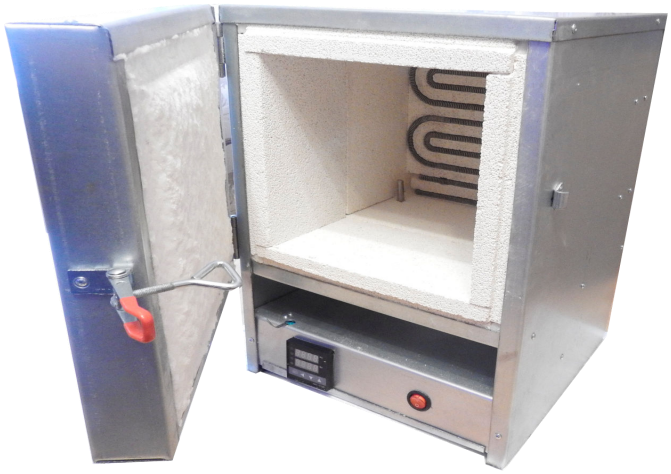


PLEASE READ FIRST

SAFETY INSTRUCTIONS

Please follow all Health and Safety rules and regulations when working with hot objects.

- Make sure that the kiln door is closed properly. Please keep in mind that the kiln has a security switch under the door that disconnects the kiln from its power supply when the door is open.
- Do not attempt to cool the kiln down quickly by leaving its door open – this can lead to small cracks forming inside the chamber.
- This kiln should be placed on a heat resistant surface, e.g. masonry or concrete. Placing it on the floor may also be safe, but other protective materials like metal or ceramic top might still be needed.
- Always use heat resistant gloves and tweezers to remove firing objects from the kiln.
- The kiln should be kept away from all inflammable materials such as curtains, shredded paper, *etc*.
- Never leave the kiln unattended when it is in use due to the high temperatures it can reach.
- **KEEP OUT OF REACH OF CHILDREN.**
- Do not heat the kiln continuously for longer than the maximum time provided in the technical description of your kiln model. 90% of standard heating/firing processes take less than 2 hours.
- Disconnect the kiln from power supply when it is not in use.

PRODUCT DESCRIPTION:

A Tabletop Kiln with a large size chamber, single element and a digital PID temperature controller or 32 step programmable temperature controller is especially designed to heat up all types of metals, clays, glass and enamels. The maximum working temperature inside the chamber is 1100°C. The digital electronic controller of the kiln allows precision regulation of temperatures between 0°C and 1100°C +/-1°C. The maximum temperature can be reached in approximately 180 minutes. This tabletop kiln is perfect for jewelry-making. You can work with many of the popular materials such as GlasClay, PMC silver clay, Accent Gold, Art Clay metal clays, BullsEye glasses, Dichroic glasses, Enamels, Image Transfer Solution, Metal Clay Veneer, Prometheus bronze clay, ProCopper clay, SilverEtch etc. It has a safety switch.

- Max. Power - 2500 Watt.

- **Supplied without plug. Should be connected by separate line to 16A (minimum) fuse (circuit breaker).**

- Power cable – 3,0 Meter.

- Equipped with a secure switch to cut the power supply off when door is open.

- Easy to maintain. Made from high quality materials to include galvanized Steel, ceramic bricks and wool insulations.

- Internal chamber dimensions (mm) – (W)270 x (H)200 x (D)290.

- Kiln dimensions (mm) - (W)350 x (H)410 x (D)400.

- Maximum heating temperature - 1100°C.

- Estimated heating time (1100°C) - 180 minutes.

- Easy-to-use latch toggle clamp handle.

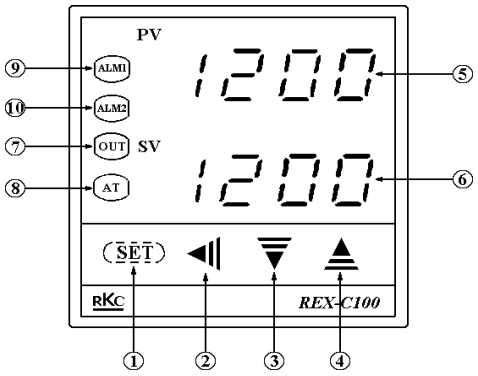
- Solid state relay to reach a precision temperature - +/- 1°C.

- Weight - approx. 23 kg.

FIRST TIME USE:

- Remove the kiln from its original packaging and connect it to the power supply.
- Before using the kiln for the first time please heat it up to 150°C and hold this temperature for approximately 10 - 15 minutes to allow water, oils *etc*. to evaporate from the chamber (NOTE: you might notice a little smoke or light smell during the first heating). Then, once you let the kiln to cool down, you can start working on your first project. If the kiln is used less than once per month, please repeat this process every time before the kiln is used.
- When opening/closing the door, please remember to wear heat resistant gloves. You should also hear a faint click of the security switch.
- When you switch the kiln on, the digital controller will start showing the current temperature inside the chamber.
- In order to work with other temperatures, the digital electronic controller needs to be set up according to the temperature you require.

1. NAME OF PARTS



CD Set (SET) key
- The set-value thus changed is entered
- Parameters in the parameter setting mode are selected in due order.
- Can select PV / SV display mode, SV setting mode, and parameter setting modes.

@ Setting digit shift key
- Used when the cursor (brightly lit) is moved to the digit whose number needs to be changed for set-value change.

® Set-value decrement key
- Used when the number needs to be decreased for set-value change.

® Set-value increment key
- Used when the number needs to be increased for set-value change.

@ Measured-value (PV) display unit [Green]
- Displays measured-value (PV)
- Displays a parameter symbol in the parameter setting mode.

® Set-value (SV) display unit [Orange]
- Displays set-value (SV)
- Displays set-value corresponding to the parameter symbol displayed on the measured-value (PV) display unit.

⑦ Control output (OUT) lamp [Green]
- Lights up when the control output is turned ON.

⑧ Auto-tuning (AT) lamp [Green]
- Flashes during auto-tuning.

⑨ First alarm (ALM1) lamp [Red]
- Lights up when the first alarm is turned ON.
- When a control loop break alarm (LBA) is selected as the first alarm, this lamp lights up.

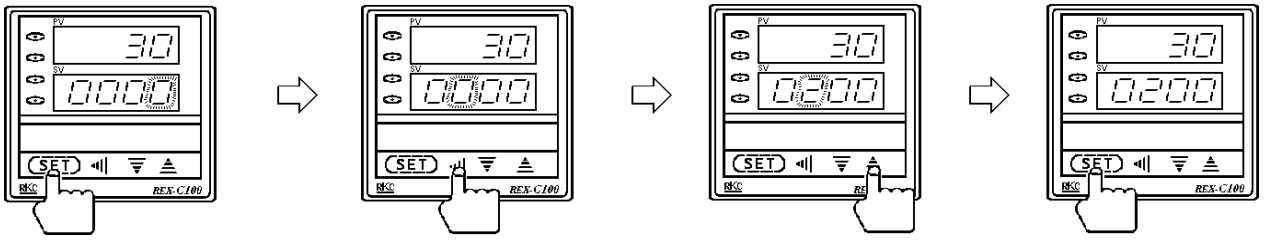
⑩ Second alarm (ALM2) lamp [Red]
- Lights up when second alarm is turned ON.
- When either a heater break alarm (HBA) or control loop break alarm (LBA) is selected as the second alarm, this lamp lights up.

- **Parameter setting procedure**

Setting set-value (SV)

Following is an example of setting the set-value (SV) to 200°C. (PV : 30°C)

CD Set to the set mode @ Shift of the digit brightly lit ® Set-value increase or decrease ® Set-value entry



Press the SET key to enter the SV setting mode. The digit which lights brightly is settable.

Press the ◀|| key to shift the digit which lights brightly up to the hundreds digit.

Press the ▲ key to set "2".

After finishing the setting, press the SET key. All of the set-value digits light brightly and as a result the Controller returns to the PV/SV display mode.

Set-value increase or decrease Example : When a temperature of 199°C is changed to 200°C.

Press the ◀|| key to shift the digit brightly lit to the least significant digit. Press the ▲ key to change "9" to "0", thereby obtaining 200°C. The same applies to set-value decrease.

Minus (-) value setting Example : For changing 200 to -100.

Press the ◀|| key to shift the digit brightly lit to the hundreds digit. Press the ▼ key to decrement figures in order of 1 0 -1.