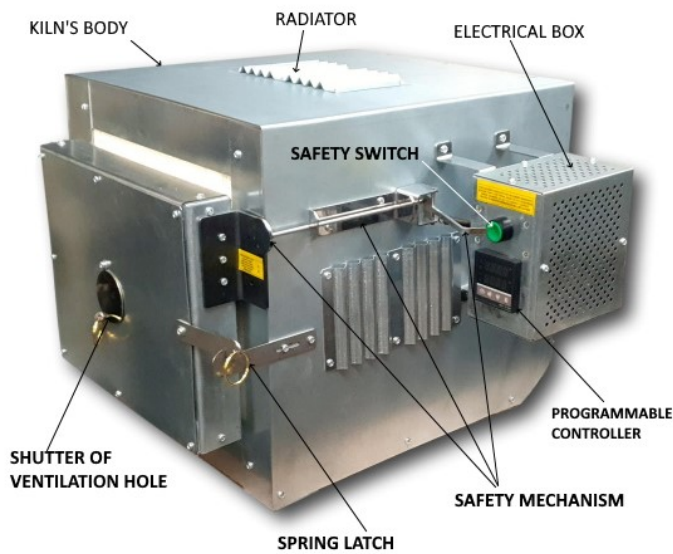


## R-1100C ELECTRIC MUFFLE KILN USER MANUAL

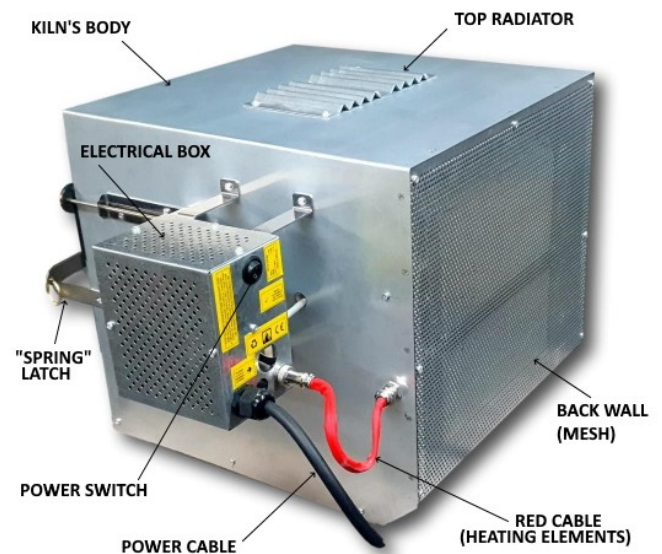
### PRODUCT INTRODUCTION:

THIS R-1100 (2,012°F) ELECTRIC MUFFLE KILN WITH A DIGITAL TEMPERATURE CONTROLLER AND 11.5 CUBIC LITRE CHAMBER IS SPECIFICALLY DESIGNED TO WORK WITH MANY TYPES OF MATERIALS, INCLUDING: GLASS, WAXES, METALS, CLAYS, ENAMELS, STONES AND OTHER MATERIALS WITH FIRING TEMPERATURES OF UP TO 1,100°C/2,012°F. FOR YOUR SAFETY THIS KILN HAS A SAFETY MECHANISM THAT WILL DISCONNECT ITS POWER SUPPLY FROM BOTH THE RIGHT AND LEFT HEATING ELEMENTS IF THE DOOR IS OPEN OR HAS NOT BEEN PROPERLY CLOSED. IT ALSO HAS ONE HOLE WITH A STAINLESS STEEL SHUTTER ON THE DOOR FOR VENTILATION, A DIGITAL OVER/UNDER-TEMPERATURE SAFETY SYSTEM FOR MAINTAINING A SINGLE TEMPERATURE DURING THE ENTIRE SOAKING PROCESS AND AN INTERNAL SMOOTHING CIRCUIT TO CORRECTLY READ AND STABILISE ELECTRICITY FLUCTUATIONS, WHICH IS ESSENTIAL FOR MOST FIRING PROCESSES.

**Pic. 1 FRONT VIEW:**

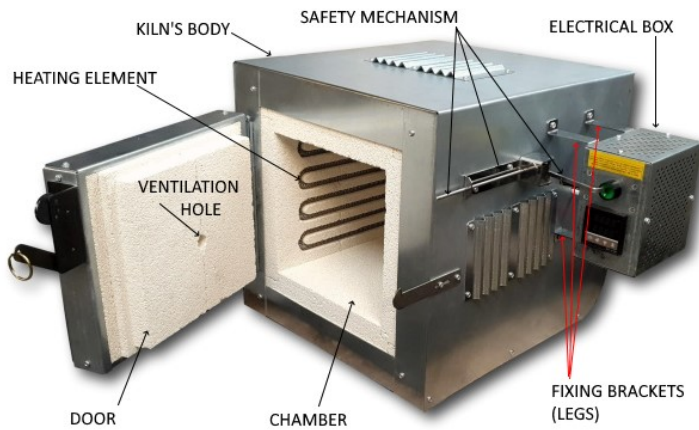


**Pic. 2 BACK VIEW:**

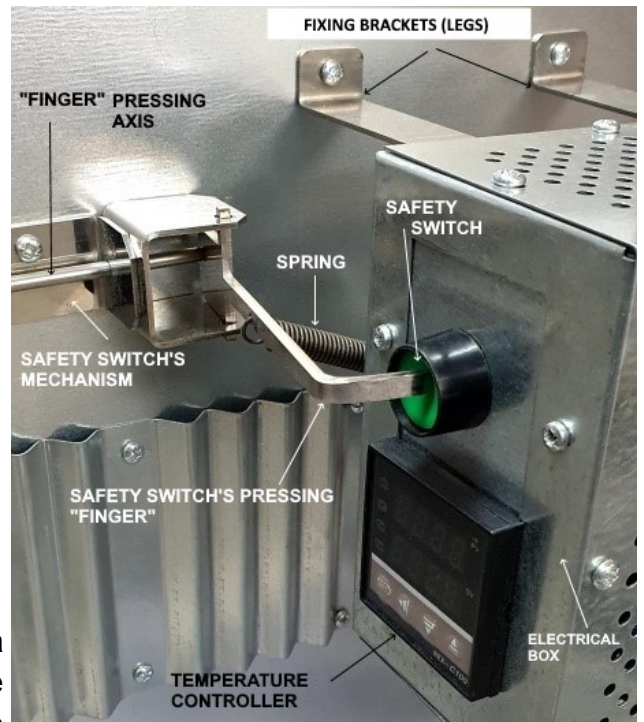


### TECHNICAL SPECIFICATION:

MODEL:	R-1100C	CALIBRATION:	YES
INPUT ON REQUEST:	115 or 230 V +/-10%	SOAKING PROCESS ACCURACY:	+/- 1°C
POWER:	2,700 WATT	SAFETY MECHANISM:	Yes
MAXIMUM HEATING TEMPERATURE:	1,100°C / 2,012°F	CHAMBER MATERIAL:	MUFFLE
ESTIMATED HEATING TIME TO 1,100°C:	60 MINUTES	VENTILATION SYSTEM:	DOOR HOLE
CONTROLLER TYPE:	P.I.D. TWO-LINES	CHAMBER DIMENSIONS MM (INCH):	200 (w) x 200 (h) x 290 (d) (8" x 8" x 11.5")
CONTINUOUS WORKING TIME AT 1,000°C+:	12 HOURS	KILN DIMENSIONS MM (INCH):	360 (w) x 360 (h) x 450 (d) (14" x 14" x 18")
CONTINUOUS WORKING TIME BELOW 1,000°C:	24 HOURS	WEIGHT:	30 KG



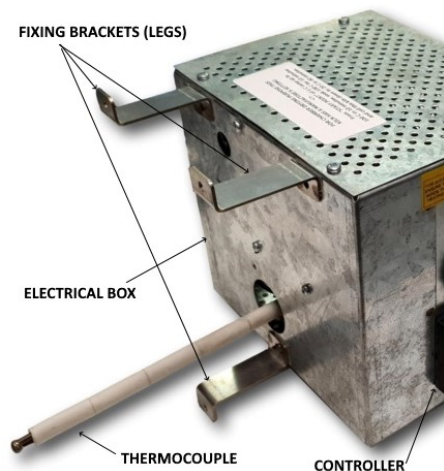
Pic. 3



Pic. 4

## **PREPARATION:**

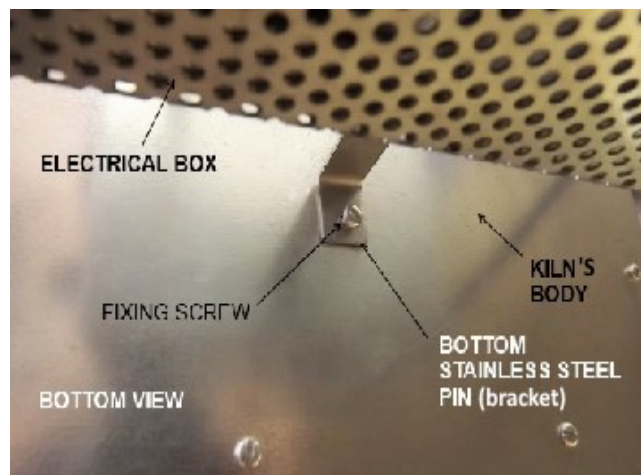
- Remove the kiln from its original box.
- Put the kiln on a heat-resistant worktop such as a metal stand, stone, bricks or ceramic tiles. Please note that the worktop should be very stable and be able to hold 40-50 kg of weight, for your safety.
- Open the kiln's door and carefully take out all the accessories and packing materials from the chamber.
- Now start to assemble the kiln by attaching the electrical box (**Pic. 3**) to the kiln's body. To do this, take the electrical box (**Pic. 5**) with 3 welded stainless-steel brackets (legs) and screw them to the body of your kiln as shown in **Pic. 7**.



Pic. 5:

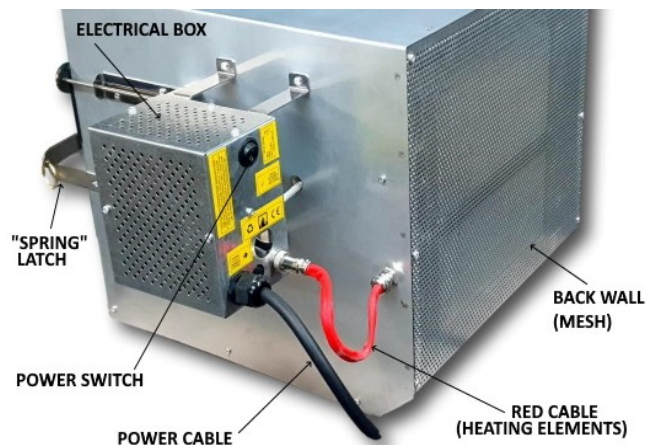
Pic. 6:

If this door does not yet have another type of latch installed, please find the "spring" latch in the pack and attach both parts to the kiln's door/body as shown on **Pic. 6**.



Pic.7

Pic. 8



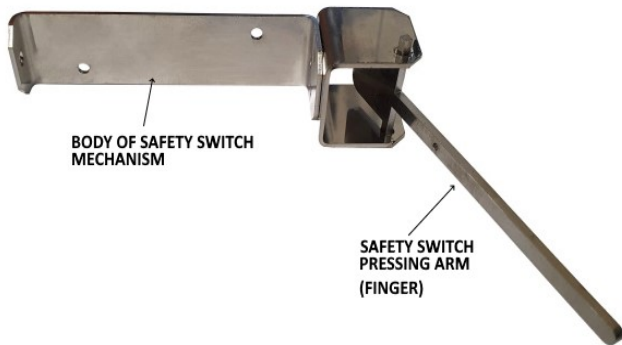
Now you can connect the electrical box to the kiln's heating elements using the special RED cable (**Pic. 8**) and then attach the safety-switch mechanism (see next page).



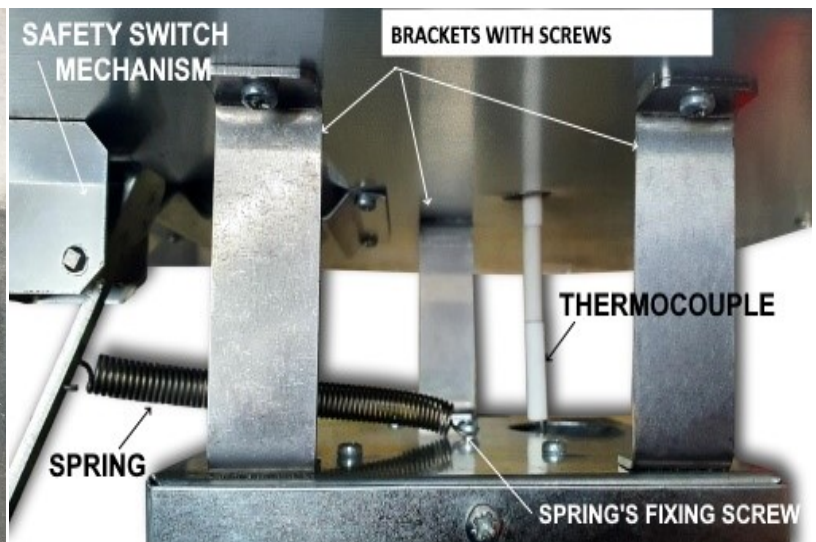
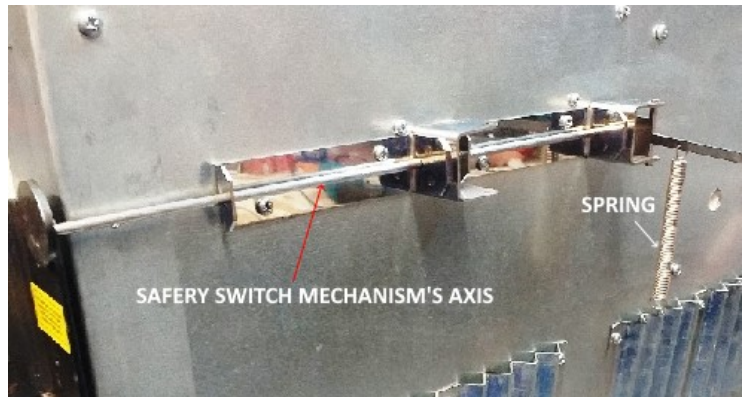
The safety-switch mechanism is important for your safety; it will disconnect all the heating elements inside the kiln's chamber if your kiln's door is open or has not been properly closed. This reduces the risk of electric shocks following any accidental contact with the heating element(s) by metal tongs, tweezers, other accessories or firing object(s). To attach the safety-switch mechanism:

- ◆ Take the ready-to-use mechanism (**Pic. 9**) and stainless steel axis from its pack and attach it to the kiln using two small screws (supplied) as shown in **Pics. 10, 11 and 12**.

Pic. 9



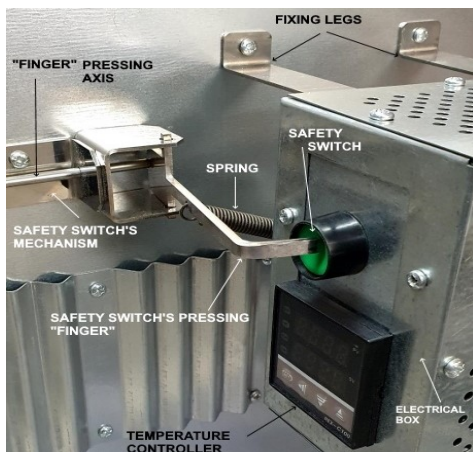
Pic. 10



Pic. 11

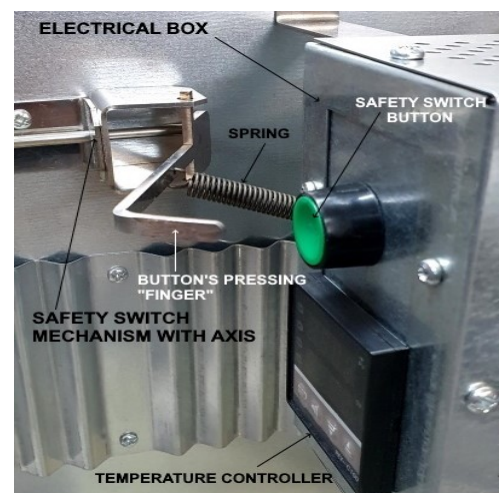
Pic. 12

- ◆ Now connect a tension spring (supplied) between the safety-switch mechanism's "FINGER" (**Pic. 12**) and the special fixing screw on the side of the electrical box facing the kiln (marked with a yellow label) or to the bottom stainless-steel bracket/leg.
- ◆ **IMPORTANT!** After assembling, please ensure that the "FINGER" (**Pic. 9**) firmly PRESSES on the SAFETY SWITCH when the door is OPEN (**Pic. 13**) and completely RELEASES the SAFETY SWITCH when the door is CLOSED (**Pic. 14**).



Pic. 13

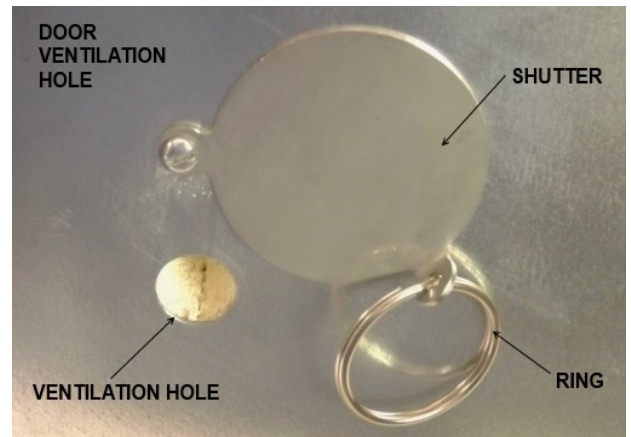
Pic. 14



- ◆ No matter which type of door lock has been installed on your kiln: you can easily open or close the door as shown in **Pic. 15**:

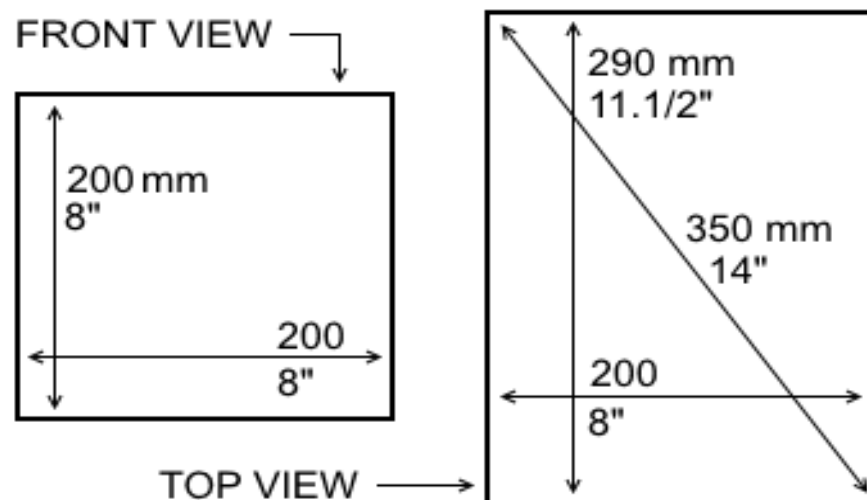


**Pic. 16:**



- ◆ Now your kiln is assembled. Close the shutter on the door (**Pic. 16**) to avoid heat leaking out from inside the chamber. Connect the mains cable to a power supply to start your work.
- ◆ When using the kiln for the first time, it must be heated up to approximately 100°C (factory setting) to allow any water to evaporate from the chamber. Please do not be alarmed if light smoke and/or a smell appears (when using the kiln for the FIRST time). This is normal for new kilns as any water, grease or oils burn out from the heating elements, shelves, chamber and from inside the kiln. It should not happen again after the first time it is heated. If your kiln is used less than once a month then please repeat this process each time you use it.
- ◆ Please also note that the temperature shown on the controller is the temperature around the thermocouple inside the kiln's chamber. You may have to wait up to two hours for the inside of your kiln to heat up fully and reach the same temperature everywhere inside the chamber.
- ◆ USEABLE CHAMBER DIMENSIONS: Pic. 19 shows a FRONT AND TOP VIEW of the kiln's chamber (inner).

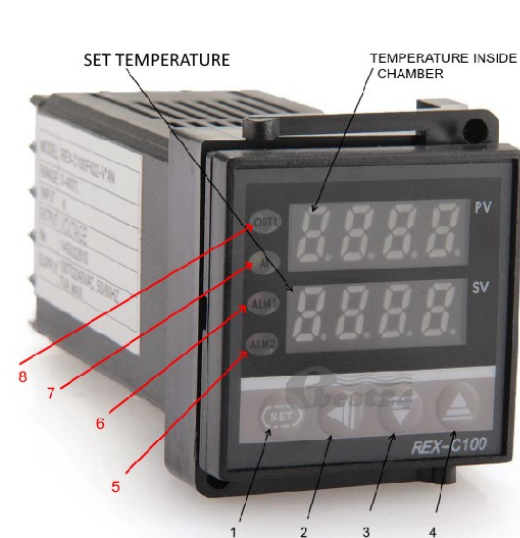
**Pic. 19**



## **TEMPERATURE CONTROLLER:**

The temperature controller has already been set up to reach a highest possible temperature of 1,120°C (2,048°F) by the manufacturer. If you want to re-set this controller for a different temperature please follow this short set of instructions or check the controller's user manual. To start, short-click once on the "SET" button. The bottom line of the controller (which shows you the target-temperature) will start flashing.

### Controller information:



1. "SET" - setting/confirmation button (used for setting all of the controller's parameters).

2. "Left Arrow" - segment selector (to choose from four segments).

3. "Down Arrow" - decrease (used to set the required temperature).

4. "Up Arrow" - increase (used to set the required temperature).

### ***Useful tips:***

This controller's 4-digit bottom line allows you to quickly change the required temperature. When you click on the "SET" button the bottom line will start flashing. Use the "LEFT ARROW" button first to choose the required SEGMENT to change. Then use the "UP" (+) and "DOWN" (-) arrows to change the temperature.

You'll have about 20-25 seconds to change each parameter. Please do not worry if you take too much time and the controller resets and starts displaying on top line the current temperature inside the chamber. Simply restart the programming process by clicking on the "SET" button again. If you are a beginner and are having difficulty resetting the temperature controller, please feel free to contact the manufacturer or diller for FREE help with this matter anytime during the warranty period.

You can also find detailed information about the controller's settings in the controller's user manual, but we do not recommend changing the manufacturer's setting yourself (except for the temperature) as this can cause the factory settings (calibration) to be lost and may result in you needing to fully reset and/or re-calibrate the controller in the future, which is NOT COVERED BY THE WARRANTY.

**When you have finished re-programming this controller, short-press the "SET" button for the new setting to be remembered and your job to start.**

**Your controller will remember the last temperature and will always try to reach this temperature in future until it is changed again manually.**



**SAFETY INSTRUCTIONS and USEFUL TIPS FOR BEGINNERS:**

- ⇒ Please make sure that any item(s) you place inside the chamber are not touching the heating element(s) even when the door is closed.
- ⇒ It is always best to conduct some tests on a small quantity of your firing material before you fire your item(s).
- ⇒ Using this kiln at temperatures higher than 1,100°C may cause a problem with the heating element(s) and/or with the kiln's metal body that is NOT covered by the warranty.
- ⇒ This kiln MUST be positioned on a level surface that will not be damaged by heat. A masonry or concrete floor is recommended, but other protective materials like refractory bricks or ceramic tiles/sheet may be used. For a small additional charge this kiln can also be supplied with a set of two shelves and a metal stand to be placed on a heat-sensitive worktop.
- ⇒ Always make sure that the door is closed properly for the heating elements to be turned on and in order for the highest possible temperatures to be reached inside the chamber.
- ⇒ Always use heat-resistant gloves and long metal tweezers to remove or place item(s) from/into the kiln.
- ⇒ This kiln should be kept away from all inflammable materials and other nearby heating devices.
- ⇒ When opening the door at temperatures higher than 200°C (392°F), always maintain as much distance as possible between you and the hot chamber. Please also wear dark glasses to avoid problems with your eyes.
- ⇒ Because of the high temperatures that this kiln can reach, you should never leave it unattended when it is in use.
- ⇒ Never touch the kiln's metal body and shutter on the door without gloves on as these can burn your hands.
- ⇒ KEEP OUT OF REACH OF CHILDREN.
- ⇒ Disconnect the kiln from its power supply when not in use.

**WARNING: This is an electrical, often extremely hot piece of equipment: always follow any applicable health and safety rules and regulations for electrical equipment and hot work in your country.**

**MADE IN THE UK**

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