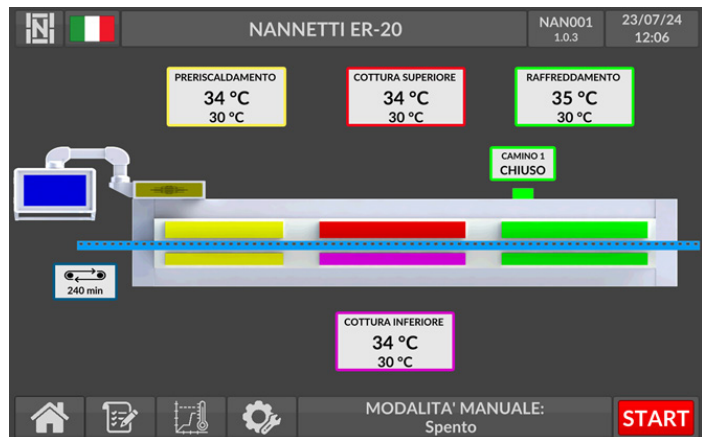
In the cooking zone the upper and lower parts are managed independently.

The cooling zones are managed both manually and automatically in all models, with the exception of the ER15 model.

CONTROL CABINET

It contains the power section and all the equipment needed to control the kiln such as:

• main line switch
• motor saver
• fuses
• control cards
• electrical circuits for starting and controlling the various kiln devices
• static units

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CONTROL PANEL (12" TOUCH SCREEN terminal mounted on articulated support)

Main functions:
- 12" resistive TOUCH display, multilingual
- Storage of up to 30 recipes
- 3 types of recipe planning:
  manual / weekly / scheduled
- creation of the graph of recorded temperatures
- privileged access to basic settings and advanced kiln management settings
- System error display and report bar
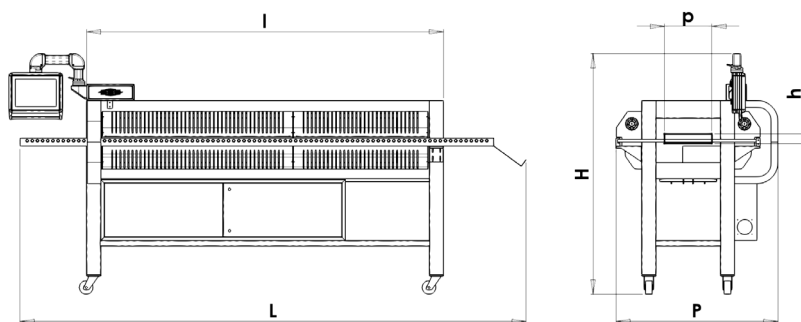- *ETHERNET port for remote control in teleassistance*

Kilns model	Max tile format [cm]	firing cycle [minutes]		PROGRAMMABLES zones			NON-PROGRAMMABLES zones
		from	to	PREHEATING	FIRING	COOLING	COOLING
ER-15/P	15x15	20	400	1	1 (*)	/	1 (**)
ER-20/P	15x15			1	1 (*)	1	1 (***)
ER-30/P	25x25			2	1 (*)	2	1 (***)
ER-45/P	30x30			2	1 (*)	2	2 (**)

*   : the temperature above and below the rollers can be individually programmed
**   : the temperature is displayed on the control panel
*** : the temperature can be detected using an external portable thermocouple

The maximum size of the tile that can be fired is always related to the type of material and the duration of the firing cycle.

MODELS RANGE

TECHNICAL FEATURES								
Mod.	Temp. max [°C]	Internal dimensions [mm]			External dimensions [mm]			Power	V + N	Weight
		[l]	[p]	[h]	[L]	[P]	[H]	kW	N	[kG]
ER-15/P	1330	1500	250	40	2300	1100	1800	13	400	520
ER-20/P		2200			3400	1100	1800	16		680
ER-30/P		3550	400		4750	1220	1800	36		1255
ER-45/P		4530			6160	1200	1800	40		1460

(all data are non-binding, the manufacturer reserves the right to change them)