Component testing of the Britton Model BP509

We rigorously test our components to insure the we are providing the most reliable product possible.

PUMP:

The pump we are using was chosen for both reliability and economy. The first 100 pumps purchased were tested 100% and all performed normally. We now test one out of every ten. So far we have found no failures.

PUMP TEST #1: The pump we are using has proven to be exceptionally simple and reliable. With the pump placed in a container full of water under power and pumping water it was placed in a freezer at -10°F. After 16 hours the pump was frozen solid in a block of ice. Still under power we allowed the pump to thaw at room temperature. After eight hours the pump had thawed and was pumping water normally.

PUMP TEST #2: We placed an obstruction in the pump impeller housing preventing the impeller from rotating. We then placed the pump in water under power for 24 hours. After removing the obstruction the pump operated normally.

Should a pump fail it is very easy and inexpensive (under $10.00) to replace. The manufacturer of the pump suggests that the pump will sustain damage if allowed to run dry.

FLOAT VALVE:

We test the float valves regularly. Under practical testing one valve malfunctioned due to contaminates. PVC particles from cutting the supply line pipe during installation was found in the valve. This resulted in our adding a removable and cleanable or replaceable screen filter in line just below the float valve.