



ERTELALSOP

THE FIRST NAME IN LIQUID FILTRATION™

ERTELALSOP'S DIAMOND SERIES™ (patent pending) filter press combines the latest weld-free construction technology with the most revolutionary plate and frame design concept in recent history. The Diamond Series provides complete drainage and venting while maintaining our superior internally ported design.

These 12-inch square plate and frame filters are one of the most economical models ErtelAlsop manufactures. Cart-mounted and able to accept up to fifty (50) filter pads, they are designed to work in a wide range of high efficiency, ultra-fine filtration applications. As with all ErtelAlsop plate and frame filter presses, the Model 12D has the same component flexibility as other models and is internally ported, eliminating the need for gaskets and abolishing concerns about compatibility and cross-contamination.

STANDARD FEATURES

- 316L SS
- BioClean™ Outlet Plates
- Internal Ports
- 1-inch Tri-Clamp Fittings
- Handwheel Closure with Ratchet Wrench Assistance
- Cart-Mounted
- Diamond Configuration™

OPTIONAL FEATURES

- Fifty (50) pad capacity expansion
- Variable Frame Thickness
- Polypropylene Plates and Frames (P)
- Dividing Heads
- Weld-Free Plate Design
- Thorough Wash Capability
- Hydraulic Closure
- Pressure Gauges
- Starting Switch
- Manifolds
- Pump
- Motor



APPLICATIONS:

- Small Batch Cosmetics
- Cough Syrups
- Flavors
- Fragrances
- Small Volume Parenterals

THE DIAMOND SERIES LINE

is designed for use in critical applications where hold-up volumes can be costly. Historically, plate and frame technology has required that upon completion of the production cycle, up to 90% of the liquid remaining in the filter needs to be reprocessed or discarded. The Diamond Series eliminates this obstacle entirely. Maximum yield of viable liquid is now possible.

FILTER MEDIA

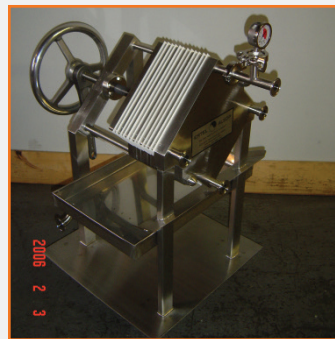
As with all ErtelAlsop plate and frame filter press models, media is available for any application and/or operating condition, and is chosen based on your specific operating conditions, the performance required by the filtering media, and criteria given to us by you and/or by sample processing we do in our lab.

ErtelAlsop offers the widest varieties of filter media including 100% cellulose pads, cellulose and diatomaceous earth pads, cellulose and Celpure® diatomaceous earth pads, cellulose and perlite pads, and cellulose and activated carbon pads.

All filter pads are manufactured to very high standards for a wide range of applications in the pharmaceutical, chemical, cosmetic, electric utility 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.

12D EFS SPECIFICATIONS

Standard Height	39.39 in	(1 m)
Standard Width	17.72 in	(0.45 m)
Range of Length	29.5 - 78.7 in	(0.75 - 2.0 m)
Plate Dimension	12 in square	(305 mm)
Ports	4 internal	
Area/Filter Sheet	0.82 ft ²	(0.076 m ²)
Cake Vol. - 12.5 mm inlet	0.20 gal	(0.74 l)
Cake Vol. - 25 mm inlet	0.38 gal	(1.45 l)
Cake Vol. - 37.5 mm inlet	0.57 gal	(2.17 l)
Cake Vol. - 50 mm inlet	0.76 gal	(2.89 l)
Batch Size	Up to 2,642 gal	(10,000 l)
Flow Rate	Up to 20 gpm	(74 lpm)



For additional product
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Technical Bulletin XXX

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