

Flexible Rubber Heater

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# RUBBER HEATER FOR THE PAIL

**SBH0540** (100V)

**SBH0530** (single phase 200V)

## INSTRUCTIONS MANUAL

Thank you for your choosing our product.

Read the instructions before use and remember to keep in the convenient place for future reference.



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

# FOR SAFE USE OF THIS PRODUCT

We use the following symbols for safety.



Improper use may cause the danger of death or injury.



Improper use may cause the danger of light injury or property damage.

## ! WARNING

● **Do not fix the rubber heater higher than the liquid level.**   
It may cause fire and disconnection.

● **Do not pour water at the controller box.**   
Wet devices may cause electric shock or leakage. 

● **Do not touch with wet hands.**   
Do not handle the controller by wet hands. It may cause electric shock. 

● **Do not use the heater in the following condition. It may cause fire, electric shock or failures.**   

- Use in the explosive or flammable atmosphere.
- Use in the place where other heaters or heating system are working.
- Use in the atmosphere at temperatures of 10 degrees Celsius below zero or less.
- Use in the atmosphere of high humidity, such as bath.
- Use in the atmosphere at temperatures of 50 degrees Celsius or more.
- Use in the corrosive atmosphere.
- Use in the steamy or water dropping place.

● **Do not enclose the pail while heating.**   
An airtight pail while heating may cause explosion, damage, burns, fire or troubles.

● **Do not use in the water.**   
Do not use the rubber heater in the water (or liquids). It may cause electric shock, leakage or failure. 

● **Do not touch the heater with bare hands.**   
Do not touch the rubber heater with bare hands while heating or just after turning off. It may cause burns. 

● **Do not alter or deform the rubber heater.**   
Cutting, punching a hole or altering wires may destroy the rubber heater. 

● **Do not cover on the rubber heater with insulator or other materials.**   
It brings overtemperature and may cause damage, fire, electric shock or leakage. 

## ! CAUTION

● **Do not damage on the heater or cables.**   
Do not damage on the rubber heater or power cables. It may cause electric shock or failures.

● **Do not pull the power cables.**   
Do not pull the power cables. It may cause failures. 

● **Storage of the rubber heater.**   
Keep the rubber heater in storage with cover at normal temperature and humidity. Dust and dirty surface may cause electric shock and leakage.

● **Use correct power voltage.**   
Do not use with any power voltage other than the indicated. It may cause failures.

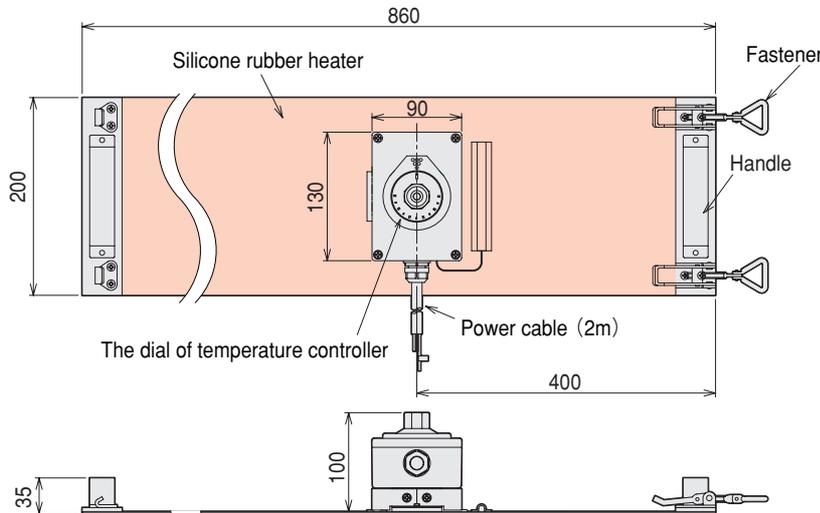
## Item description

This is the special heater designed for heating pails. The silicon rubber heater is combined with the temperature controller. The rubber heater contacts directly with a pail and can transfer heat efficiently. One-touch clump makes easier to wrap around a pail.

## Specifications

Model number	SBH05300	SBH0540
Product code	06010021	06010026
Voltage	single-phase 200V (50/60Hz)	100V (50/60Hz)
Wattage	700W	
Dimensions (whole)	200 × 860 mm	
temperature controller	The range of temperature	30 ~ 80 °C
	Switching mechanism	snap-on (no forced disconnection)
	Control method	ON/OFF
	Temperature for normal use	-10 ~ 50 °C
Power cables	Cab tire cable 2 m (1.25mm <sup>2</sup> ) 3wires (red, black, and white[ground]) SBH0540 has the plug for 100V	
Weight	approx. 2.5 kg	
Pail application	Nominal capacity 18/20 ℓ (diameter 286 mm) JIS Steel pails	

## Names of parts



### ⚠ CAUTION

- This heater has no auto power off function. Remember to power off while the heater is not in use.
- Confirm the liquid level is higher than the heater attached.
- Do not bent or fold the rubber heater in handling or storage.

## How to use

- ① Adjust the fasteners and attach the rubber heater tightly with the pail.
- ② After connecting the ground cable and power cables, power on.  
**SBH0540 (100V)** : Connect the plug into outlet (Power on).  
**SBH0530 (200V)** : Fix crimping terminal on power cables.  
Confirm power off, and connect power cables (black and red) with 200V source of single phase. Turn on the power switch.
- ③ Set the target temperature with the dial of the controller.
- ④ After use  
**SBH0540 (100V)** : Disconnect the plug from the outlet.  
**SBH0530 (200V)** : Power off and disconnect power cables if needed.
- ⑤ If you need to dismount the rubber heater, leave it to room temperature and wear protection gloves.

# Troubleshooting

Trouble	Cause	Action
Impossible to control temperature	Trouble on the dial of the controller.	Replacement of the dial.
	Trouble on the temperature controller.	Replacement of the temperature controller.
Impossible to increase temperature	Disconnection of power cables.	Check the power cables.
	Trouble on the temperature controller.	Replacement of the temperature controller.
	Burnout of the rubber heater.	Replacement of the rubber heater.
	Wrong adjustment of temperature.	Reconfirmation of the target temperature.
	Burnout of the thermal fuse.	Replacement of the rubber heater.

Dried atmosphere may cause static electricity. It has no harmful influence for heater functional.

## After-Sale Service

● If you have any questions,

If you have any questions about our products, contact with your distributors, or the Sales Head Office of HAKKO CO., LTD. The addresses and phone numbers are as follows.

### Branches, sales offices and affiliate sales companies of HAKKO CO., LTD.

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