

PROMETHEUS PRO-1

Multi-Functional Kiln Instruction Guide



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Thank you for preferring **PROMETHEUS** Kilns. Our kilns are designed to give you best service for many years.

Please read this Instruction Guide carefully. This will answer your many questions to provide you the most enjoyment from your kiln without damaging your kiln and harming yourself.

(1) TECHNICAL SPECIFICATIONS:

Volts: 220 V

Amps: 3.2 A

Watts: 700 W

Temp. Control: Digital

Max. Temp: 1000 °C

Outer Dimensions: 22.5 cm(W).x 22.0 cm(D).x 28.0 cm(H)

Inner Dimensions: 11.5 cm(W).x 13.0 cm(D).x 7.0 cm(H)

Weight: 5.7 Kg.

PROMETHEUS Pro-1 is a Multi-Functional Kiln for Hobbyists and Professionals as well. ENAMELLING; Firing SILVER CLAY and GOLD CLAY works, small articles of CERAMICS; GLASS-FUSING, GLASS BEADS and GLASS MOULDING; ANNEALING and HARDENING of SILVER, GOLD and OTHER METALS are some of the fields **Pro-1** can serve you.

(2) WHEN YOU RECEIVE:

Inspect Your Kiln: Check the Bill of Lading number and be sure the number on the parcel you would take delivery of, is the same. Before signing the receipt document, check the carton for damage. (Ruptures, holes, crushed, etc.) If you see any damage on the carton, you can return by refusing the shipment or accept it with the drivers note, on the Bill of Lading and inform our company or our dealer who has delivered the parcel to you, by fax or e-mail. Inspect the outer surfaces of your kiln, open the kiln door and inspect the heating chamber. If you observe any damage, inform our company or our dealer who has delivered the parcel to you, by fax or e-mail.

Save the Shipping Carton: If you would take your kiln to vacation or seminars or return to factory for repairs, this carton will provide maximum protection during transportation. If you haven't save the carton, place your kiln, the door up, back side down, on a soft surface; support it at the sides. Vibration during travel may damage your kiln.

(3) IMPORTANT SAFETY RULES

An Electric Kiln is as safe as your iron if these basic safety rules are followed:

- Locate your kiln in a good ventilated, sheltered place.
- Put your kiln on a fire-proof surface, minimum 30 cm away from doors, walls and apart from any curtains or combustible materials.
- Unplug your kiln, when not in use or before servicing.
- Do not touch hot surfaces.
- Avoid unsupervised children entering your work-shop.
- Keep the main cord away from the hot surfaces of your kiln.
- Do not touch heating element with anything. This may cause **SERIOUS ELECTRIC SHOCK!**
- Do not leave your kiln unattended while firing.
- Wear protective glasses when you look into hot kiln.
- **TURN OFF** the kiln before opening the kiln door, when loading or unloading.
- Wear thick work gloves when loading or unloading your kiln.
- Do not fire any material which you wouldn't know how it behaves at high temperatures. (Explosion, dangerous fumes, etc. can be caused.)
- Do not keep food at your working area.

(4) SETTING UP:

Electrical Installation: Do not use an extension cord. If it is essential, use not thinner than 3 X 0.75 mm. and not longer than 500 cm. Variations at the voltage may decrease or increase the heating rate of kilns. If the voltage drops to low, the kiln may not even reach the desired temperature.

Where to Locate:

- 1- Locate your kiln in a dry, good ventilated, sheltered place.
- 2- Do not keep any combustible materials in the kiln room. (paints, solvents, gasoline, etc.)
- 3- Place your kiln minimum 30 cm. away from the walls and far from curtains, window frames, etc.
- 4- Do not allow the temperature of your kiln room to exceed 40 °C. Use air conditioner or fans, to lower the temperature if necessary.
- 5- Although your kiln does not give dangerous heat to the surface it is located on, we recommend it to be sat on a fire proof plate about 50 X 50 cm., to provide a safe place to put hot articles removed from the kiln.
- 6- Keep the main cord apart from the kiln.

(5) RUNNING THE KILN

Firing Temperature Adjustment



At the lower part of the front face, you see the Control Panel. On the left side of the Panel, is the 3-Position-Switch. When the switch is in the DISPLAY Position, on the DIGITAL TEMPERATURE CONTROLLER, at the upper line, in a few seconds you can read the present temperature of the heating chamber of your kiln. And at the lower line, the firing temperature already set. To adjust the working temperature according to the materials you would be working with, just do the following steps:

Press "Mode" key for 2 seconds and you will see SU displaying on the screen. Press the "Left" arrow button once, you will see a digit of the number at the lower line, blinking. You can leave it as it is or change it by pressing "up" and "down" arrow keys. Then move the blinking to another digit by simply pressing the "Left" arrow and do the same as before. When you have reached your target temperature, just press "Mode" key for 2 seconds and your adjustment is completed. Your kiln will start firing to the target temperature you set when you turn the switch to HEATER position.

Starting To Heat: The thermal isolation of your kiln contains some cellulose type bonding materials. During the initial heating, you will notice some fume or odor similar to burning paper. It is harmless, as you would expect but ventilate your place well and do not let persons with respiratory health problems in the room until the odor is completely finished.

Firing Temperature and Hold Time: The firing temperature and the hold time of any material you would use are under your responsibility. Refer to using instructions of the materials you would consume

Loading The Kiln: Do not put any object to be fired, directly inside the firing chamber, but use some kind of ceramic tray to avoid the object touching the heater chamber bottom. For example, you can use a ceramic fiber shelf, alumina bowls, etc., according to your works.

Every time, put your kiln to "OFF" position before opening the kiln door. Use protective glasses and work gloves. Put the objects to be fired on the ceramic tray, and place the tray into the kiln with tongs long enough to protect you from heat and close the door. Be sure that it is completely closed and turn the switch to "Heater" position. Do not leave the kiln door open longer than necessary and close it tightly. High heat which would escape from the gaps between the door and the front side of the heating chamber causes discoloration at the paints of the kiln.

Because of opening the kiln for a short time, the temperature of the heating chamber will fall some degrees which you would see on the indicator. Wait until it reaches the temperature you have adjusted and start your chronometer or alarm watch for hold time.

!!WARNING!!

Do not fire fiber boards, fiber blankets and any other thermal insulating materials thicker than 1cm in the kiln. Otherwise, you may destroy the heating elements.

Unloading of Fired Objects: Turn your kiln to "OFF" position. Put protective glasses and work gloves on. Hold the tongs, enameling tray, etc., open the kiln door, take the CERAMIC TRAY out, with the fired object on it and close the door. Leave it on the fire proof plate as it is and let it to cool.

Note: Do not hurry while loading and unloading but do it in a short time. Do not leave the kiln door longer than necessary and close it tightly. High heat which would escape from the gaps between the door and the front side of the heating chamber causes discoloration at the paints of the kiln. When taking a break for a period, turn your kiln to "OFF" position. If you would be by your kiln and want to watch the kiln temperature, you may turn it to "DISPLAY" position where only shows the temperature but not heats. When you complete your study, turn your kiln to "OFF" position, unplug and leave it to cool the door closed. To leave your kiln door fully or partially open is not convenient. Heating chamber, ceramic surfaces can be damaged, the painted surfaces adjacent to door opening can be discolored, even burned.

(6) IMPORTANT POINTS

Read the Instruction Guide: Before operating your kiln read every page of this guide carefully.

Maintenance: Before any maintenance, be sure the kiln is unplugged and completely cold.



Outer Surfaces of the Kiln: Do not touch these hot surfaces with bare hands, may cause burns. Make the cleaning of these surfaces with slightly wet soft cloth, when the kiln is cold and unplugged. Do not use detergents, alcohol or any other chemicals or abrasives.



Ceramic Surfaces: The Heating Chamber, the front face of the kiln isolation, inner face of the door isolation are ceramic surfaces. Be aware of touching them with sharp or pointed instruments, you may damage them. Do not touch heating elements which are embedded under these ceramic surfaces. It may cause severe electric shock.

Embedded Heating Elements: The heating element of the kiln is embedded around the heating chamber. This protects you from an electric shock, if properly used. The surfaces of the heating chamber are strong enough to stand proper tasks. But never rub or scratch with inconvenient instruments. Do not apply mechanical forces to ceramic and outer surfaces of your kiln to avoid any undetectable damage which may cause serious risks.

Protect Your Kiln From Harmful Materials: Avoid the heating chamber contaminating with any other material not recommended by our company for any purpose. Water, oils, solvents, silica and silica involving substances, alumina hydrate, enamel powders, glaze and glass can be absorbed by the ceramic parts of the kiln and ruin the heating elements and ceramic parts as well. Do not place glazed ceramics, glass and enameling directly on the Firing Chamber bottom. Protect the chamber from contamination of these, by using ceramic shelves under your works. If such a contamination occurs, unplug the kiln and carefully scrape the contaminant off the surface with a knife and vacuum the residues. Be careful not to damage the ceramic surfaces.

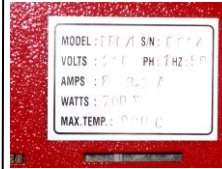
Cleaning the Heating Chamber: Unplug and cool your kiln to room temperature. Take out any residues with a soft brush without leaving any hairs. If any contaminants left, carefully scrape it with a knife and take it out. Vacuuming is also recommended for inner cleaning.

Check the Thermo-couple: When you open your kiln's door you will see a small rod in the back wall of the Firing Chamber. This is called the thermo-couple and senses the minimal voltage differentials under temperature changes, passes it to the Temperature Controller, which interprets and simply controls the heating element. If this rod is pushed out of the Firing Chamber, the Temperature controller will assume that the firing chamber is cold and this will cause over heating. To avoid this, before firing the kiln, make sure that the tip of this rod extends to the firing chamber about 1 cm.

Optional View Glass: Do not exceed 900°C for firing temperature, other wise, and the glass will be damaged.

Note: Wear protective glasses when you look into hot kiln, directly or through a view glass.

Electrical Data Plate: On this plate, on the back side of your kiln, important notes are recorded. When ordering spare parts or corresponding with your dealer or our company about your kiln, please include this information.



(7) DO NOT WORRY NEEDLESSLY

The ceramic parts of your kiln expand and contract every time it is heated and cooled. At the inner surface of the door isolation and the front surface of the Firing Chamber, small cracks may appear. Don't be concerned, these will not affect your kilns performance. Also, eventually, discolorisation on the painted surfaces of your kiln, around the door will be seen. This is due to the heat, coming out when the door is opened. This is not a problem for your kilns performance too. To minimize this discoloration, do not open the door over 780°C, do not leave it open longer than necessary and be sure it is tightly closed when you close it. Do not hurry while loading and unloading but do it in a short time.

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