Subject: Frosting Compressor or TXV

SCOPE
Multiplex soda equipment Model 50 series.

SYMPTOM:
Frosting on the suction line to the compressor in the compressor compartment or large ball of ice around the expansion valve.

No detrimental affects will occur to compressor under this condition. This is due to long run cycles with short off cycles (heavy use). See Figures 1 & 2.

Normally this is the result of an abnormally large ice bank within the water bath of the Multiplex unit. The large ice bank is in the area of the expansion valve, sometimes with a ball of ice built up around the valve. Frost can build upon the compressor and suction line. When the compressor shuts off, this frost will melt resulting in water on the floor under the unit.

ACTIONS:
To remedy this situation, move the ice thickness probe:

- Melt enough of the ice bank to provide access to the ice bank probe.
- If there is a large ball of ice around the expansion valve, also melt that ice ball.
- Move the ice bank probe from the left side of the bracket to the right side of the bracket.
- When moving the ice bank probe, make sure the “step” of the ice bank probe is facing the center of the water bath. See the attached drawing.

Some ice bank probes may have the words “THIS SIDE AWAY FROM BRACKET”. Please black out and ignore that instruction.

A defective expansion valve may also cause this problem. Do not ignore this if the ice thickness probe was previously moved.

FURTHER ACTIONS
Contact Manitowoc Beverage Systems Service Sellersburg Indiana if you have any questions or concerns: 800-367-4233.