

MELTATIONS

For the economical and efficient operation of the **JEKO JEWELLERY ENAMELLING KILN**

1. Connect unit to 220-240 volt power.
2. The oven reaches an operating temperature of 900°C from cold after approximately sixty minutes. An oven temperature of 900°C is a temperature universally recommended for firing vitreous enamels on metals, copper, silver or gold.
3. The majority of enamels fuse at temperatures varying from 700°C-820°C and the firing of the articles is to be watched by constantly opening the oven door and by inspection to observe when the enamel has melted to a glassy or smooth layer and then the articles are removed.
4. It is generally considered advantageous to fire objects at high temperatures quickly rather than to leave the objects in the oven at a lower temperature for longer time.
5. The articles are removed from the oven as soon as they are fully fused and cooled until they are thoroughly fused.
6. The necessary time to leave the article in the oven will easily be found by referring to the firing temperatures of various enamels. Approximately one to two minutes at the most is found to be most common.
7. **Painting or Colours** — These colours fire at a much lower temperature than other enamels, approximately 680°-700°C and therefore require a closer control during firing.
8. It will be noted that approximately sixty minutes is required for the oven to reach operating temperature, i.e. from cold at the beginning of daily operation. However, once the kiln has been in operation it will retain a considerable amount of its temperature for quite some time after being switched off and will quickly recover to an operating temperature once it is switched on again. For this reason it is strongly recommended that the power not be left on for any lengthy periods when not in use but switched off after each individual operation and then only switched on again prior to the next loading, thus a saving of electrical energy will be made.

The kiln should be operated in conjunction with the recommendations regarding the firing of vitreous enamels as described in the Jewellery Enamelling Manual published by Messrs. *J. E. Kneebone & Co.*, Vienna, Austria. **J. E. Kneebone & Co. Pty. Ltd.**, Sole Australian Distributors, 165 Flinders Lane, Melbourne.