



STATE OF MICHIGAN  
DEPARTMENT OF AGRICULTURE  
LANSING

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**DATE:** August 20, 2008

**TO:** All Local Health Departments (LHD's)  
Attn: Medical Director / Health Officer / Director of Environmental Health  
Michigan Department of Agriculture (MDA)  
Attn: Food and Dairy Division Managers

**FROM:** Barb Coy, R.S. Food Service  
Specialist  
Food Service Program  
Food and Dairy Division

A handwritten signature in cursive script that reads 'Barbara Coy'.

**SUBJECT:** Plumbing Related to Food Service

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The Michigan Food Law 2000, as amended took effect on April 1<sup>st</sup>, 2008 adopting the FDA 2005 Food Code. In certain sections of the food code, references are made to the Michigan Plumbing Code of 2006.

Local Health Departments are only required to enforce sections of the Michigan Plumbing Code, as amended 2006, when a citable plumbing violation in the 2005 Food Code references an applicable LAW.

**Carbonator backflow devices:**

The FDA 2005 Food Code section 5-203.15 requires a double check valve with intermediate vent to be preceded by a screen of not less than 100 mesh to 25.2mm (one inch). This screen shall to be installed upstream of the ASSE 1022 device and downstream of any copper in the water supply line. There are three ASSE carbonator devices with internal 100 mesh screens.

- Apollo (also goes by Conbraco) model CBBP series and 4C-100,
- Wilkins/Zurn model 740, and
- WATTS model SD3

Some carbonator pumps have an internal 100 mesh screen that meets the requirement for section 5-203.15. These include the Procon series 1 Rotary Vane pump, used on McCann and Cornelius carbonator units, though there may be other manufacturer's models.

A violation would be cited under section 5-203.15 when an ASSE 1022 is missing or not properly installed, no screen has been installed with the ASSE 1022, or there is a question as to whether a 100 mesh screen is properly installed.

Please make note that the Chudnow model S470D is not approved under the ASSE 1022 standard. This device does not meet the venting requirements for an ASSE 1022.

Section 5-203.15 is a critical violation and should be corrected within the 10 day time frame.

### **ASSE 1022 Backflow Prevention Device Location:**

The ASSE 1022 devices that have an internal 100 mesh screen may be located on either side of the carbonator pump as long as it is between the carbonator and any copper pipes. ASSE 1022 devices without an internal screen should be located on the downstream side of the carbonator pump that has an internal screen.

### **Cappuccino Blender Rinsing Unit Installation:**

Many coffee houses use a piece of equipment better known as a Rinse-O-Matic to rinse the pitchers and blenders, used in cappuccino machines, between uses. This is a cone shaped unit with a pressure valve at the tip, and when depressed, sprays tap water into the pitcher. The unit is generally set inside a sink bay. The potential hazard is the possibility of gray water and/or chemical back siphonage into the potable water supply line. The minimal plumbing installation for this type of unit is as follows:

- Provide an air-gap on the sink drain line,
- Install a double check backflow device that meets at least the ASSE 1024 standards on the both the hot and cold water line to the unit.
- Disconnect the hose from the unit to the faucet at the close of each day to relieve back pressure on the backflow device.

At this point in time only clear water is used in these rinse-o-matic type units. If a chemical dispenser is added the plumbing installation process would need to be reevaluated.

### **Culinary Sink Drain Line:**

There have been questions recently about drain line connections for culinary and ware washing sinks. These policies have not changed since 2000. Both the Food Code and the Michigan Plumbing Code requires an air gap for a culinary sink (Food Code section 5-402.11 and Plumbing Code section 802.1.1). If food preparation is done in the ware washing (3-compartment) sink, the bay(s) used for food preparation must be air-gapped.

### **Manual Ware Washing Sink Drain Lines:**

For ware washing sinks not used for food preparation, Food Code section 5-402.11(D) refers to the Michigan Plumbing Code, which allows a direct connection for these drain lines.

**Dish Machine drain lines:**

Dish machine drain lines have been required under the Michigan Plumbing Code, section 802.1.7, to discharge through an indirect connection by way of an air break or air-gap since 2003. Section 802.2 of the Michigan Plumbing Code stipulates that an air break must discharge into a waste receptor or standpipe. A discharge pipe that is directly connected and is within 5 feet of a floor drain does not constitute an air-break if constructed after December 31<sup>st</sup>, 2003.

Section 5-402.11(C) of the FC makes allowances for direct connection of a dish machine drain line if allowed by Law. In this case the Michigan Plumbing Code takes precedence.

This requirement will be required on all new or updated air break applications.

**Distribution List:**

Local Health Department Environmental Directors and staff

MDA Food Safety and Inspection Program Supervisors and staff