

CUSTOMER NAME: _____
ADDRESS: _____
CITY _____ STATE _____ ZIP _____
PHONE _____
EMAIL _____

LEAK DETECTION PROCEDURES

Swimming pools can lose water from a few different areas of the pool including: the pool shell/liner, the pressurized return lines, or the suction lines of the pool (skimmers/main drains). In an effort to help lessen the cost of the testing required to determine the leak's location, we ask the customer to perform some simple tests that can be done with only a bucket, tape measure, pen and paper. Listed below are the steps to take with instructions on their purpose and process.

STEP 1 – THE BUCKET TEST

The **Bucket Test** is a simple test that helps us understand the amount of water lost due to evaporation. We tend to see more evaporation from pools in the heat of the summer and if the nights are cooler than the pools water temperature. The test is simple and can be done in a 24 hr period.

Step 1 Instructions

Fill a bucket of water from the pool and place the bucket on a step in the pool so that water surrounds the bucket. This will keep the water that is in the pool and the water that is in the bucket at the same temperature. This is the baseline for the test.

Mark the water level of the water in the bucket and the swimming pool (on the skimmer). Document the time that the test begins. In 24 hours, re-visit the marked bucket and the skimmer. With a tape measure, measure the water lost in the bucket and then measure the water level at the skimmer from its originally marked level. Document the results below.

Bucket Test Start Time: _____

Bucket Test End Time: _____

Water Lost in the Bucket: _____

Water Lost in the Pool: _____

Difference: _____

STEP 2 – TESTING PLUMBING

Water lost from a pool plumbing leak can sometimes be determined with a simple test of running the pool for 24 Hrs. and shutting the pool off for 24 hrs. Follow the steps below to get the results.

Step 2 Instructions

Fill pool to an operating height that will be more than the loss that you think you are experiencing. This is a 2-part test and requires a tape measure, pen, and paper.

Part 1: With Pump on

Mark the water level in the pool and document the time that this was done. Set your pump so that it will run for 24 hrs. or longer to complete the test. After 24 hrs. measure with a tape measure the loss of water and document this information on paper.

Water lost with Pump ON for 24 hrs: _____

Part 2: With Pump off

Re-mark the water level in the pool and set your pump to OFF and make sure it will not come on for at least 24 hrs. In roughly 24 hrs, re-visit the marked water level and measure with a tape measure and document this information on paper.

Water lost with Pump OFF for 24 hrs: _____

With this information in hand, we can make an educated decision of where the water loss is coming from and help to avoid any costs that are unnecessary. If it is determined that the loss is in the plumbing, we would need to do a pressure test on all or part of the plumbing system. This test typically only tells us which plumbing line(s) fail to hold pressure but not where the leak is.

In order to attempt to locate a leak in the plumbing system we try using a sonar device where we listen to the plumbing system while injecting air into it. Our sonar system is the best equipment in the industry for locating the leak, however there is no guarantee that it will be able to locate the leak. Some reasons that make the sonar system results not totally perfect can be multiple leaks in the same line, soil types, or completely broken pipes. Many leaks are located using the sonar system resulting in huge savings to the customer.

If a leak is determined through the above testing to be in the structure/lining of the pool whether it be a gunite or a vinyl lined pool, we recommend that we dive the pool after a visual inspection.

Please give completed STEP 1 AND STEP 2 leak detection results to Signature Pool & Spas for further advisement on your leak detection service.

**Return Results to:
In person or by mail**

55 Pleasant Valley Rd
North Kingstown, RI 02852

By Fax

401-295-0330

By Web or Email

contact@signaturepool
andspas.com