Subject: Cleaning a Circulating System

SCOPE
Remote Soda Refrigeration Units - MODELS 2803, 11M, 42, 44 & 50

Recirculation pumps on Multiplex soda systems can wear out over time. The graphite vanes in the pump may sometimes crack and break. This may allow some of the graphite powder into the soda water system. The graphite must be removed from the system before installing a replacement pump. Any particles left in the system could damage or destroy a new pump. Below is a step-by-step procedure for cleaning the system in the event this occurs.

SYMPTOM:
Stainless steel recirculating pump failure or black particles in the soda water on finished drinks.

ACTIONS:
1. Turn off the power to the circulator and carbonator.
2. Turn off the water/CO2 and depressurize the soda circuit.
3. Disconnect the inlet and outlet lines from the circulating pump and plug the outlet line.
4. Turn on the water to the carbonator and let it flow out of the inlet line for two minutes.
5. Turn off the water and turn on the CO2 until all the water is purged from the system.
6. Turn off the CO2, plug the inlet line and open the outlet line.
7. Turn on the water to the carbonator and let it flow out of the line that was attached to the outlet of the pump for two minutes.
8. Turn off the water and turn on the CO2 until all the water is purged from the system.
9. Turn off the CO2 and reconnect the inlet and outlet lines to the circulating pump.
10. If there is a strainer in the soda circuit, remove the screen and clean it.
11. Replace the screen in the strainer.
12. Remove all the valves that dispense carbonated beverages from the mounting block.
13. Turn on the water to the carbonator.
14. Open each water shut off at the mounting block until water flows freely from the block.
15. Turn on the CO2 and purge all the water from the system using all the mounting blocks.
16. Close the water shut off on all the mounting blocks.
17. Clean any particles from the water flow control on each valve.
18. Replace the valves.
19. Turn the power on to the carbonator.
20. Activate each valve until a smooth flow of carbonated water is dispensed.
21. Turn the power on to the circulator.

If you are unable to remove all the particles in this manner, remove the lines at the tee on the carbonator tank and at each U-bend. You will then need to blow each line individually with CO2.

FURTHER ACTIONS
- Install a strainer in the soda line just after the outlet port of the pump.
- Contact Manitowoc Beverage Systems Service if you have any questions or concerns: 800-367-4233.