

Test Conditions

The diagram below details the test stand and flow schematic for testing the LAKOS PWC-1040. The following conditions were in effect for purposes of recording the test results:

System pressure	: 50 psi
Flow rate through the separator	: 500 U.S. gpm
Pressure loss through the separator	: 13.3 psid

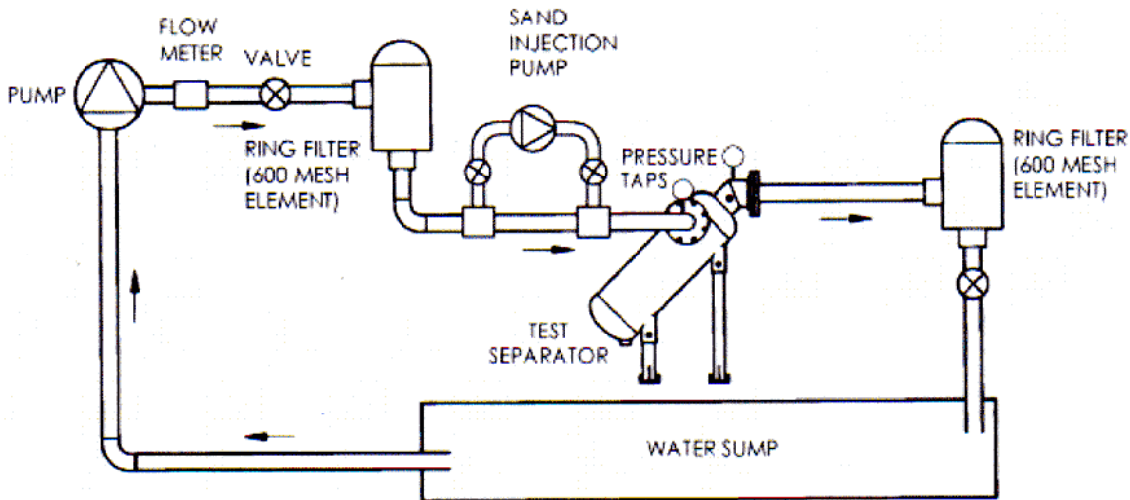
The sand sample injected into the system upstream of the PWC Separator via the pipe spool (see schematic details below) was quartz-silicon dioxide by Powder Technology, Inc. The particle sizes and blend was the following:

Mesh Size	Sand Sample Size
75-106 mesh	: 47.404 grams
106-150 mesh	: 48.001 grams
150-200 mesh	: 45.706 grams
Total sample size	: 141.111 grams

After injection of the sand sample and a reasonable time for the sample to single-pass through the test stand, sand was recovered from the separator and from the ring filter downstream from the separator. The following measurements were recorded:

Sample recovered from the PWC Separator	: 132.365 grams
Sample recovered from the downstream filters	: 2.395 grams
Total of sample recovered	: 134.760 (95.5% recovered)

Separator Efficiency: 98.22% sand removal



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