

North Palm Beach, Florida
August 10, 2012
Harmsco Filtration Products
HUR-HMC Energy Study

Energy Study

Patented Filter Housing Design saves up to 20% Energy Costs!

Harmsco Filtration Products announces that power consumption vs. throughput testing demonstrates that filter housings utilizing Harmsco's Tangential Entry designs are far superior to conventional cartridge-type filters and, at higher flow rates, actually save up to 20% in Electricity Costs!

Harmsco's intelligent design utilizes the energy available from pumping velocity of the water to create a rotational and centrifugal prefiltration flow that smoothly enters the filter housing tangentially, rather than slamming up against a baffle that consumes pump energy, which is typical of all other generic cartridge-type filter housings.

This one factor can save tremendous amounts of energy when considering operational costs of a water treatment plant.

Study

A study was performed that compares the electrical operational requirements (pump current, amps) between a Harmsco® Hurricane® HUR filter housing and a conventional multi-round housing. Test guidelines were within manufacturer's recommended flow rates (same for both filters).

Parameters

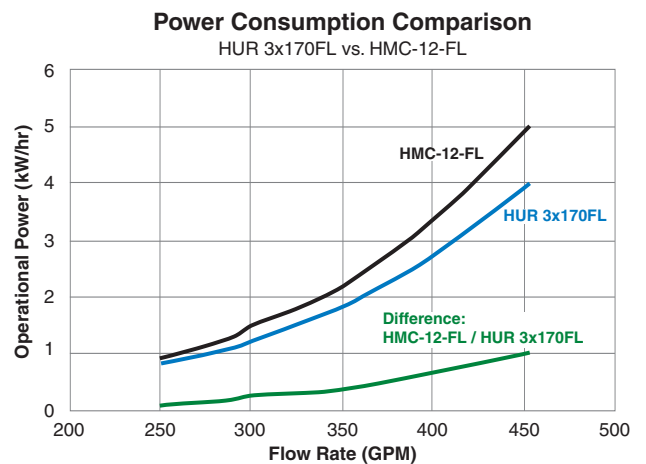
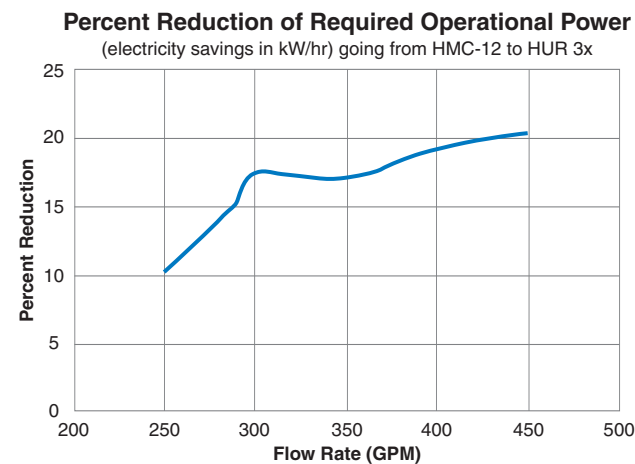
Tests were conducted with clean Harmsco® polyester cartridges; parameters were equal, such as 5-micron and same sq. ft. The test reservoir used was clean, no loading. Time elapsed: 3 hrs. per test.

Electrical

Flow rate was controlled by a VFD that controlled the pump by setting/adjusting the frequency. Current measured was going into the VFD (this is the electricity that is required). No flow control mechanical valves were incorporated which would distort (and make equal) the electrical draw.

Test Results

Test data indicates that switching from standard housings to Hurricane® can reduce electrical operating costs by up to 20% (at 450 gpm flow rate, see graphs below).



Cartridges Used In Test: HUR 3x170FL – three (3) Hurricane® HC/170-5 5-micron cartridges; HMC-12-FL – twelve (12) 40" 701 Series 5-micron cartridges.

Note: This publication is to be used as a guide. The data within has been obtained from many sources and is considered to be accurate. Harmsco does not assume liability for the accuracy and/or completeness of this data. Changes to the data can be made without notification. Temperature, Pressure, Flow Rates, Differential Pressures, Chemical Combinations and other unknown factors can affect performance in unknown ways. **Limited Warranty:** Harmsco warrants their products to be free of material and workmanship defects. Determination of suitability of Harmsco products for uses and applications contemplated by Buyer shall be the sole responsibility of Buyer. The end user/installer/buyer shall be liable for the product's performance and suitability regarding their specific intended applications. End users should perform their own tests to determine suitability for each application.



HARMSCO® Filtration Products

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