

**MOTORIZED AUTOMATIC FLUSH & DRAIN-SYSTEM (MAFD) COMPONENTS:**

- Components are:
- (1) Flush Valve
 - (2) Time Capsule
 - (3) Relay with Base
 - (4) Pressure Control*

OPERATIONS:

At the end of the normal work day when the On/Off Switch is placed in the OFF position, the Flush Timer resets itself to prepare for the next flush cycle. (Note: This will happen whenever the power to the control circuits is turned off without regard to method used--i.e. On/Off Switch, Timer, etc.).

1. Control power turned off - time capsule resets.
2. Control power turned on.
 - a. Time capsule has 3 minutes delay.
 - b. MAFD powered through normally closed side of relay.
 - c. Heater contactor powered through normally open side of relay so contactor is locked out.
3. Time capsule times out after 3 minutes.
 - a. Relay is energized.
 - b. MAFD solenoid is de-energized.
 - c. Heater contactor is enabled.
 - d. Machine proceeds to normal operation.
4. Water level control is independent of MAFD circuits and will attempt to maintain proper water level. Water goes below low water cut-off probe "A", push low water reset button. If water input pressure is high enough to maintain a high water level, you will not have to reset at this time.

IMPORTANT:

While the MAFD System eliminates normal blow-down, there is a manual valve provided to permit drainage or a manual blow-down if desired.

This automatic system will extend time between cleanings to approximately twice a year or in extremely hard water areas to 3 or 4 times a year.

*Safety Feature: The pressure control is designed to prevent the generator from flushing until the pressure reaches 5 lbs or less.