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**Leak Test:**

Once the final system has been built it will need to run through several leak detection tests. These tests have been referred to as the ASHRAE soapy water test, or the bubble test. The bubble test will be conducted as follows: first, a supply of compressed air will be attached to the front of the electrolyzer which will push all stagnate air out of the final system. Keep the air flowing through the system at a steady rate. Once the air has been supplied to the system, the outside casing along with all connections interfaces will have a soapy water mixture applied to the surface. If any bubbles form at the mixture, then a leak has been found. If a leak has been found, the team will find a new way to ensure that the leak is fixed. After a resolution has been selected, then the system will be tested again. This process will be repeated until there are no leaks detected from the bubble detection test.

**Power Supply:**

**Pressure Gauge:**

**Valve’s:**

**Electrolyzer:**

**Nichrome Wire:**

**Material Storage:**



**Fuel Cell:**