



Filter Products C O M P A N Y

Case Study

FPC Creates Cryogenic Filter Bag for Pinnacle Stainless

Pinnacle Stainless needed a strainer that could withstand the cryogenic environment of their process reactors, but the limitations of stainless steel mesh made it unsuitable for their applications. Filter Products Company delivered a reusable textile filter bag that could withstand extreme cold and meet Pinnacle's needs.

Customer Issue

Pinnacle Stainless, a leading Colorado-based developer and manufacturer of stainless steel hemp and cannabis extraction equipment, contacted Filter Products Company for assistance in creating a plant-matter containment solution for their hash oil process reactors.

Zach Harris, Owner and Lead Design Engineer, knew exactly what performance he wanted from the strainer system, but recognized that traditional stainless steel mesh screens had some inherent limitations for his process. He believed that a textile bag that could close securely was an ideal solution—if there were textiles and accessories that would stand up to the cryogenic ethyl alcohol extraction process.

Filter Products Company Solution

Through several development conversations and a couple of prototype runs, Filter Products Company worked with a partner textile mill to develop a woven monofilament fabric. This fabric

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possessed optimal filtration efficiency, tolerated the extreme cold of the alcohol solution, and could be washed and re-used several times.

In addition, Filter Products Company worked with the recognized leader in zipper closure systems to specify a zipper that could endure the extreme extraction environment and provide positive closure to the strainer bag.

Customer Result

Today, Pinnacle Stainless has dozens of extraction systems installed and running at its customers' facilities across the US and Canada, and each of those systems utilizes the custom strainer bag developed by Filter Products Company specifically for the hash oil extraction process.

Filter Products Company has also partnered with several Pinnacle Stainless customers to provide after-extraction filtration solutions, including:

- sanitary stainless bag filtration housings and trade-size filter bags for secondary solids removal
- lenticular filtration housings for clarification, polish, and sub-micron filtration
- filter cartridge housing of all shapes and sizes, and cartridges to match
- filter presses
- cellulose-based depth filter media with perlite and diatomaceous earth for secondary filtration stages
- activated carbon for tertiary filtration stages

Filter Products Company is an early participant in hemp and cannabis process optimization and has the expertise and understanding to navigate the intricacies of this industry. We will help address your complex filtration needs and enable you to deliver premium products with minimal waste.

Service Used

Contact us to learn more about FPC's custom strainer bag manufacturing:



[Custom Manufactured
Bag Filters](#)