

KDF

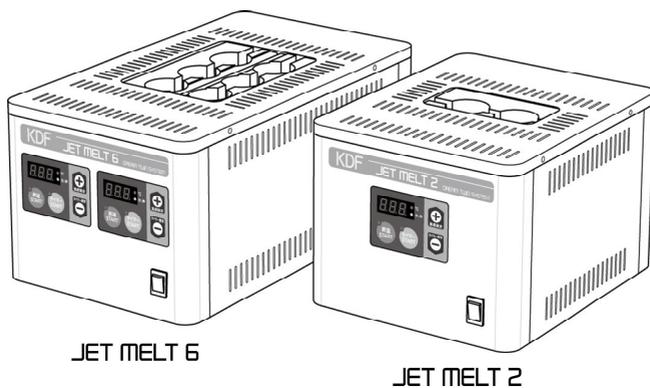
Instruction Manual

Resin Furnace **JET MELT 2/JET MELT 6**

DHM-0200/DHM-0600

Thank you for purchasing KDF Resin Furnace, JET MELT2/JET MELT6.

Before using the unit, please read the manual thoroughly and understand the capabilities and proper usage for this machine. Please keep this manual in an easily accessible location for future reference.



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Safety Precautions

We recommend you to follow these instructions for proper use of the unit.

The safety precautions contained herein and the accompanying icons provided for the safe use of this machine and to prevent injuries and loss on material resources. Please read them carefully prior to your actual machine operation.

■About labels which are put on the unit.



This mark means a warning that "Hot parts. Be careful not to burn".

■About picture indication



WARNING

Failure to follow or ignorance of the directions may cause severe injury or death.



CAUTION

Failure to follow or ignorance of the directions may cause injuries or damages to material properties.



⊘ This mark means prohibited actions as shown inside or around it. The illustration on the left means "Do not disassemble".



● This mark means forced action and directions to follow as shown inside or around it. The illustration on the left means "Unplug out of power outlet".



△ This mark requires a user to pay attention to the caution mark as shown inside or around it. The illustration on the left means "Be careful not to jam your fingers "

WARNING



- In the event when there is smoke, abnormal odors or sounds, turn off the power, unplug immediately and contact the dealer for repairs.
- In the event when water enters the machine, turn off the power, unplug immediately and contact the dealer for advice. Continued use may cause electric shock or fire.
- In the event when debris enters the machine, turn off the power, unplug immediately and contact the dealer for advice. Continued use may cause electric shock or fire.



- Do not remove the panels or parts uninstructed or modify them in any manner. This may cause electric shock or fire.



- In the event, when the machine is dropped or the furnace frame is dented, unplug immediately and contact the dealer for advice. Continued use may cause electric shock or fire.



- Plug to the outlet of the designated voltage described in the main specifications. Use of other voltage may cause fire or shock.



- Do not place heavy items or place machine on the power cord and make sure that the cord is not damaged. This may cause fire or electric shock.
- Please do not damage the power cord, or process, excessive bending, twisting, pull. Doing so could damage the cord and cause fire or electric shock.
- Be careful of wiring power cord not to get caught in anything.

CAUTION



- Unplug the main power cord from the power outlet when the machine is not in use for a long period of time.
- In case of a periodic machine maintenance, unplug the power cord from the power outlet.



- Do not handle the plug with wet hands.
- When you unplug the power cord from the power outlet, do not pull the cord. If the cord is damaged, it may cause fire or shock. Always remove by handling the plug.



- This is a furnace of thermoplastic resin for dental lab. use. Do not use the unit for other purposes.



- When you move this machine, power off the switch, and unplug the main power cord from the power outlet. This may cause fire.



- Before melting resin, be sure if there is nothing dropped in melting slot. As it is used, it may have bad influence of injection performance, or may cause of trouble of pulling out cartridge from melting slot.



- Please use KDF recommendable parts such as Cylinder for melting resin and Aluminum case etc. Otherwise, this may cause machine failure.



- As Melting slot is high temperature, if this unit is used and several hours after switching OFF the unit, be careful not to burn.

Before you start using your furnace

When you open the box, we recommend you to make sure that the following standard accessories are included. In addition, please check the unit for any damage or dent. Contact our technical support team if there is any damage.

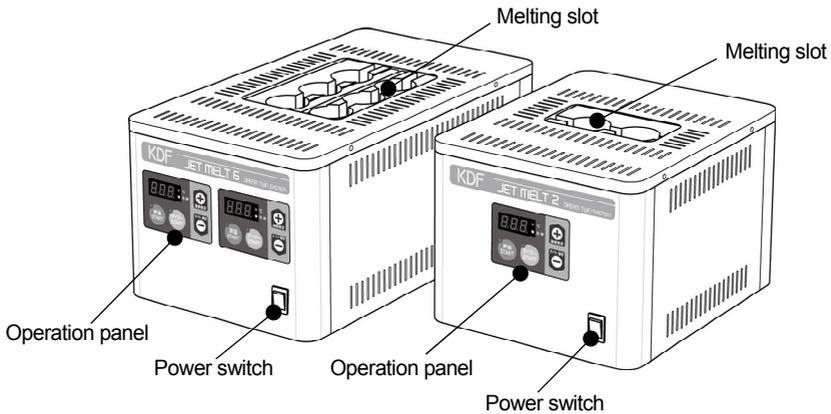
Standard Accessories

Instruction Manual 1 booklet

We recommend you to save the carton and all packing materials for future use.

Descriptions and Functions of each Component part

■ Descriptions of each Component Parts

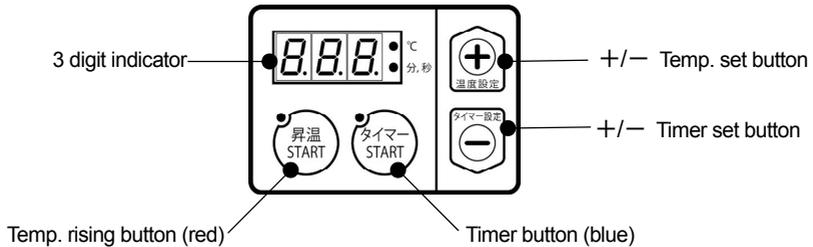


Power switch : Switch ON / OFF the unit.

Operation panel : Program operation, furnace temperature, Operation Start/Stop

Melting slot : Insert cartridge with thermoplastic resin here to melt.

■ Functions of Operation panel



3 digits indicator : Show temp. and time.

Flashing depends on situation of temp. or time.

Temp. rising button : Start Temp. rising or stop it.

Timer button : Use for Timer function.

+/- Temp. set button : Set melting temp.

+/- Timer set button : Set time for melting.

Operation

■ Location & Environment

- Set up the unit on the center of a flat stable table.
- Secure the unit with the hook on the back of the unit to prevent turnover or drop.
- As the unit is in high temperature, do not place any flammable thing around the unit.

■ Electricity

- This unit is AC100V, step-down transformer is required.

■ Power Switch On

- When the unit is set up press the Power switch ON.

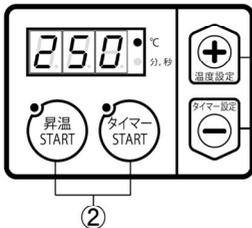


3 digit indicator indicates the temp. of melting slot.

In case of JET-MELT 6, it can set temp. and timer for left and right separately.

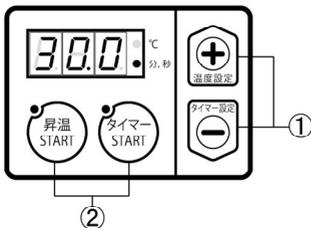
■ Program Operation

When you purchase the unit, program is pre-set with melting temp. 250°C and timer 30 min.



- Change melting temp.

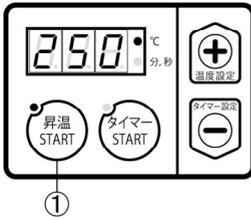
- ① After pressing + button, indication changes darkly to indicate programmed temp. Then, set temp. by + or - button.
- ② After setting is completed, press START (red) or - START button (blue) to register your setting.



- Change timer.

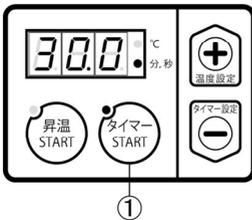
- ① After pressing - button, indication changes darkly to indicate programmed time. Then, set temp. by + or - button. Setting is available in 10 sec.
- ② After setting is completed, press START (red) or - START button (blue) to register your setting.

■ MELTING



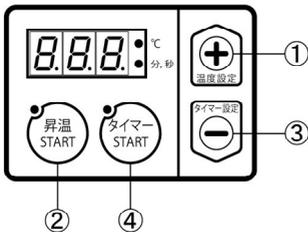
- ① After press START (red), 3 digit indicator indicates setting temp. then rising temp. When temp. reaches $\pm 5^{\circ}\text{C}$ of setting temp., the unit makes buzzer.
- ② Insert dried resin cartridge into melting slot.

■ TIMER



- ① Press START button (blue), then timer starts after setting time is indicated. When remaining time reaches zero, the buzzer sounds.

■ OTHERS



- Confirm melting temp.
 - ① While pressing + button, setting melting temp. is indicated.
- Stop melting.
 - ② Keep pressing START (red) button.
- Confirm timer remaining time.
 - ③ While pressing – button, remaining time is indicated. After time is up, adding passage time.
- Stop timer
 - ④ Keep pressing START (blue) button.

Error Messages and Troubles

■ Short cast

As there may be various factors, one idea to solve Short cast is to add some melting temp.

■ Proper resin colour is not created.

It may also be caused from unevenness of resin production lot. If resin seems to be burnt by high temp., try some lower temp.

■ Error Messages

When you have the errors and troubles as mentioned below, we recommend you to follow the instructions shown on each item ;

Er 1 : Control P.C.B. breakdown

Er 2 : Computer memory loss

Er 3 : Temp. rising failure of Melting slot.

Er 4 : Thermocouple breakdown

Er 5 : Computer memory value for data exceeds the designated value.

Er 6 : Abnormal melting slot heat up.

- ※ Even if the unit is fine condition, a large amount of noise may cause Error shown in above.
Switching OFF and ON may release Error and return to normal.
A large amount of noise may be from thunder, thunderbolt, induction casting machine, arc casting machine, radio unit and other electric devices.

Maintenance



When doing maintenance, switch OFF and plug out from socket.

● Cleaning

Water down the neutral detergent with cloth, wipe the unit by the cloth.

Before melting, be aware there is no foreign matter inside melting slot, otherwise it may have bad influence of injection process or cause of trouble of pulling out cartridge.

Main Specifications

Model	JET MELT 2 / JET MELT 6
Power Requirement	Single phase AC100V $\pm 10\%$ 50/60Hz
Power consumption	500VA / 1000VA
Overall dimension	200(W) x 170(H) x 250(D) / 200(W) x 170(H) x 350(D) mm
Weight	6.8kg / 10.4kg
Number of melting slot	2 / 6
Setting temp. range	20~340°C (in 1°C)
Timer	10 sec.~99 min. 50 sec. (in 10 sec.)
Environment for use	Room Temperature 5~40°C Humidity 10~95%RH no condensing Altitude: 2000 meter and under Indoor use Pollution Degree 2 Over voltage Category II

DENKEN-HIGHDENTAL Co.,Ltd.

130 Ishigohri-cho, Ohyake, Yamashinaku, Kyoto 607-8187, Japan

TEL 81-75-571-1000 FAX 81-75-572-9000

e-mail : denken@kdf.co.jp