

User Manual of MF Series Melting Furnace

General safety information for the use of this melting furnace:

- Always keep this user manual close to the device and accessible to the user.
- Ensure that you instruct your employees how to use the melting furnace correctly.
- Make sure that the working area is well ventilated.
- Keep all escape routes clear.
- Keep a fire extinguisher near to the working area.
- Always use safety gloves.
- Do not place the melting furnace on combustible supports or close to combustible materials.
- Supervise the device during the heating process.
- Do not overfill the crucible or else it will overflow during heating.
- Add solid melting materials by inserting them slowly into the hot liquid mass.

Specific safety information:

- In order to ensure a long durability and good performance of your device, we strongly advise that you do not use it for longer than 3 hours per use. Please ensure to STOP for at least 30 minutes after 2 hours of continuous work.
- Periodically check the stability and quality of the crucible in order to avoid damage to the heating coil.
- The maximum operating temperature for the melting furnace is 1150 degrees Celsius. NEVER exceed this temperature.
- Recycled gold or silver contains acid and alkali which may corrode the heating element. If you want to melt recycled metals, please open the cover of the melting chamber regularly to let the toxic substance evaporate in a well-ventilated area.

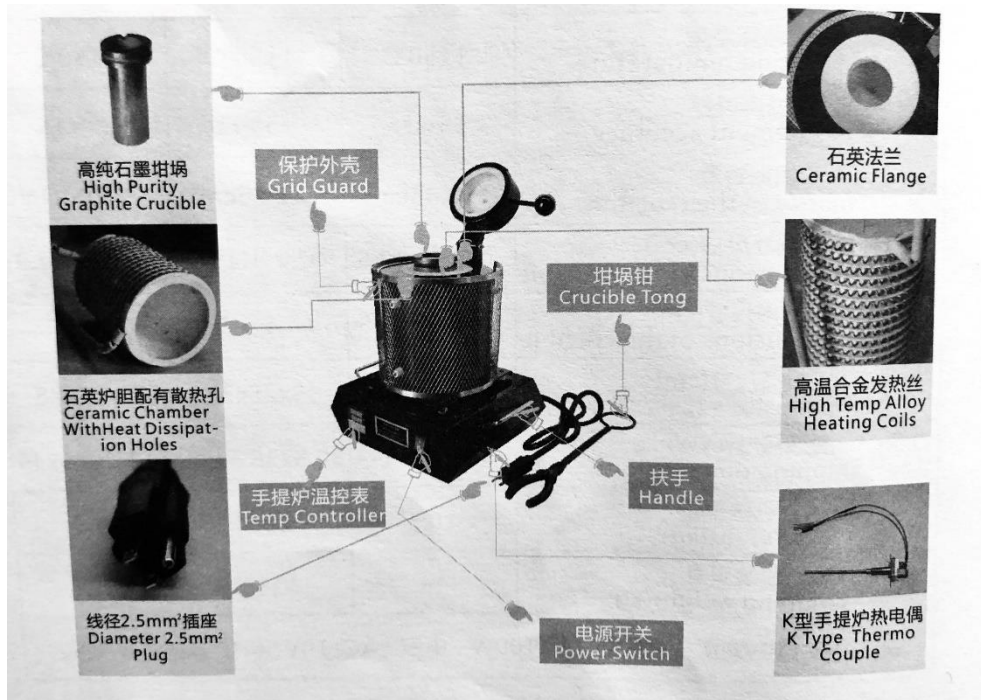
Technical Details:

Model	M.MF.01000	M.MF.02000	M.MF.03000
Power Input (w)	1800	1800	2100
Power Supply	AC220V 50HZ	AC220V 50HZ	AC220V 50HZ
Max. Heating Temperature	1150°C	1150°C	1150°C
Measurement Accuracy	+/- 5% FS	+/- 5% FS	+/- 5% FS
Capacity of Crucible	130.35cm ³	212.76cm ³	294.00cm ³
External Dimensions of Crucible (cm)	Φ6.5 H12.5	Φ7.2 H15.5	Φ7.5 H17.2
Internal Dimensions of Crucible (cm)	Φ3.8 H11.5	Φ4.4 H14	Φ5 H15
Dimensions (cm) (LxWxH)	35 x 25 x 38	35 x 25 x 38	35 x 25 x 38
Shipping Dimensions (cm) (LxWxH)	38.5 x 38.5 x 44	38.5 x 38.5 x 44	38.5 x 38.5 x 44
Weight (kg)	10.5	10.5	10.5
Shipping Weight (kg)	12	12	12

Contents of Delivery:

- Melting furnace with power plug.
- Crucible.
- Crucible tong.

Assembly:



Operation:

- Plug the device into the power source.
- Press the On/Off button.
- To set the temperature (smelting temperature), press the SET button until (SV=Set Value) flashes. Every digit can be set from here. To select the digit you wish to change, press the "<" button. To change its value, use the ^ and v buttons. To save the selected value, press SET again. Please note, if you do not save the selected value, the device will automatically go back to the main display mode without holding the value that you selected after 30 seconds.
- The device will now start the heating process. The "OUT" light will be lit until the temperature reaches the chosen value.
- As soon as the temperature is reached, the device stops heating. The "OUT" light now flashes and the temperature will remain constant.
- Cast the metal into the mold and put the crucible back into the heating chamber.
- Turn the furnace out as soon as the whole quantity of molten metal has been used.

Please consider that the crucible should not be completely full. If you overfill the crucible, the device will not be able to produce the head needed to melt the metal.

Please also note that the melting process often produced vapours. If you overfill the crucible, it can lead to over-pressure and the device can become hazardous when the cover is opened.

Please purchase separate crucibles to melt different metals.

Always consider the production of vapours during the melting process.

CAUTION: Never open the device without authorization of your seller. This can result in loss of warranty.

Please note that the heating coil may wear out and you will need to replace it at some point. To check the function of the heating coil, please adhere to the following instructions:

- Open the bottom of the furnace.
- How to check the resistance of the heating coil: If it is 110V, the resistance is about 8Ω. If it is 220V, the resistance is about 30Ω. If the resistance is infinite, that signifies that the heating coil is broken and will need to be replaced.
- Remove the screws.
- Take off the protection sleeve, and then remove the screws on the furnace body. There are also screws on the inside. Remove these too and then you will be able to remove the flange.
- After removing the flange, you can remove the furnace chamber.
- Remove the broken heating coil, and screw the new heating coil into the furnace chamber. DO NOT forget the insulating rod.