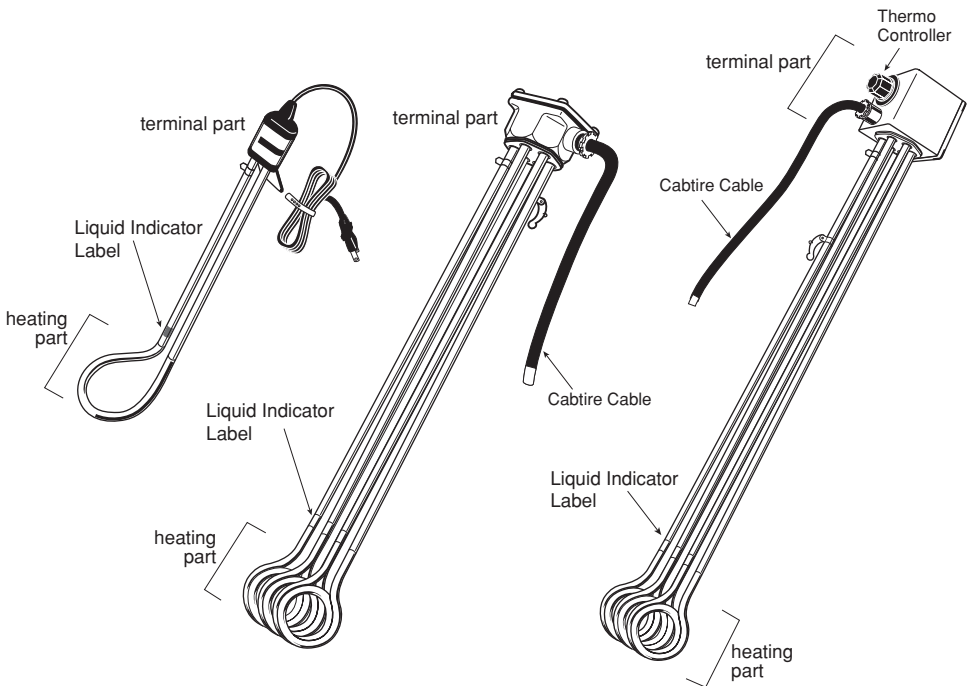


# HANDLING MANUAL

Thank you for your purchasing.

Please follow instructions herein for correct use.  
Hold this manual at convenient place for reminding.

## IMMERSION HEATER for WATER



**HAKKO ELECTRIC MACHINE WORKS CO., LTD.**

# Warning

● **Do not use for other liquid than water.**

It will cause of firing and electric shock.



● **Do not put terminal and thermo controller into the water.**

It will cause of electric shock and electric leakage.



● **Do not use an unstable container.**

Check a container standing stability and no upsetting with a heater therein before pouring liquid into a container. If it upsets, then it will be cause of firing..



● **Do not reconstruct heaters.**

It will cause of firing and electric leakage, if reconstruction is done.



● **Do not use for bath.**

It will be cause of electricity shock.



● **Do not use so cases as follows, it will cause of firing, electric shock and leakage.**

- Place where a heater sinks into precipitated materials in a liquid.
- Additives on surface of heaters.
- Viquid level indicator comes out of liquid level.
- Vlance where heater terminal getting splashed.



● **Do not hurt power code.**

It will cause of firing and electrical shock to hurt, bend and pull electric cable. Please consult with your shop, if electric cable is damaged.



# Warning

## ● Do not handle a plug by wet hand.

It will be cause of electric shock.



## ● Do not use a container in a higher temperature than allowable limit of container material.

It might be cause of trouble of container.



## ● Pull immediately a plug of power cable, if a container should upsets.

It might be cause of firing. (In case of specification of 200V, please switch off power supply)



## ● Fix a heater with container certainl.

If thermo controller should sink into water, it will cause of electric shock and leakage.



## ● Switch off power supply surely after using.

To switch off is to be done by using a breaker switch, to verify setting temperature by thermo controller switch has nothing to do with switching off of electric power, otherwise It will cause of firing.



## ● A heater must be always switched on under liquid.

Please make sure always that liquid level is at minimum limitation level at least. It will cause of firing, burn and out of order, if electric power switches on without liquid. Thermo controller is not designed for over heatproof function.



# RECOMMENDATION

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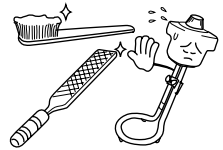
## ● Heater maintenance

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Maintenance works shall be done under normal temperature without electricity.

Please eliminate any additive on the heater surface with a kind of plastic material.

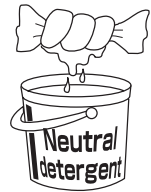
Do not use metal materials, such as wire brush and etc.



## ● Maintenance for terminals

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Maintenance works for terminals shall be taken after switch-off. A Vacuum cleaner shall be used for dust and etc. Clean with dry wiping is recommendable without water.



# AFTER-SALES SERVICE

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## ● If any queries arise,

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please contact the shop you purchased this product from or Hakko branch offices, sales offices or its affiliated companies in the attached list.

### ■ HAKKO CO.,LTD. THERMAL DEVICE SALES DIVISION

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