



# Heat & Ice

H&I-2, H&I-4, H&I-6, IGT

## Operator's Manual

and

## Technical Supplement

Belshaw Bros., Inc.  
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**If you accept the machine from the shipping company, you are, in effect, saying that the machine is in good condition, and you must pay for the machine.** Belshaw cannot pay for shipping damage, because the freight company has accepted the machine from Belshaw in good condition, and is responsible for its safe delivery. **For your protection,** inspect the machine to see that no parts are bent, scratched, or otherwise damaged. If any damage has occurred in shipping, file a freight claim with the shipping company immediately.

To transport the H&I to the workstation and unpack it:

1. Break down the shipping crate.
3. Remove all the packing materials from the H&I, including foam, tape, brown paper, plastic, and white protective coating.

**IMPORTANT**

**Keep this manual for future reference.**

**EQUIPMENT RECORD**

Please provide the information below when you correspond with us about your machine.

Purchased by \_\_\_\_\_

Installed by \_\_\_\_\_

Date of installation \_\_\_\_\_ Model number \_\_\_\_\_

Serial number \_\_\_\_\_

011108

MN-1732EN

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# Preface

The H&I Heat and Ice is designed for icing donuts and a variety of baking products quickly and easily.

It is meant to be used on a flat surface. The operator must work safely at all times, read this manual, and follow its instructions and warnings.

The H&I Heat and Ice uses electrical elements to heat water in its kettle. The machine is available with the following electrical configurations:

- 120 volts, 1 phase, 50/60 hertz
- 240 volts, 1 phase, 50/60 hertz

To use the H&I Heat and Ice safely, heed the following warnings:

- Disconnect from power source before cleaning or repairing.
- Never touch the icing pan once the machine is on. The pan gets very hot, which may cause serious burns.
- Do not overfill the kettle with water.
- Hot water can cause serious burns. Make sure that the system and the water are cool before attempting any adjustment, repair, disassembly, or cleaning.
- To avoid electrocution or other injury, unplug the machine before attempting any adjustment, repair, disassembly, or cleaning.
- To avoid damaging the machine, never use force to assemble, disassemble, operate, clean, or maintain it.
- Be careful never to get water, or other materials on the floor. If anything does get spilled on the floor, mop it up immediately. Materials on the floor can

cause people to slip or fall, resulting in serious injury or loss of life.

- To prevent unintentional startup and possible fire, unplug the machine if there is a local power outage. When the power is restored, it is safe to plug the machine in again.
- To avoid electrocution, make sure that all electrical cords are not frayed or cracked and that they do not pass through any water.
- Make sure that all electrical cords are routed so that no one will trip over them.

# 1

# Operation



Figure 1. H&I-4

## WARNING

Do not operate without proper water level.  
This will prevent damage to the heater  
element.

## WARNING

Do not submerge the heating element or  
control box with water.

## Initial setup

1. Remove H&I from box.
2. Remove all packing materials.

3. Wash H&I with warm water and a mild detergent.
4. Sanitize H&I
5. Install one empty icing bowl.
6. Fill kettle with hot water until the empty icing bowl is floating ½ in. off the cover.
7. Install the remaining bowls, lids and thermometer to the kettle
8. Plug in H&I

## NOTE

Use hot water to fill the H&I, using cold water can take up to 8 hours to heat up to 120°F.

9. Turn on power switch.
10. Set thermostat dial for desired icing temperature.

## NOTE

Final setting will vary depending on  
desired icing temperature

## NOTE

Do not turn H&I off overnight; H&I can  
take up to 8 hours to reheat

# 2

# Cleaning

For your safety, observe the following warnings throughout the entire cleaning process.

## WARNING

**Thoroughly clean and dry the floor if glaze, water, or other materials are spilled. Materials spilled on the floor can cause serious injury or loss of life**

## WARNING

**To avoid the possibility of shock, unplug the unit before cleaning**

Once per week, clean as explained below.

## WARNING

**To avoid being burned, wait for icing pan to cool before removing**

1. Unplug the unit. Remove any debris from the work area before disassembling the H&I.
2. Remove bowls, lid and thermometer and wash with warm soapy water, rinse and wipe dry.

3. Drain water from kettle, using the drain valve on the back of the machine.

## IMPORTANT

**To avoid damage to the wire / frame, use caution when removing and transporting the wire / frame**

4. Clean the H&I with warm water and mild cleaner.
5. Sanitize the H&I
6. Install one empty icing bowl.
7. Fill kettle with hot water until the empty icing bowl is floating ½ in off the cover.
8. Return the remaining bowls, lids and thermometer to the kettle
9. Plug in H&I
10. Turn on power switch.

## IMPORTANT

**Do not hose down electrical components**



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# Preface

The H&I Heat and Ice is designed for icing donuts and a variety of baking products quickly and easily.

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- Be careful never to get water, or other materials on the floor. If anything does

get spilled on the floor, mop it up immediately. Materials on the floor can cause people to slip or fall, resulting in serious injury or loss of life.

- To prevent unintentional startup and possible fire, unplug the machine if there is a local power outage. When the power is restored, it is safe to plug the machine in again.
- To avoid electrocution, make sure that all electrical cords are not frayed or cracked and that they do not pass through any water.
- Make sure that all electrical cords are routed so that no one will trip over them.

# 1

# Installation



NOTE: Picture depicts H&I-4 only

## WARNING

Do not operate without proper water level.  
This will prevent damage to the heater  
element.

## WARNING

Do not submerge the heating element or  
control box with water.

4. Sanitize H&I
5. Install one empty icing bowl.
6. Fill kettle with hot water until the empty icing bowl is floating ½ in. off the cover.
7. Install the remaining bowls, lids and thermometer to the kettle
8. Plug in H&I

## NOTE

Use hot water to fill the H&I, using cold water can take up to 8 hours to heat up to 120°F.

9. Turn on power switch.
10. Set thermostat dial for desired icing temperature.

## NOTE

Final setting will vary depending on  
desired icing temperature

## NOTE

Do not turn H&I off overnight; H&I can  
take up to 8 hours to reheat

## **Initial setup**

1. Remove H&I from box.
2. Remove all packing materials.
3. Wash H&I with warm water and a mild detergent.

---

# 2

# Maintenance

There is no maintenance required for the H&I-2, H&I-4, or IGT models.

# 3

# Troubleshooting

If you have a problem with your H&I that you cannot solve, call your dealer or another qualified technician.

If your dealer cannot help you, please call Belshaw Bros. at (206) 322-5474. When you call, please specify the following:

- The model name of the machine.
- The serial number of the machine.
- The voltages, phase, and cycle of the machine.

## CAUTION

**If you perform repairs yourself or have them performed by anyone other than a service technician authorized by Belshaw Bros., you do so at your own risk.**

## WARNING

**Disconnect the machine from the power source before disassembling, repairing, or wiring.**

See Parts List Drawing Insert Page.