



HOSHIZAKI CARE TECH-TIPS

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FACTORY START & CHECK by Lenny Bonner

Hoshizaki offers a Factory Start & Check service that may be purchased by National Accounts or distributors. When a Start & Check is purchased, Hoshizaki is responsible for verifying installation and starting the ice maker into production.

Only HCSR's are utilized to perform these factory start-ups. If you are contacted by the factory about a Start & Check, the location and a contact person at the job site will be provided. Please call the site before attempting to complete the Start & Check.

The ice machine and bin should be completely installed before you reach the site. Hoshizaki is not responsible for any charges resulting from completing the installation of the equipment.

Most often, the Start & Check is purchased at the same time as the equipment. Therefore, you may be contacted by the factory before the equipment is actually installed. A preliminary call should be made to the contact to verify that the site is ready for your inspection. The contact should be able to provide you with a scheduled date. If not, send them your business card and ask that they contact you when ready.

Request advanced notice if necessary.

Once at the site, inspect the unit for the following:

- confirm proper electrical supply to the unit. On 208/230V 1 phase units with 140V supplied, if there is a "high leg" or "stinger leg", it should be connected to the black lead (compressor circuit) in the junction box.

- on three phase units, the selector switch on the voltage transformer must match the incoming voltage (208V or 230V) **before the power is switched on.**
- the remote condenser fan power is supplied by the ice machine. There should be no outside electrical or neutral source utilized.
- Visually check the complete unit and note any signs of damage before you attempt start-up. (Be sure to check the control box for damage resulting from someone attempting to start-up a miswired unit prior to your arrival. Look for burnt spots on the back side of the control board or any other signs of electrical damage.)
- KM-800 and smaller units require a 3/8" OD dedicated water supply line. Larger units require 1/2" OD dedicated water lines. All flakers require 3/8" OD dedicated lines. All piping and fitting should be sized appropriately.
- Unit should be level (front to back and side to side)
- Any external filter system and fittings should be adequately sized
- drains should be 3/4" in diameter and vented (except 3/8" condensate drain)

After confirming that the ice machine is installed properly, turn the unit on. Complete a 10 minute check out of the unit confirming normal operation. Verify that the bin control cycles the unit off 6 to 10 seconds after ice touches the bulb. Adjust if necessary.

This is a prime opportunity to sell the customer on a preventative maintenance program or a filter system if needed.

Complete the green warranty registration provided with the unit and the Start & Check form. Double check the model / serial number of the equipment and have the customer sign the form. Drop the

registration card in the mail. It is a good idea to mark the install date in a visible place inside the compressor compartment with a black magic marker for future reference. Put your company sticker or the one provided by Hoshizaki on the unit as a reference for future service requirements.

When the job is complete, review the operation of the equipment with the customer and give them the instruction packet provided with the unit. Ask them to complete the pink warranty card in the packet to initiate the warranty, and drop it in the mail.

To receive payment for the Start & Check, attach your invoice to the Hoshizaki Start & Check form and forward to appropriate party for payment. Please forward invoice to the Hoshizaki location that requested the service: Dallas, Los Angeles, New York, Ohio, or Peachtree City, GA (factory) location.

If at any time in the process, you have questions, do not hesitate to call Hoshizaki for assistance.

SERVICE TIP ~ Bin Control

Bin controls typically fail with the contacts fully closed or fully open.

If the contacts fail fully closed, obviously the unit continues to run when ice touches the thermostatic bulb. This backs ice up into the ice-drop zone and typically causes a freeze-up in the evaporator section. This can also occur when the bin control is adjusted too “cold”.

If the contacts are stuck open, the unit will not operate. Open contacts are generally the result of a broken capillary tube or an internal mechanical problem. On “C” or “Alpine” board units, a quick check for open contacts is to switch the unit to the wash position. If the

pump starts, the switch is closed. If not, check for ice on the bulb, then check the contacts with a VOM.

In either case, the bin control must be replaced. Replace the control using the new bracket provided. Always check the adjustment of the bin control to assure that the unit shuts down within 6 to 10 seconds of ice being placed on the capillary tube (bulb). Allow bin control to close naturally to assure unit cycles back on.

KM WATER SUPPLY TUBES

In November of 1993, Hoshizaki implemented a change in the water distribution tubes for KM-450/500/630/800 units. A similar change was implemented in the KM-1200/1600M series in July 1994. These changes are described in Hoshizaki Service Bulletins SB93-0009R and SB94-0010 respectively.

As of January 1995, this change was implemented on the KM-250B series units. These parts can replace the existing tube system when changed as a set.

The new part numbers are:

Distribution tube	1A0066-01	Qty. 1
Water supply tube	2A0198-01	Qty. 1
Elbow	4A0393-01	Qty. 1
Plug	4A0176-01	Qty. 2

R-134A MODELS

Hoshizaki is presently Manufacturing one model ice machine utilizing R-134A refrigerant. This is the F-250B Flaker. All other models are now manufactured using R-22 refrigerant.

We chose R-134A on this flaker because there was no small R-22 compressor which fit this application and provided adequate efficiencies. The R-134A - compressor combination has fill both requirements.

You will also find that we utilize R-134A in the KN Sushi cases and the KD-90 Display case. These are small refrigeration systems where R-134A has proven to work well.

COMING NEXT MONTH...

1. A Summer Reminder
2. Flush Mounted KM's
3. Control Board Tips Volume 116 Page 2