STRESS-FREE EXPERIENCE
The reliable solution to member and guest satisfaction

CLEAR. CONTROL. CONNECT.
Making it easier to maintain positive guest experiences

The Kuntze double-gold standard

Kuntze offers with gold sensors, Stabiflow and ASR® an exclusive technology package that helps you to maintain safe, clear and pleasant pool water for guests while simply satisfying regulatory requirements. The Kuntze pool and spa system provides the consistent automatic chemical dosing and the 24/7 accuracy of monitoring. Our reliability means fewer untimely pool and spa shutdowns and high guest satisfaction.

> Safer for guests
The Kuntze Krypton® Controller accurately measures and consistently controls chlorine and pH levels in pools and spas. In addition, it measures water temperature and offers the option of total chlorine, conductivity and ORP measurements.

> Reliability measurements prevent surprises
Kuntze’s innovative design of double-gold sensors with counter electrodes, in combination with Stabiflow® which controls the flow of water past the sensors, assures precise and reliable feeding of the chlorine. These critical system components help keep your pools and spas open and guests happy.

> Reduction in maintenance time and costs
Kuntze ASR® self-cleaning technology minimizes the need to calibrate chlorine and reduces manual cleaning of the sensor. It provides effective removal of fats, greases and other contaminants found in swimming pools and spas. This fully automated cleaning system can be set to clean once a day to once a week, depending on the contamination level.

> Cloud Connect® 24/7 monitoring and remote access
It’s all about reducing pool shutdowns and untimely emergency service calls. Cloud Connect® helps your operation maintain consistent, high quality standards. Troubleshooting can often be solved remotely. It promotes faster response time and boosts guest satisfaction.

“When it comes to chlorine, a reliable measurement is the basis for efficient control and greater customer approval.”

Dr. Fabian Kruse (Head of R&D)
**Optimizing guest experiences**

It starts with clean, odor-free water. Pools that are properly maintained reduce problems like red eyes, itchy skin, unpleasant odors and waterborne illnesses. These can ultimately result in poor guest experiences or unwelcome pool shutdowns. And no one wants the hassle of a weekend shutdown.

**Successfully overcoming operational challenges**

The biggest culprits of pool and spa problems are from your guests. They bring in an accumulation of perspiration, body oils, lotions, and body fluids that build up on sensors and lead to inaccurate measurements.

Sensor fouling causes measurement drifting. As chlorine residual gets out of control it triggers an emergency intervention. If the sensor is not manually cleaned in time, the pool or spa needs to be shut down.

**Kuntze advanced technologies improve accuracy and safety**

> **Sensor fouling is minimized, chlorine residual drifting controlled**

Accurate chlorine residual measurements boost guest experience and keep pools and spas open 24/7. When chlorine levels drift too far it can trigger shutdowns. Typical measuring systems require frequent sensor cleaning: manual cleaning (Brand A); mechanical cleaning with insufficient performance (Brand B). If preventative maintenance is not performed in a timely, consistent manner, the chlorine residual drifts out of control.

Kuntze Automatic Sensor Cleaning (ASR®) minimizes fouling of the double-gold sensor and assures reliable, accurate measurements. While oxygen is naturally found in water and can interfere with the sensitive measurement process, gold is immune to this interference.

<table>
<thead>
<tr>
<th>Chlorine residual levels</th>
<th>Customer complaints • potential of unsafe toxic level • pool shutdown • odor &amp; eye irritations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Too high &gt; 3 ppm</td>
<td>Drifting Brand A</td>
</tr>
<tr>
<td>Target = 2 ppm</td>
<td>Drifting Brand B</td>
</tr>
<tr>
<td>Too low &lt; 0.5 ppm</td>
<td>Drifting Brand A</td>
</tr>
</tbody>
</table>

Risk of waterborne infections • pool shutdown
Advanced technologies that reduce labor time

Sensor fouling is minimized, calibration cycles significantly reduced

Contaminated sensors don’t read correctly and could result in emergency procedures and shutdowns. If not handled properly, fouling triggers a pool shutdown and unhappy guests.

The patented ASR® Automatic Sensor Cleaning system is incorporated within the Kuntze software. Time-consuming manual cleaning and chlorine calibration is nearly eliminated. Plus, the cleaning program can be set for the evening, when pools are not in use.

Kuntze technology significantly reduces service requirements while enhancing brand satisfaction

This chart reflects the average required pool/spa service time per week of 4 installed systems. It compares the manual and mechanical methods to Kuntze Automatic Sensor Cleaning. The Kuntze ASR® system relieves staff from hours of sensor cleaning and recalibrating.

<table>
<thead>
<tr>
<th></th>
<th>Service / Labor Time</th>
<th>Brand Satisfaction</th>
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</thead>
<tbody>
<tr>
<td>Kuntze ASR®</td>
<td>Only 15 minutes of service</td>
<td>★★★★★</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Average of 3.5 hours</td>
<td>★★★</td>
</tr>
<tr>
<td>Brand B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manual</td>
<td></td>
<td>★</td>
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<tr>
<td>Brand A</td>
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Less pool and spa service requirements free up maintenance staff

Standard controllers often require 25% of an employee’s time, taking that person away from other maintenance tasks. Kuntze’s high quality, automatic feed systems reduce maintenance tasks to a fraction of the employees time. These time savings can be reallocated toward other projects.
High quality design and components for reliable results

> **Krypton® Multi Pool & Spa Controller**
  This compact system provides accurate and reliable measurement of disinfectants including: chlorine and bromine. Set the ppm to the desired level and the Krypton® Multi Controller automatically maintains that level, reducing the number of manual testing cycles.

> **ASR® Automatic Sensor Cleaning**
  This patented system is incorporated within the software of our instruments. It is the most effective way to clean electrode surfaces of the chlorine sensor and maintain the integrity of the measurement. No harmful chemicals are used.

> **Kuntze Zirkon® Double Gold Sensors**
  We’ve refined potentiostatic measurement with the use of gold measuring and counter electrodes on our open sensors. They are low maintenance and reliable with a long operational life.

> **Argon Stabiflow® Water Flow Regulator**
  This device ensures precise measurement of the chlorine product past the sensor at a constant flow of approximately 30 liters per hour.
Kuntze automatic alert system minimizes emergency shutdowns in operational upset situations

> The Krypton® Multi Controller is programmed for optimum ppm feed levels. However, operational upset situations, such as failure of the chlorine pump or an out of product event occurrence, can trigger untimely pool and spa shutdowns.

> Kuntze Cloud Connect® 24/7 remote monitoring program automatically sends an alert when levels are outside of the recommended ranges. The operator can take immediate corrective actions so pools and spas can stay open, maintaining the positive experience of guests.

Time-saving management tools

> Cloud Connect®
Remote troubleshooting that's faster and reduces need for on-site services. A major advantage for customers with multiple locations. This software measures, analyzes and logs critical data 24/7. View all critical operational pool and spa information, organized in dashboards, on any device to increase productivity while reducing maintenance cost.

> Desktop dashboard highlights
Easy, real-time monitoring for early detection of operational problems. Option for built-in alerts.