



## MAGMATHERM LABORATORY FURNACES

### FIRST HEATING GUIDE

Following conditions should be considered, directions must be applied step by step, and the importance of the first heating process should be kept in mind, when Magmatherm Furnace is operated and heated up for the first time.

1- Enough free fields surrounding the furnace should be kept. Recommended distance is minimum 30 cm. This free space will increase the furnace performance because of air circulation. At the same time, any fire or explosion danger which may occur due to any material left around the furnace. Please don't forget, when the furnace reaches to high temperatures, the surface of the furnace reaches to high temperatures too. Any flammable and explosive material which is close to furnace can be a reason for the fire or explosion danger.

2- Some gas and fumes due to some chemicals which is used on the electronic parts, in the isolation materials and due to outer furnace surface paint can be harmful if it is breathed directly, during the first heating process. Protective glasses and breathing masks should be definitely used, during first heating and very good air circulation in the working room should be kept.

3- During the first heating up process, furnace should be heated up according to following temperature-time table

Heating up to 1000 °C with 15°C/min Heating Rate

Waiting for 2 hours

Heating up to 1100 °C (or maximum temperature if selected model has lower temperature)

Waiting for 30 minutes.

This procedure can be completed by Magmatherm Programs easily.

Please don't touch furnace without gloves, especially during first heating process, due to hot surfaces.