



# ERTELALSOP

THE FIRST NAME IN LIQUID FILTRATION

## 1S LAB FILTER

The Model 1S lab filter is for use in laboratories to perform filtration trials and scalability studies. These units are constructed of 316 stainless steel with an optional heating/cooling jacket for filtration up to 30 PSIG. The 1S is an all stainless steel unit and accommodates the smallest filter media available for a laboratory size filter. The 1S is a single stage small volume process development filter that allows easy pad change over in the minimum of time. The 1S simulates a vertical plate and frame filter press for direct scale-up to production.

Small constant flow pumps, compressed air or inert gas can be used to flow liquid through the filter media. The O-Ring seal design provides the versatility to use a variety of filter media of different composition and thickness.

### STANDARD FEATURES

- 316L SS
- Sanitary Clamp fittings
- Filter Drain
- Filter Vent
- O-Ring Gasket
- Stainless Steel Stand

### OPTIONAL FEATURES

- Heating or Cooling Jacket



### APPLICATIONS

- Research & Development
- Quality Assurance

### PRODUCT TESTING

Product testing is always available either at your facility, through our network of distributors, or at our in-house laboratory.

### PILOT TESTING - RENTALS

For in-plant testing and scale-up procedures, ErtelAlsop offers a variety of lab filters for rent. A portion of rental fees can be applied to the purchase of your full production filter.

ErtelAlsop offers a full line of Cylinder Type Laboratory Filters with capacities up to 8000 ml.

## FILTER MEDIA

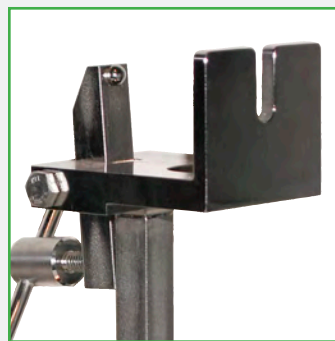
As with all ErtelAlsop plate and frame filter press models, media is available for any application and/or operating condition, and is chosen based on your specific operating conditions, the performance required by the filtering media, and criteria given to us by you and/or by sample processing we do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

## 1S SPECIFICATIONS

Material	316	
Gasket Material	EPDM	
Pressure Limit	50 PSI	
Jacket Pressure	30 PSI	
Media Type	Any Flat	
Media Dimensions	1 in <sup>2</sup>	(25.4 mm <sup>2</sup> )
Filter Area	1 in <sup>2</sup>	(6.45 cm <sup>2</sup> )
Volume	1 in <sup>3</sup>	(16.4 ml)
Gauge	None	



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

Technical Bulletin 1S-LF-11

**ErtelAlsop**  
PO Box 3358  
Kingston, NY 12402 US

ErtelAlsop.com  
800.553.7835 Telephone  
845.339.1063 Fax

Keep in touch.  
Join our Newsletter to learn  
about the latest filter best  
practices and more!

Visit us at [ErtelAlsop.com](http://ErtelAlsop.com)

Your Local Distributor

