

ABSTRACT

Testing High Capacity Filter Cartridges

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Testing a high capacity filter cartridge is much more complicated than testing the performance of a standard 2.5 inch diameter filter. This article deals with the various factors that are associated with conducting a full scale test that involves flow rates as high as 800 gallons per minute, test dust capacities of up to 300 pounds, and test pressures of 50 psid.

The FTC Test Lab utilizes a 6' flow loop, twin 420 gpm centrifugal pumps, 1100 gallon water storage tank, 90 gallon contaminant tank complete with injection pump, flow meters, and pressure sensors. This lab can run gravimetric analysis, turbidity, and particle size distribution.