



HOSHIZAKI TECHNICAL SUPPORT TECH -TIPS

Rodd Burger
Writer/Editor

Hoshizaki America, Inc.
618 Hwy. 74 South
Peachtree City, GA 30269

Volume 181
July 18, 2001

Ph: (800) 233-1940 Fax: (800) 843-1056 E-mail: techsupport@hoshizaki.com

New DCM-270BAH By Lonnie Clayton

The DCM-270BAH is one of Hoshizaki America's newest models and will replace our current DCM-240BAF.

The DCM-270BAH will have the same footprint and basic cabinet as the older DCM-240BAF. You will however, notice a few minor changes to the front panel. The power lamp is now blue. We have also eliminated the ice and water rocker switches. These have been replaced with individual dispense buttons for the ice and water. The ice-making switch has been eliminated from the front panel. This switch was used to stop the unit from making ice while it would still be capable of dispensing. Many times this switch would be inadvertently moved to the OFF position and the unit would be out of ice when needed. The unit can be turned off using the main power switch located underneath the middle panel.

The washable air filter remains accessible from the right side of the machine. Like the DCM-240BAF the airflow will still enter on the right and exit through the top panel.

The installation requirements for this machine will remain the same as the current model. For those not familiar with this installation, here is a brief run down. You will need to supply a 3/8" water line, a 3/4" drain line and 6 inches of clearance around the entire machine. You should also allow for room at the top for auger removal, cleaning the unit, or replacing bearings. This model can sit flat on the cabinet with a drain hole drilled into the cabinet top for proper draining or 4-inch legs can be attached if drilling into

the cabinet is not possible. The electrical requirement is for a single dedicated 115V 15-amp circuit.

There were also some changes made inside the machine. The compressor has changed to an ASE24C3E-1AA-252 Copeland compressor. The bin control has also changed. We now have a magnetic bin control as opposed to the current micro switch bin control. This new magnetic bin control is a reed switch and operates very similar to our float switches. This change does not effect the bin capacity of 8.8lbs. The magnetic bin control is not interchangeable with the control on the DCM-240BAF.

The dispensing solenoid has also changed. The new style solenoid part number includes a rectifier, which allows the coil to use DC voltage. This gives a much quieter operation as the shutter opens and closes. There were no major changes to the ice making components, therefore, the style and shape of ice will be the same as the DCM-240BAF.

This model is extremely useful in hospitals (maternity wards especially), nursing homes, small businesses, and large office break rooms. Please contact your local Distributor for pricing and availability.

SA NUMBERS

Many times we receive calls stating that when the service tech ordered a part, what he received was a SA kit. This article will explain what these kits are about.

SA references a “Service Assembly”. In most cases these kits were developed so that we could include other parts that should also be changed when replacing the defective part. One example where you will often find the SA kit is on compressors. When you order a compressor the kit will include the compressor as well as the start components and also a drier. We feel that it is important to change these items at the same time as the compressor to avoid a repeat failure on the unit.

You may also see SA numbers on other parts. It is sometimes necessary to sub the original part to a replacement part due to a vendor change. Creation of these kits would also be necessary if the original part is no longer available. In these cases you may find instructions for the replacement included in the kits. These instructions should be reviewed thoroughly and the new parts replaced as instructed.

Any time you have any questions about these or any replacement parts feel free to contact our Technical Support Department at 1-800-233-1940.

Service Q&A

Answer by Miguel Maldonado

Question: I have water overflowing from the water sump tank and splashing into the bin every time the unit is in the harvest cycle. Why is this occurring?

First, let me say that 9 out of 10 callbacks on a new unit are related to the machine not being installed according to the factory specs. This problem is no exception. When we receive calls about this problem the solution usually lies in the external drain circuit. When installing a Hoshizaki ice machine, the technician should refer to the Instruction Manual that comes with the machine. You can also find information on installation in the Hoshizaki Technician's Pocket Guide (TECH-SPEC).

All Hoshizaki icemakers require a dedicated ¾” ID drain for the reservoir. This can be plumbed using either copper or PVC. On KM's that use water cooled condensers, the outlet of the condenser should be ½” and piped separately from the sump drain. On all Hoshizaki KM units manufactured after 1988, the

unit will start in the one-minute fill cycle. Within 60 to 90 seconds you should see water coming from the sump drain. This will assure us that the unit has good water volume to the machine. During the harvest cycle the water valve will remain open. This water is used to flush the bottom portion of the sump. The water coming in will help agitate the minerals that lie at the bottom of the sump tank and flush them down the drain.

Now we will address the problem, because of the flushing action in the harvest cycle, it's important that the reservoir drain not be smaller than the required ¾”. The drain should also be vented; this is typically done using a tee at the back of the unit. The unit drain should never be tied in with the bin drain. Proper plumbing practices should be followed when running the drain line to the floor drain.

The two items that most often cause this problem are: (1) The sump drain is too small, or (2) there is a restriction in the external drain circuit. To find out where the restriction lies, cut the drain about 12” below the vent tee and place a 5-gallon bucket to catch the water during the harvest cycle. If the water stops overflowing inside the bin, the restriction is further down the external drain system. If the problem still occurs, then the restriction may be in the machine, between the standpipe and the drain outlet. Slime or other build up normally causes this type of restriction in the drain. You can usually blow nitrogen or Co2 through the drain to clear the restriction. If this restriction is found to be slime or algae build up the entire machine should be cleaned and sanitized.

I hope that these suggestions will help you solve the problem of the reservoir overflowing and water falling into the bin.

COMING NEXT MONTH...

- 1.-AAC/-SSB Reach-in Comparison
- 2.Reach-in shelf information
3. Service Q & A