



ERTELALSOP

THE FIRST NAME IN LIQUID FILTRATION™

BACKWASHABLE ZETA-PAK® LENTICULAR FILTERS

Since ErtelAlsop developed the lenticular depth filter cartridge design in 1942, the design has continued to evolve with new industry requirements. ErtelAlsop is proud to introduce our latest lenticular design, the Backwashable Zeta-Pak®.

As the beverage industry becomes more competitive, manufacturers need to filter more of their valuable liquid, such as beer or wine, through their filters more quickly without changing the media. To save time, instead of changing spent media, you can simply back-flush your system and continue your process, or process a different liquid, using our new Backwashable Zeta Pak®.

ErtelAlsop's Backwashable Zeta-Pak® lenticular module cartridge filter features a protective polypropylene honeycomb scrim covering on each cell layer of the module/cartridge. These protective covers provide strength and support for the media against back pressure, and allow for backwashing of the filter, several times over. This design has become critical for our customers, as they realize they can get several extra filtration cycles with the same media when using our Backwashable Zeta-Paks®. Customers are also able to filter up to 30% more liquid using our Backwashable Paks® vs. other brands of backflushing modules.

CARTRIDGE STYLE

ErtelAlsop manufactures a wide range of lenticular cartridge configurations. The Backwashable Zeta-Pak®, modules/cartridges are available in two diameters, 12 inches and 16 inches, with a varied number of cells. Surface areas range from 3 ft² to 36 ft².

The Backwashable Zeta-Pak® lenticular filter module has an all polypropylene structure for improved cartridge integrity.



APPLICATION FOOD AND BEVERAGE

For particulate and haze removal from syrups, flavorings, wine, beer, and spirits. Where appropriate, activated carbon filters can be used to remove color.

MATERIALS OF CONSTRUCTION

Materials of construction are kept to a minimum to enhance chemical compatibility and product safety. The filters contain media (cellulose, DE or Perlite, and wet strength resin), polypropylene support components, and polypropylene netted scrim protective covers for strength and support during the backwash procedure. Gasket materials are selected for the application and are described in the Selection Guide below.

FILTRATION EQUIPMENT

ErtelAlsop also manufactures in house a complete line of filter housings for lenticular cartridges, including vertical and horizontal Pak® design housings to fit your application. Available materials include carbon steel, 304, 316, or 316L stainless steel, Hastelloy®, and polypropylene or fiberglass reinforced polypropylene. At ErtelAlsop we offer customized designs for your specific application processing requirements.



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FILTER MEDIA

Micro-Media® – High-performance filter media contains cellulose, filter aid, and a wet strength resin. Two types of filter aid are available in this series. **Micro-Media® DE (Diatomaceous Earth) series** is derived from marine diatoms, and has a typical particle size ranging from 10 to 200 μm . **Micro-Media® Perlite series** is derived from volcanic ash and has a consistent shape that results in a denser filter media.

Table below is for reference only.

FILTER MEDIA	MICRO-MEDIA®	
RETENTION	PERLITE SERIES	DE SERIES
15 μM	M-05	
10 μM	M-10	M-104
5.0 μM	M-40	M-404
2.5 μM	M-45	M-454
1.0 μM	M-50	M-504
0.8 μM	M-50T	M-504T
0.45 μM	M-70	M-704
0.3 μM		M-854
0.25 μM		M-954

PRODUCT TESTING

The most accurate way to optimize your process is through laboratory scale testing. Samples of Micro-Media®, Micro-Media® XL Series™, or Micro-Clear™ Media are available at no charge for testing at your facility. Authorized ErtelAlsop representatives are equipped to run trials on-site, or product samples may be sent directly to ErtelAlsop for testing with prior approval.



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ORDERING INFORMATION

SAMPLE PART NUMBER
16PFY5M50416W

1. CARTRIDGE
DIAMETER

1
16

2. CORE

2
PF

3. CARTRIDGE
HEIGHT

3
Y

4. GASKET
MATERIAL

4
5

5. MEDIA

5
M504

6. NUMBER OF
CELLS

6
16

XX
W

DIAMETER	CORE/END CAP	HEIGHT	GASKET	GRADE	# OF CELLS	FEATURES
12=12 inch	PO=Polypropylene Core Double O-Ring End Cap Double O-Ring	X=7-9/16" Flat Gasket 8-9/16" Double O-Ring	2=Neoprene	M-50 (Example)	3-18	ZD = ZetaDri-Pak
16=16 inch			3=Viton			KV = AquaKv-Pak
	PF=Polypropylene Core Flat Gasket End Cap	Y=10-7/8" Flat Gasket 11-7/8" Double O-Ring	4=EPDM			W = Backwash Pak
			5=Buna-N			
			6=Silicone			
			7=Teflon Encapsulated Silicone			
			8=Other			

THE FORMAT TO FIT YOUR NEEDS

All ErtelAlsop media formulations can be manufactured in formats to fit your application. Filter sheets, discs and Pak® Lenticular Cartridges are all available to provide you with product to optimize your application. ErtelAlsop also manufactures a complete line of filter machinery, from Small Batch and Pilot Scale Lab Filters to Plate and Frame Filters, Sealed Disc Filters and Pak® Lenticular Cartridge Housings.

For over 85 years, ErtelAlsop has been proactively solving the depth filtration problems of industry. We originated and patented the Pak® Lenticular Cartridge concept. We created the BioClean™ Sanitary Filter Plate Assembly to accommodate the stringent cleaning standards of the pharmaceutical industry. We designed the 1S PharmaScale™ Filter at the request of a customer who needed to duplicate results at the one-inch square level. We designed the Vapormaster Plate and Frame Filter Press to contain highly flammable vapors in a factory environment. Most recently, we took the traditional plate and frame concept and literally turned it on its ear. The Diamond Series™ line of Plate and Frame Filter Presses combines weld-free technology for the ultimate in cleanliness with a diamond shape, which allows for complete drainage and venting. Constant innovation has positioned us at the forefront of the industry.

For more detailed information on the products we manufacture, contact us by phone at 800.553.7835 or visit our web site www.ertelalsop.com.

FILTER MEDIA

ErtelAlsop filter media is available for any application and/or operating condition, and is chosen based on your specific operating conditions, the performance required by the filtering media, and criteria given to us by you and/or by sample processing conducted in our lab.

ErtelAlsop offers the widest varieties of filter media including 100% cellulose pads, cellulose and diatomaceous earth (DE) pads, cellulose and Celpure® DE pads, cellulose and perlite pads, and cellulose and activated carbon pads. We also manufacture lenticular filter cartridges, filter paper, filter capsules and filter cloth, all available in various media grades.

All filter media are manufactured to the highest standards for a wide range of applications in the pharmaceutical, chemical, cosmetic, electric utility, cannabis, and food and beverage markets. ErtelAlsop also offers a Validation Guide to assist in the validation of its filter pads in your process. The Validation Guide contains information regarding raw materials, extractables, and general information about the product. The combination of ErtelAlsop "P" grade filter pads and ErtelAlsop's BioClean™ plate and frame filter press design, can help to simplify your depth filtration validation now more than ever.



For additional
product information visit
ErtelAlsop.com

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