

ELECTRIC MELTING FURNACE

For gold, silver, copper-based, and tin-based alloys



Contenti

IMPORTANT: TO AVOID ACCIDENTS OR DAMAGE TO THIS EQUIPMENT, STUDY THIS MANUAL CAREFULLY BEFORE USING YOUR ELECTRIC MELTING FURNACE. BE SURE TO WEAR HEAT RESISTANT GLOVES AND EYE PROTECTION WHEN OPERATING THE FURNACE. INSPECT THE CRUCIBLE FOR CRACKS, WEAR, AND DETERIORATION BEFORE EACH USE. DISCONNECT FROM POWER SOURCE BEFORE SERVICING.

SPECIFICATIONS:

Item No.	Crucible capacity	Watts	Max. Temperature
170-845	1 kg (18 Kt gold)	850	1100°C (2012°F)
170-847	2 kg (18 Kt gold)	1300	1100°C (2012°F)
170-849	3 kg (18 Kt gold)	1700	1100°C (2012°F)

This furnace is designed for melting gold, silver, and other non-ferrous metals when casting or when forming ingots. The unit is equipped with an electronic temperature control.

IF YOU HAVE PURCHASED A 220 VOLT FURNACE, YOU WILL FIND THAT THE ELECTRICAL CORD SET PROVIDED WITH YOUR FURNACE IS EQUIPPED WITH A EUROPEAN-STYLE PLUG. YOU WILL HAVE TO REMOVE THIS PLUG AND REPLACE IT WITH A PLUG THAT MATCHES YOUR 220 VOLT RECEPTACLE.

INSTALLATION:

1. Unpack the furnace from its box and locate the furnace in an area that is at least 12 inches away from any combustible items. The work surface beneath your furnace should be made from steel, ceramic, or other heat resistant surface that will not tend to burn when molten metal is spilled on it.
2. Do not store any flammable chemicals in the vicinity of the furnace.
3. Place the furnace in a well-ventilated area. If the material you will be melting emits noxious fumes, the furnace should be located beneath an exhaust hood.

4. Remove the crucible from the furnace.
5. Check that the main power switch is in the "OFF" position.
6. Connect the electrical power cord to the furnace and then plug it into a properly grounded electrical outlet.
7. Turn the furnace on. The word "TEST" will appear on the screen of the temperature control for as long as the control performs a self-test. Once completed, the screen will display the temperature of the heating chamber.
8. To set the temperature control to the desired temperature (called the "set point"), press the "P" button on the temperature control. The designation "SP1" will appear. You may now set the desired temperature by pressing the "UP" or "DOWN" key. When the desired temperature is displayed, press the "P" button again. (The "U" button on the temperature control is inactive). The maximum working temperature of the furnace is 2012°F. Once the furnace has attained the set-point temperature, a square, green LED, just beneath the temperature display, will light. Shortly, a red LED will also light, indicating that the furnace has passed the set-point temperature. These 2 lights will alternate on and off as the furnace adjusts to the set-point temperature. It is normal for the temperature to fluctuate slightly above and below the set-point temperature.
9. Wipe the interior of the crucible with a soft cloth or paper towel. Using the tongs, install the crucible into the furnace, and close the lid. This will cause the temperature control to call for heat again. After the furnace has again reached the set-point, slowly introduce the metal to be melted. Do not fill the crucible to more than 1/4 of its capacity. When this initial charge melts, you may introduce additional metal. Never drop large or heavy pieces of metal into a hot crucible.
10. When your metal has melted completely, remove the crucible using the crucible tongs, and proceed to pour. Turn the furnace off, and return the empty crucible to the furnace for cooling.

ONE YEAR LIMITED WARRANTY:

Subject to the EXCLUSIONS below, The Contenti Company (Company) warrants this Electric Melting Furnace (Product) against defects in materials or workmanship for a period of six (6) months for parts from the date of the first consumer purchase. The Company will repair or replace, at its option, the Product and any of its parts which fail to conform to this warranty. The Company may replace or repair the Product using new or refurbished parts. All replaced parts become the property of the Company. All warranty repairs must be performed by The Contenti Company.

OBLIGATIONS OF OWNER:

The original dated purchase receipt with the item number of the furnace on it must be retained as proof of purchase and be presented to the Company before warranty services will be rendered. In order to obtain warranty service, the Product must be delivered with the approval of the Company, have a detailed description of the problem, and have freight prepaid to the Company, in the original packaging or equivalent (to avoid shipping damage). The repaired Product will be returned to the owner, freight prepaid.

EXCLUSIONS:

This Limited Warranty does not cover the repair of cracked, scratched, broken, or modified plastics or other cosmetic damage; parts that have been altered, defaced, or removed; or stripped threads from over-tightening. The Company will not allow charges for labor, expense, or consequential damages. This Limited Warranty does not apply to repairs or replacement necessitated by any cause beyond the control of the Company including, but not limited to, any malfunction, defects or failures which in the opinion of the Company are caused by or result from unauthorized service or parts, improper maintenance, operation contrary to furnished instructions, shipping or transit accidents, modification or repair by the user, abuse, misuse, neglect, accident, fire, flood, or other acts of God. There are no warranties, expressed or implied, that extend beyond those contained in this limited warranty.

LABOR CHARGES:

At the company's discretion, a labor charge may be assessed on Products returned for Limited Warranty repairs in which no fault is found.