

**DESCRIPTION**

It is a series of electric kilns used in the thermal processes of metallurgical, chemical, dental and ceramic laboratories.

They have been designed to obtain the best compromise between the heating speed and the operating life of both the resistances and the thermal insulation.

The combination of preformed ceramic fiber panels, low density refractory bricks, and high quality resistances, allow to these kilns a rise in temperature and a cooling that allow them to work in combination with intermittent kilns.

The structure in fire-painted steel with epoxy paints, and support feet with rubber base, make the kilns of the LKN series compact, light and that can be placed on any laboratory table or bench.



The heating part is made up of:

- resistors made with spring-shaped Khantal-type wire and mounted on ceramic glow plugs (LKN-76 and LKN-86 models)
- resistors in "silicon carbide" (LKN-77 and LKN-87 models)
- resistors in "molybdenum disilicide" (LKN-78 / LKN-79 / LKN-88 / LKN-89 models)

In the back there is a chimney for the exit of any gases that could form during the cooking phases, and to help in the cooling phase (*natural type*).



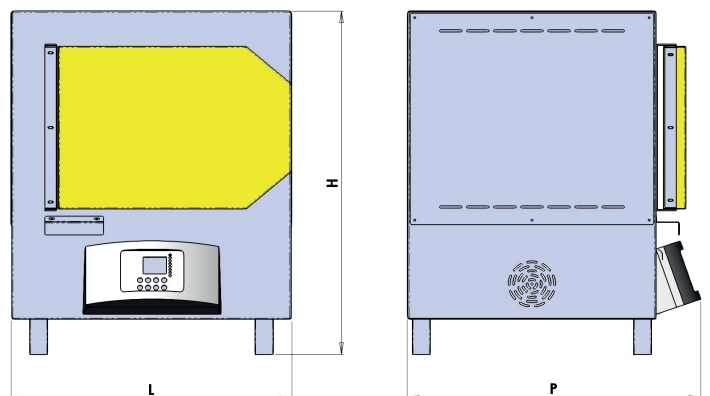
**STANDARD MODELS**

(MAXIMUM RECOMMENDED STAYING AT SET TEMPERATURE, ABOVE 1000°C, IS 60 MINUTES)

**PANEL CONTROL**  
(models LKN 76 / 86)



The temperature and firing cycle control is entrusted to a microprocessor programmer mod. K1PX, with which it's possible to memorize 4 cooking cycles, each consisting of 8 steps.



**TECHNICAL CHARACTERISTICS (brick kilns model)**

Mod.	Temp. max °C	Internal dimensions [mm]			External dimensions [mm]			Power kW	V + T	Weight [kG]
		Width [l]	Depth [p]	Height [h]	Width [L]	Depth [P]	Height [H]			
LKN-76	1350	160	160	130	550	500	750	2	230	78
LKN-86		200	300	160	620	750	780	4		107

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

## HIGH TEMPERATURE MODELS

(MAXIMUM RECOMMENDED STAYING AT SET TEMPERATURE, ABOVE 1000°C, IS 15 MINUTES)

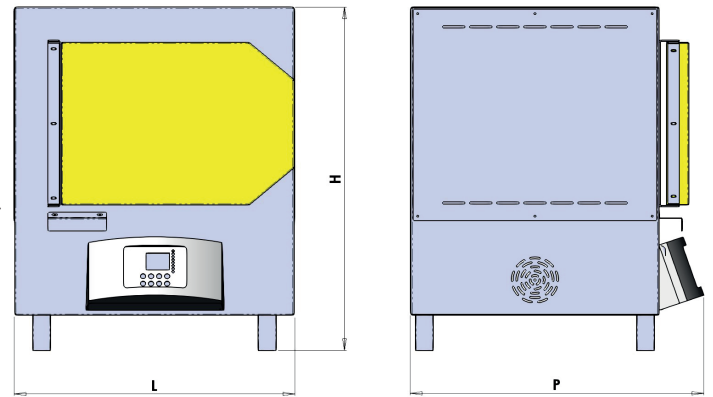
These models are ideal for sintering technical ceramics, for example for sintering zirconium oxide materials; T max 1600 °C, 1750 °C or 1800 °C. They are built with a double-walled body with additional free air cooling to keep the outside temperature low.

### CONTROL PANEL

(models LKN 77 / 78 / 79 / 87 / 88 / 89)



The temperature and firing cycle are controlled by a Lumel RE 82 microprocessor programmer. With this type of programmer you can configure and memorize a maximum of 15 programs each consisting of a maximum of 15 ramps.



### TECHNICAL CHARACTERISTICS (fiber kilns model)

Mod.	Temp. max °C	Internal dimensions [mm]			External dimensions [mm]			Power kW	V + T	Weight [kG]
		Width [l]	Depth [p]	Height [h]	Width [L]	Depth [P]	Height [H]			
LKN-77	1500	160	160	130	650	550	850	4	230	104
LKN-78	1600	160	160	180	650	550	900	4		120
LKN-79	1700	160	160	200	650	550	920	4		140
LKN-87	1500	220	300	150	740	800	870	6		180
LKN-88	1600	200	300	180	720	800	900	6		198
LKN-89	1700	200	300	200	720	800	920	6		220

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

### OPTIONAL

- PC management software (only for LKN 77/78/79/87/88/89 models)