

Reputation for Quality and Reliability, Based on 50 Years of Innovation and Service

For quality-assured performance, the world's largest paint and coatings manufacturers rely on *Filtration Systems*® Division of Mechanical Mfg. Corporation for filter housings and a wide range of specialty bag filters. With more than half a century of experience designing and manufacturing liquid clarification systems, the ISO-certified company supplies customers throughout the United States, Mexico, South America and Europe. *Filtration Systems*® recently added major clients, in the fast-growing economies of Southeast Asia, Australia and New Zealand, to its roster of customers.

"When it comes to filtering liquids to exacting standards, high performance doesn't have to equal high cost," says Michael A. Goldman of *Filtration Systems*®. The Florida-based firm's new breakthrough product, the **Ultrafit® Welded - 700 Series Hybrid Composite Technology™ High Performance Liquid Filter Bag**, illustrates this statement. "Our systems increase our customers' productivity while ensuring consistent quality in their products," Goldman declares.

Using patented Hybrid Composite Technology™ (HCT), *Filtration Systems*' structured, rigid bag filter can clarify liquids to maximum Beta standards at a cost dramatically lower than that of cartridge and membrane systems for similar applications. These results have been verified by certified independent tests, and *Filtrations Systems*® has patented this innovative technology.

The *Ultrafit*® Welded "super bag" integrates four engineered, non-woven textile formats, each designed to perform a specific filtration function. This laminated composite is welded ultrasonically into tubular form, after the layers have been sequenced for maximum rigidity and

solids-holding capacity to guarantee efficiency. Because these filter bags are changed less frequently than other products in similar applications, downtime and costs are both reduced.

Besides generating substantial cost savings for users, the bags outperform cartridges at every level, says Goldman. "The filtration volume per minute, ease and speed of changing bags, perfect seals and the reduction of needed storage space for spares and disposal — these are some of the reasons the new bags have been so well received."

Proprietary Systems and Components

Filtration Systems invested nearly two years in the product's development and testing. It holds dozens of patents and trademarks. For the *Ultrafit* Welded 700 Series alone, proprietary items include HCT - *Hybrid Composite Technology*™, *PERMIA*™, *IP- Integrated Polymeric Support*® and *Zero-Bypass*® Collar. To assure proper sealing and optimum performance, it is recommended that *Ultrafit* Welded 700 Series, HCT be used with *Over-The-Top*® design filter housings and systems with a *Bullet*™ basket. These components are produced by *Filtration Systems*®.

Filtration Systems is a qualified Halar® applicator, so it has the ability to supply lined vessels and accessories coated with this PTFE fluoropolymer, manufactured

by Solvay Solexis, Inc. These coated systems are useful for filtering liquids that are incompatible with stainless steel.

Stringent quality control, meticulous training and rapid response to customers' needs are hallmarks of this private, family-owned company. It designs and manufactures, to exacting standards, a full line of filter media and liquid filtration accessories. These include support baskets, thermal jackets, chambers, basket pre-filters, valves and hardware. Many of the company's highly-skilled employees have been on staff for decades, an indication of the firm's stability and pride.

Please review the attached for details on the *Ultrafit*® Welded - 700 Series, HCT™:

http://www.filtrationsystems.com/brochures/eng_59_700%20Series%20Disc%20Analysis%20Average.pdf

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