HOSHIZAKI CARE
TECH-TIPS

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THERMISTOR MOUNTING

The thermistor is mounted to the suction line and basically "monitors" the outlet temperature of the evaporator. During harvest, when the evaporator reaches 48° F, the thermistor resistance equals approximately 3.9 K-OHMS. A resistance of 3.9 K-OHMS starts the defrost completion timer on the control board.

During the remaining harvest and throughout freeze the thermistor resistance will vary with the outlet temperature of the evaporator. If the temperature reaches 127° F, the thermistor resistance will be approximately 750 OHMS which will cause the control board to shut down the unit on the manual reset high temperature safety.

The mounting of this thermistor is very important. The thermistor is held in place on the suction line by a copper cap (thermistor holder) and sealed using a high heat conductive sealant or heat sink compound. This compound seals out moisture and helps to assure even heat distribution to the thermistor.

Using the correct type of sealant is an important factor in mounting the thermistor. Effective December 1, 1994, Hoshizaki will include a 6.4 gram tube of heat sink compound with each thermistor shipped from the Service Parts Department. We will also include instructions for mounting of the thermistor.

The heat sink compound part number is 4A0683-01. This small tube is also available individually and should be ordered for any thermistors you may have in inventory. You may also use Radio Shack sealant part number 273-1372 or equivalent.

When remounting a thermistor you should always clean the suction line and copper cap thoroughly before replacing the thermistor sensor and sealant. Once the sealant is applied and the cap is replaced. It should be secured to the suction line using a strip of foil tape and insulated properly according to the instructions provided with the thermistor.

Remember that proper mounting of the thermistor is critical to assure proper operation.

NON-OEM CONDENSER APPLICATIONS

Periodically, we receive a request to install a Hoshizaki Remote Condenser unit on a condenser that was not manufactured by Hoshizaki. Use of a NON-OEM condenser is possible if it meets Hoshizaki specifications and the proper approval process is followed.

Remote units are not released for shipment without a Hoshizaki condenser unless a **"Non-Hoshizaki Condenser Application"** is filed and approved. This application must be requested by the Dealer or Distributor, then completed by the Condenser Manufacturer and returned to the Hoshizaki Care Department for approval.

Hoshizaki will check the manufacturers specifications against the remote requirements to assure a proper match-up so that efficient proper operation will occur.

Once the approval is given, the remote unit can be released without a Hoshizaki condenser. There are several manufacturers of multi-pass condensers which we work with regularly. Like Omni Temp, Cold Zone, Heatcraft / Bohn, Margaux and, others. We have also worked closely on McDonald's installation of MAC 6 condenser units and the new MAC"V" and "G" units.

A NON-OEM condenser must include the proper headmaster installed at the unit and be pre-charged before connecting to the Hoshizaki remote. The KM-2400 does not require a head master at the condenser since it has one included in the remote head.

The recommended refrigerant charge information for the NON-OEM condenser is provided during the approval process.

As you know, it is important to have a matched condenser coil, proper air flow and heat rejection in a remote application. Sometimes this requires adjustment to the refrigerant piping and even additional controls in some cases to make a NON-OEM condenser match-up with our equipment.

Hoshizaki does not approve any remote applications which request to use a Hoshizaki remote head with a condenser manufactured by another ice machine manufacturer. We have found that the specifications do not match our specifications.

If the unit is installed to a miss-matched condenser the results could be poor production and or damage to the compressor or other components. Non-approved installations will result in **NO** warranty coverage of the refrigeration system of effected components.

If you are called on to install a NON-OEM condenser application, contact the Hoshizaki Care Department to assure that the approval process is complete. This will serve to protect you and the customer from any unnecessary problems. The Hoshizaki Care Department will work closely with the installer to assure proper installation and operation of these special applications.

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New KM Instruction Label

A new label has been added to the rear of all KM series units. The label is white with red letters and is placed under the 1/2" F.P.T. potable water connection.

The label states the following:

THIS ICE MAKER SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE NATIONAL STATE AND LOCAL CODES.

PLEASE USE A MINIMUM OF 1/2" OD TUBING FOR KM-1200 AND LARGER MACHINES AND A MINIMUM OF 3/8" OD TUBING FOR KM-800 AND SMALLER MACHINES. IF THE WATER SUPPLY TO THE MACHINE IS RESTRICTED, DAMAGE FROM FREEZE-UP MAY OCCUR.

NEW SERVICE LITERATURE

This training season, the Hoshizaki Care Department will be providing a new Technician's Pocket Guide to everyone who attends the Hoshizaki Service Seminars.

We call this guide the Tech-Spec.'s. You will find it to be a complete servicing guide for all R-22 equipment.

The Tech Specs contains complete performance data (by model), wiring diagrams, water and refrigerant circuit diagrams, charge data, as well as, operational sequence and component information.

The Guide is spiral bound and color coded R-22 green to represent all R-22 equipment.

A Tech Spec Guide for older R-502 equipment is in the works and should be available in the Fall.

Additional copies of the Tech Specs will be available through your local distributor for a nominal fee. I am sure you will find this guide a big help in servicing Hoshizaki equipment.

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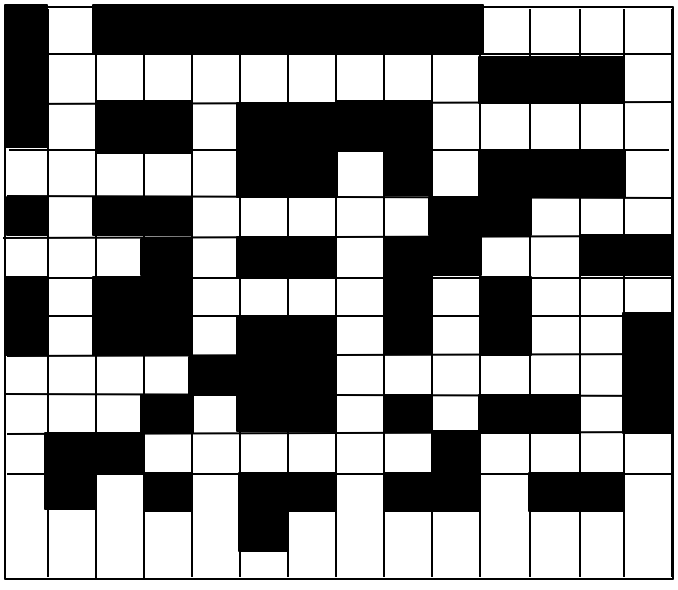
Here are the answers to the crossword puzzle in Tech Tips Volume . How did you do?



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COMING NEXT MONTH...

1.Cold Room Applications...
2.Why Flakers Grind to a Halt...
3.Remote Condensers...