



HOSHIZAKI TECHNICAL SUPPORT TECH -TIPS

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DM-90A DIP SWITCHES AND ICE FLOW ADJUSTMENTS

The DM-90A was introduced in Tech Tip volume 173 dated June 2000. The DM-90A is a dispenser that can dispense either cubelet ice or cubed ice. The unit is designed as a manual fill dispenser.

There are several "DIP" switches located on the control board. These switches allow us to make minor changes in the operation of the board, providing flexibility to use this board in other applications.

The factory setting for all "DIP" switches on this model is in the "OFF" position. These switches should remain in the factory setting at all times. If any of these switches are moved to the "ON" position the dispenser may not operate correctly.

As mentioned earlier, this unit is capable of dispensing both cubelet, as well as, cubed ice. In order to do this you may need to make an adjustment to the flow rate bracket. This adjustment is detailed in the Instruction Manual on page 13. Below you will find a basic summary of the instructions.

You will find the flow rate bracket behind the front panel just above the shutter assembly.

For dispensing crescent ice, the flow rate bracket should be set at the highest position possible.

For dispensing cubelet ice, the flow rate bracket should be set at the highest position possible for fast dispensing or the lowest position for slow dispensing.

Make sure that the bracket is set in the correct position for the type of ice being dispensed. For more detailed instructions refer to the Instruction Manual or see Service Bulletin SB01-0006.

Note: The factory setting for the bracket is in the highest position.

If you have any questions or need more information please do not hesitate to contact our Technical Support Department at 1-800-233-1940.

SERVICE TIP: EQUIPMENT LOGS

By Rodd Burger

Wouldn't it be nice to work on a piece of equipment and know exactly what has been done to the unit in the past? Equipment logs can let you identify what other service techs have done or maybe even what you did to the unit last summer during those 12 or 14-hour days. This type of information can be recorded in a journal that includes what type of work was done, operating specs, etc. This notebook can be kept at the machine, on your truck or back at the office. This should not take the place of a detailed description of the problem and resolution on your invoice. This type of information is valuable to the customer and may be needed if the repair is to be covered under warranty.

I know this may sound to good to be true and you may be saying who has the time to keep up with it. If you look at the time that could be saved, I think you may find it is worth the effort. This is a common practice for many maintenance departments that take care of multiple pieces of equipment.

Even if a journal is not kept, there are certain items that should be noted on the unit. These items may be crucial to the service tech's ability to service the unit properly.

One of these cases is when a remote unit has been installed with a line set run over 66 feet. In these cases the refrigerant charge must be adjusted to allow for the longer line sets. It is important that the charge label be changed with a permanent marker to show any adjustments to the original charge. For more information on calculating refrigerant charges see the green and orange Tech Specs page 16 or SB99-0018.

In some cases our remote systems may be installed on factory authorized non-OEM condensers. This charge may be different than with a factory system. In this case the new charge should also be clearly identified on the charge label.

Since many of our R-502 systems are becoming quite old there are more and more refrigerant conversions taking place. How many times have you been to a unit that, not only are you unsure what the charge is, but you may not be able to determine what type of refrigerant has been used? It is important to note, on the machine that a conversion has taken place and the type and amount of charge that was used. (Hoshizaki recommends HP-80 as the replacement for R-502).

It is important in all of these situations that we leave a little information behind for the next tech. Who knows the next tech may be you!

WATER CIRCUIT HOSES

When a machine has many years of service under its belt it is sometimes necessary to do a little extra maintenance to keep the unit in good working order. One item that may need to be replaced from time to time is the hose in the water circuit. The hoses can become stained and although the unit has been cleaned and sanitized the hoses may appear dirty. The flexible hose can be purchased through your local distributor and is typically sold by the meter (about 3 feet). There are several different sizes, so it is important to order by model and serial number. You will normally need two

different sizes for each unit and normally one meter of each size will do the job. The cost to replace all the hoses on a unit is typically less than \$25.00 plus labor.

WATER VALVES

Whenever feasible, Hoshizaki makes every effort to use common parts. However, we can not do this with the water valve. There are many different water valves due to the difference in water flow rates required for each model.

It is important that the correct water valve be installed on the machine. If you were to put a KM-250MAF valve on a KM-2400SRF3 the unit will be starved for water and will likely experience freeze up problems. If you were to do the opposite the KM-250 would use much more water than necessary.

Since the valves look identical on the outside many times the wrong valve is used in the field. The part number is not listed on the part, however there is an item number that can help us identify the valve. For most valves the number will begin with (J24?-). SB97-0002R is a cross-reference of the water valve part numbers. If you have several valves and you are not sure of the part numbers you can use this list to identify what valve fits the unit that you are working on.

The life of the water valve can be reduced by hard water conditions. The part that is most affected by the scale is the diaphragm. This part can be easily replaced and is available as an individual part. Although there are many different valves there are only three replacement diaphragm part numbers. The diaphragm part numbers for most models are also listed on SB97-0002R. The diaphragms are a good item to keep on your truck. They are inexpensive and when needed can quickly resolve a "no ice" call.

COMING NEXT MONTH...

1. Introducing the DCM-270BAH
 2. Drain Problems
 3. Service Q & A
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