ErtelAlsop

THE FIRST NAME IN LIQUID FILTRATI

WINNER OF PROCESSING MAGAZINES'S BREAKTHROUGH PRODUCTS AWARD!!

PLATE AND FRAME

Model 4D

The Model 4D is the smallest complete Plate and Frame Filter Press available today. It is the perfect tool for R&D, pilot, or small batch processing. The Diamond Series line offers one of the most revolutionary design innovations in the history of plate and frame filtration. By literally turning plate and frame filtration on its ear, ErtelAlsop has created a filter that provides complete drainage and venting while maintaining the superior internally ported design the company is famous for.

These filters are able to accept up to twenty (20) filter pads, and have excellent scale-up capabilities. The 4D has the same component flexibility as other models, accepts various thickness filter media, and is internally ported eliminating the need for gaskets as well as concerns about compatibility and cross-contamination.

Standard Features

- 316L SS
- BioClean™ Outlet Plates
- Internal Ports
- 1/2-inch Tri-Clamp Fittings
- Bench Top Mounted
- Hand Hydraulic Closure

Optional Features

- Electro polished 20 Ra Finish
- Variable Inlet Frame Thickness
- Polypropylene Plates and Frames
- Thorough Wash Capability
- Weld-Free Plate Design
- Pressure Gauges
- Tubing
- Pump
- Motor

Applications:

- R & D
- Pilot Plants
- Small Batch Biotech

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.

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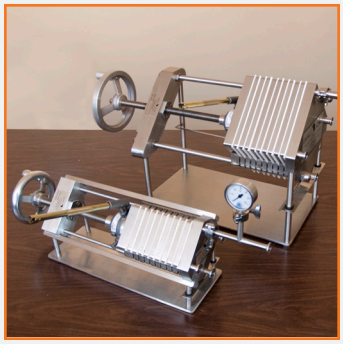
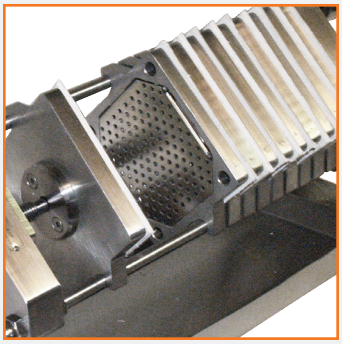
4D Specifications		
Standard Height	9.8 in	(0.25 m)
Standard Width	7.9 in	(0.20 m)
Range of Length	9.8 - 19.7 in	(0.25 - 0.5 m)
Plate Dimension	4 in square	(103 mm)
Ports	4 internal	
Area/Filter Sheet	0.084 ft^2	(0.0078 m^2)
Cake Vol. - 12.5 mm inlet	0.017 gal	(0.067 l)
Cake Vol. - 25 mm inlet	0.048 gal	(0.182 l)
Cake Vol. - 37.5 mm inlet	0.072 gal	(0.273 l)
Cake Vol. - 50 mm inlet	0.096 gal	(0.364 l)
Batch Size	0.34 oz - 2.6 gal	(10 ml - 10 l)
Flow Rate	Up to 1 gpm	(3.7 lpm)





For additional product information visit **ErtelAlsop.com**

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