

SUPER PETIT

(For Art Clay Series)

ART CLAY™

INSTRUCTION MANUAL

ITEM: **Electrical Kiln "SUPER PETIT"**
Type: **Kiln with digital thermostat**

Sales Agent:

Aida Chemical Industries Co., Ltd., Overseas Division
6-28-3 Minami-cho, Fuchu city, Tokyo, Japan, 183-0026
Phone +81-(0)42-366-8751 / FAX +81-(0)42-366-8707

OEM Manufacturer:

Shirota Kiln Industries Co., Ltd.
2-55-3 Wakamiya Nakano-Ku, Tokyo, Japan, 165-0033

1. Preventing Mechanical Problems

Safety instruction

Usually, lack of safety awareness, improper use and/or carelessness of maintenance cause mechanical problems. These can be prevented by reading the instructions carefully before using.

Notice

Please note: manufacturer warranty is not valid for overseas models (other than 100V model). The manufacturer and seller of this product are also not responsible for any trouble, damage and fatal accidents from use of the kiln in the following conditions as well.

- 1) If the kiln was not delivered, maintained and/or repaired by the manufacturer or manufacturer's designated company.
- 2) If any damage was caused by other devices or equipments use.
- 3) If modified, maintained and/or repaired with anything other than the manufacturer's original parts or materials.
- 4) If the user did not follow the instruction manual.
- 5) If not used under appropriate conditions, such as not plugged into an appropriate voltage outlet, placing the kiln on an unstable surface or nearby inflammable materials, etc.
- 6) If not used for firing Art Clay Series and/or its combination materials recommended by your Art Clay dealer.

2. For Your Safety

Positioning of the Kiln

- 1) Please do not place the kiln on an inflammable or unstable surface. Do not have any inflammable materials within 30 cm from the kiln as it may cause a fire risk. Keep a space of more than 1m (3 feet) above the kiln at least.
- 2) Do not place the kiln near a sink or humidifier. It may cause a short circuit and you may get electric shock. Make sure to ground.
- 3) Please check that the voltage of your electric outlet matches

the kiln voltage. Do not use any other high voltage electric devices at the same time unless your electric amperage is rated for such electric consumption.

- 4) If you notice loose plug, or heat in the electric cord, stop using the kiln, and consult your dealer.
- 5) Please do not damage the electric cord by twisting, placing under or in between heavy object(s).
- 6) Please take out the plug from the electric outlet after use.

CAUTION!

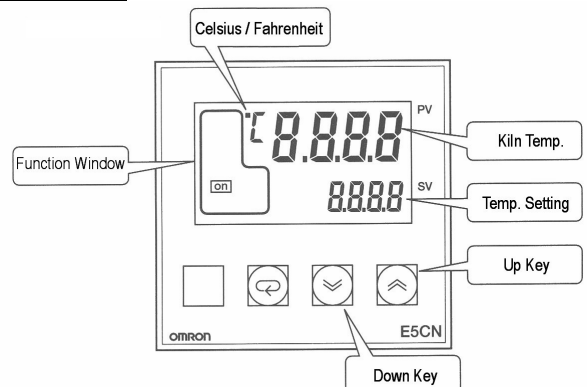
- 1) As it may cause an electric shock, do not touch the muffle (heating element) in the chamber. If you notice the muffle is exposed, turn off the main switch and unplug. Consult with your dealer.
- 2) Be careful of burns. The kiln body gets to a very high temperature during operation.
- 3) Keep children away from the kiln while plugged in or in use.
- 4) Please do not put any metal object through the door hole or ventilation area as it may cause damage or an electric shock.
- 5) Please do not move the kiln while in use.
- 6) Plug directly and firmly into an electric outlet. Do not use an electric tap/adaptor, and do not bundle the cord.
- 7) Turn off the main switch after use.
- 8) Unplug if you do not use for a long time. Make sure that the main switch is turned off before unplugging.

3. How to Use

Operating Procedure

- 1) Insert the plug firmly into the electric outlet.
*Please check the voltage once again, and use a step-up/down transformer if necessary.
- 2) Turn on the main switch, and wait for 5 seconds.
- 3) Press "Up Key" or "Down Key" to set temperature.
Press "UP Key" (UP ↑ Arrows) and "Down Key" (DOWN ↓ Arrows) to adjust the temperature setting.
- 4) Set the "HEAT RATE" switch to "HI" or "LO" for a preferable ramping speed.
"HI" position is for a fast ramping speed.
(Ex: It takes about 20 minutes to reach 800°C)
"LO" position is for a slow ramping speed.
(Ex: It takes about 90 minutes to reach 800°C)
*Please refer to Page 5 for ramping curves for "HI" and "LO" position.
- 5) Turn the HEAT RATE switch to "OFF" position, before turning off the MAIN switch.

Digital Display



NOTE

- ▶ When you turn on the kiln, the temperature display may at first indicate a temperature higher than the actual room temperature, but it is functioning normal.
- ▶ When you use the kiln for the first time, please make sure to first operate the kiln at 800°C for 1 hour to evaporate moisture in the chamber material.
- ▶ Use enclosed fiberboard or ceramic plate for firing.

Specification (For Japanese Model)	
Electric capacity	100V 4A 400W *1
Outside dimension	W185×D210×H225mm
Inside dimension (chamber size)	W85×D120×H60mm
Weight	3.5kg
Temperature range	0~1000°C*2
Temperature control	Digital temperature control

*1 for 220-240V / 4A / 880-960W, 110 V / 4A / 440W

*2 temperature setting only goes up to 999°C

4. Firing instruction and caution for Art Clay Series

Drying

- ▶ Firing piece must be completely dry before firing.
- ▶ While kiln temperature is between 650 °C and 900 °C, you may place a drying piece on top of the kiln for drying. You can also use a hot air hair dryer to dry. For a natural drying, the piece needs to be left for more than 24 hours. However, each Art Clay product has a different drying time, so please see each instruction sheet enclosed in the package.

Firing method

- ▶ Art Clay Silver 650 Series (Melting point: 960°C)

Set the kiln at 650°C and put dried piece into the kiln. Reaching to 650°C, hold for 30 minutes* to complete firing. Then, turn off the HEAT RATE switch, and take out the piece after the temperature drops below 100°C.

- ▶ Art Clay Gold/K22 (Melting point: 1055°C)

Set the temperature at 990°C and put the dried piece into the kiln. When reaching at the 990°C, hold for 60* minutes. Turn off the HEAT RATE switch, and take out the piece after the temperature drops below 100°C.

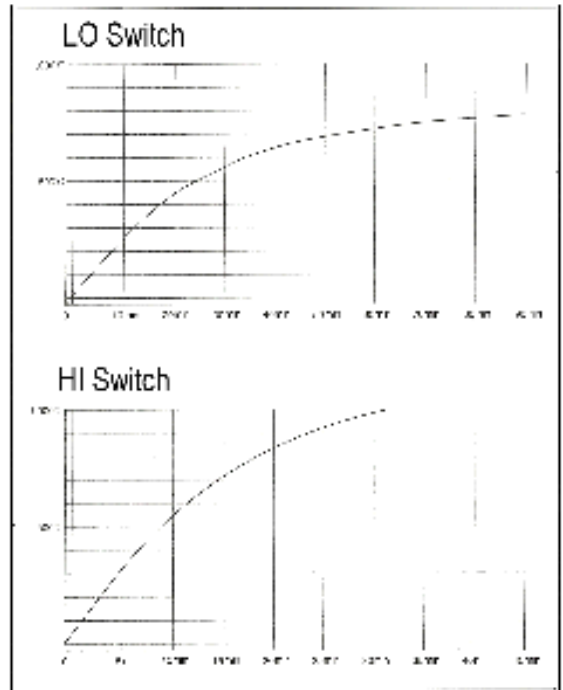
* As each Art Clay Series product has different firing temperature range and holding time, see each instruction sheet enclosed in the package, or fire accordingly to Art Clay text books.

Caution

- For firing Art Clay Series in the kiln, please make sure to place the piece on a fiberboard.
- Please wear heat-resistant glove and take out the fired piece with the fiber board from the kiln by using tongs (enclosed in the kiln box).
- The fired piece and fiber board after firing are extremely hot. Place them on a heat-resistant material such as ceramic brick or fiber brick to cool down first.
- For firing 3-dimensional pieces or thin pieces, use fiber cloth to support during firing to prevent deforming.
- Please read instructions of each clay type before firing.

5. Ramping Curve

Numbers at vertical axis indicates the “TEMPERATURE” and horizontal axis indicates the “TIME” (minutes).



6. Additional Knowledge

Caution of the digital control

- ▶ Temperature control been adjusted for firing Art clay series.
- ▶ “Level key” and “Mode Key” on the controller panel will not be used for firing Art clay series. If you accidentally press those keys, the indication will change. In that case, please reset to the original setting by turning the main power switch off and then back on.

First use

- ▶ Ventilate well for first time use as you may notice some fumes. This is caused by the binding material of the chamber burning off. The fumes are harmless. After the first time use, you will not notice again.
- ▶ You may notice that brand new kilns show reddish brown stains in the chamber. This is caused by a production test, and there is no problem for use. After the first firing, the color will disappear.

How to use the fiber paste for repairing

- ▶ The white paste in the plastic bag is for repairing cracked or damaged chambers. Fill up the cracked or dented area with the paste using a spatula or fingertips. Please dry more than 12 hours before operating again. Use a rough grit sandpaper to smooth the filled area.

Translated and prepared by: Aida Chemical Industries Co., Ltd.
For updated information of Art Clay overseas distributors, please visit our website. www.artclay.co.jp
Art Clay manufacturer: Aida Chemical Industries Co., Ltd.
E-mail: overseas@artclay.co.jp