

# MAINTENANCE

## WATER QUALITY MANAGEMENT SYSTEMS

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### PERIODIC MAINTENANCE

Splashpads vary in their specific maintenance requirements due to differentiating factors such as Splashpad size, bathing load, water chemistry, operating environment, and climate. Before setting your maintenance schedule, it is important to first identify the level of maintenance required to keep your WQMS continually operating at peak efficiency. Accordingly, we recommend that you monitor your WQMS daily, performing the following maintenance for at least one week from initial startup:

#### DAILY

- Filter - depending on the initial holding tank condition, you may need to backwash the filter several times in the first week. To determine if backwashing is warranted, you must monitor the flow and pressure. Backwash the filter when the flow is 30% less than original flow value (the value when the filter was clean) or when pressure on the gauge is 10 psi higher than the startup value on the filtration line.
- Chemical controller - Monitor the chemical controller for abnormal fluctuations.
- Chemicals - Monitor the levels of chlorine (solid or liquid), muriatic acid and/or CO2 and fill if required.
- Pump strainer - Clean the pump strainer when necessary.
- Y-strainer - Clear any debris from the Y-strainer so that it does not clog. A clogged Y-strainer will lower water pressure to the Splashpad's play events.
- Remove debris from the deck drain and basket.
- Keep the Splashpad area clean of any debris, dirt, grass and leaves.

#### WEEKLY

- Backwash the filter when the flow is 30% less than original flow value (when filter was clean) or when pressure on the gauge is 10 psi higher than the startup value on the filtration line.
- Perform a manual water test and, if necessary, adjust water chemistry to achieve proper range for free chlorine, total chlorine, combined chlorine, pH, total alkalinity and calcium hardness. If required, use potassium monopersulfate to destroy chloramines, see section 18 Water chemistry balance.
- Remove debris from the deck drain and basket.



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### MONTHLY

- Clean the chemical probes (see section 17 WQMS component maintenance - Probes).
- Calibrate the chemical controller pH level (see section 3.0 WQMS operator controls overview - Chemical controller).

### BEGINNING OF SEASON

- Inspect all major components and piping for signs of wear or damage.
- Inspect chemical probes for damage. If the probes were not stored correctly (tips kept wet at room temperature), they may not read correctly and replacement is recommended.
- Verify quality and quantity of the sand in the sand filter and replace if required.
- Clean the filter lid O-ring and lubricate it with silicone grease, such as DOW #30 or 40, GE 300 or 623 lubricants.

### END OF SEASON

- Inspect all major components and piping for signs of wear or damage.
- Inspect chemical probes for damage and store them at room temperature with the sensor caps in place or with the tip immersed in a sealed container of water to keep the probes wet.
- Verify the quality and quantity of the sand in the sand filter.
- Make a note of all requirements and repairs that should be addressed prior to system startup.