# **Recirculation System**

Aquatix' recirculation systems allow for splash pad design to focus on creating enhanced water play in a safe environment without being dictated by water consumption concerns. When utilizing a recirculation system, product selections are based on their play value, product flow rates, and interactive value. ARC's recirculation system provides this enhanced experience in a water quality treatment system that is safe & easy to operate. Each recirculation system meets or exceeds local health department specifications for water quality.

#### 1 Activation Bollard

Touch post activator

## 2 Ground Spray

Flush spray feature with various nozzle effects

#### 3 Embed Pod Drain

Drain to waste to eliminate standing water in ground spray pod

## 4 Collector Box

Main drain with dual port to collect all splash pad water to return to tank &/or waste

#### 5 Drain to Waste Valve Box

To have electrical solenoid valve for diverting rain water to waste

#### 6 Drain Line to Waste Take waste water to sanitary or sewer system

7 Water Play Structures

Above grade spray feature with various water activities

#### 8 Underground Water Reservoir Tank

To be pre-fabricated & pre-plumbed with water level control, inlet loop, floating skimmer, & submersible pump out system

9 Lockable Man Way with Ladder Access Provides easy access for maintenance of water reservoir tank

## 10 Distribution Manifold

Pre-plumbed, pre-fabricated with winterization blow-out-port

#### 11 Manual Valves

Manually control each spray feature's spray height and distance

#### 12 Feature Pump Skid

UL listed, pre-fabricated, & pre-plumbed feature pump skid with adjustable legs

## 13 Filtration Skid and Automated Chemical Controller

UL listed, pre-fabricated, and pre-plumbed filtration skid & automated chemical controller

#### 14 Sand or Cartridge Style Filter

Provided with sand media or cartridges

## 15 System Control Panel

UL Listed Control panel for total system controls and feature operation controls including operational hours, duration of time, sequencing of events, & on/off controls.

16 Main Power Supply

Typically 460-230V, 3 Phase, 60 Hz & 115/20V, 1 Phase, 60 Hz

## 17 Chemical Treatment

Ph adjustment reservoir and pump.

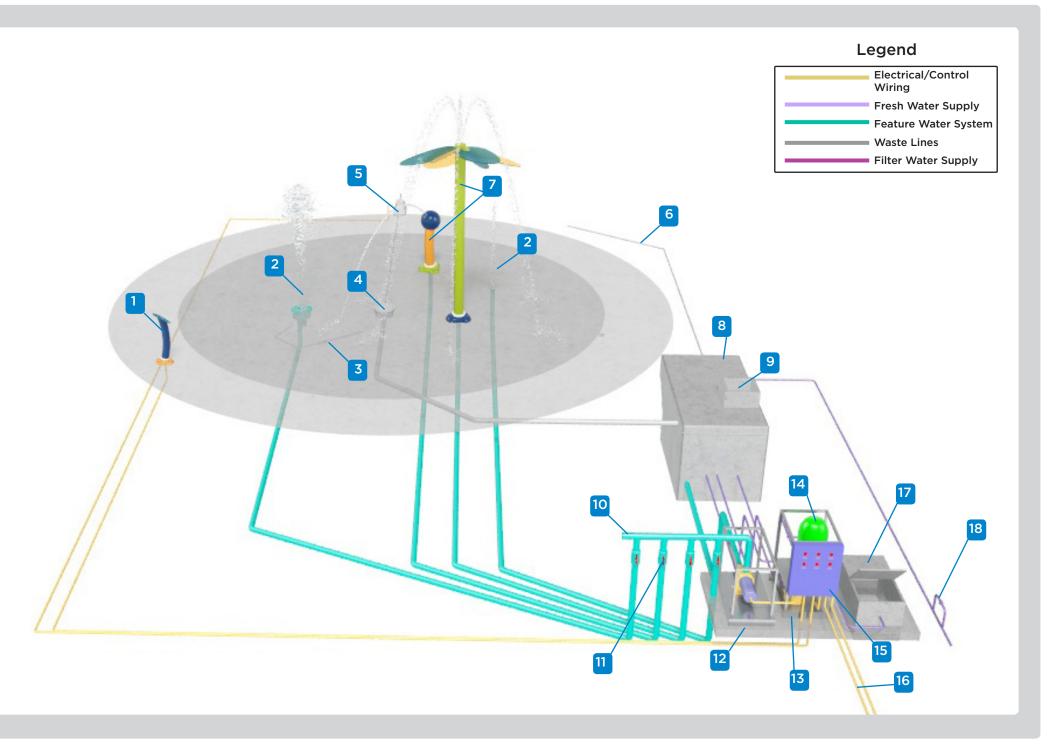
#### 18 Water Fill Supply

Municipal water supply with pressure regulator (20 to 30 PSI) & back-flow preventer (typically 1")

#### \* Optional Equipment

Above or below grade equipment enclosures, UV sanitization system, & In-line water heater





# **Recirculation System Overview**