



# ERTELALSOP

THE FIRST NAME IN LIQUID FILTRATION™

## 12 INCH DOUBLE O-RING SANITARY LENTICULAR CARTRIDGE HOUSING

Model 12PYDO, or Pharma-Pak® Sanitary Housing, helps ensure the integrity of your pharmaceutical or biotech application by providing a highly polished housing with sanitary fittings, vent connection, and no internal threads. The model is provided in 316L SS as standard and allows for easy cleaning after complete disassembly.

The typical housing can hold up to four 12-inch diameter double O-ring cartridges in a vertical configuration.

Additional integrity assurance is provided through the use of ErtelAlsop Bio-Pak® double O-ring cartridges.

### STANDARD FEATURES

- T-316L stainless steel with 180 grit finish
- 1.5" Sanitary tri-clamp Inlet & Outlet with 90 deg elbows
- 0-60 psi stainless steel non-sanitary gauge
- V-Band Clamp Closure
- 60 PSIG
- EPDM Elastomers/Gaskets
- Non-Adjustable Legs with foot pads
- Top Vent

### OPTIONAL FEATURES

- Material of Construction
- ASME Code
- Flange Fittings
- Gasket Material - Buna-N, Neoprene, Viton, Silicon, Teflon Encapsulated
- Electropolish or <30 Ra polish for liquid contact parts
- Bottom Drains
- Pumps, Tubing and Portable Carts



### APPLICATIONS

- Research & Development
- Quality Assurance
- Production Level Processing

### ADVANTAGES

- Positive sealing between cartridges and housing
- Rigid structure eliminates possibility of by-pass
- No Center Post
- Less Labor
- Fewer material components reduce compatibility issues
- Static structure eliminates moving seal required by flat gasket cartridges

### PRODUCT TESTING

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

## 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.

| SPECIFICATIONS           | 12PY1   | 12PY2   | 12PY3   | 12PY4   |
|--------------------------|---|---|---|---|
| Material of Construction | 316 Stainless Steel                             | 316 Stainless Steel                             | 316 Stainless Steel                             | 316 Stainless Steel                             |
| Gasket Material          | EPDM  | EPDM  | EPDM  | EPDM  |
| Standard Height          | 38.6 in (981 mm)                                | 49.5 in (1257 mm)                               | 60.7 in (1542 mm)                               | 71.6 in (1819 mm)                               |
| Standard Width - Base    | 19.1 in (485 mm)                                | 19.1 in (485 mm)                                | 19.1 in (485 mm)                                | 19.1 in (485 mm)                                |
| Standard Width - Dome    | 12.75 in (324 mm)                               | 12.75 in (324 mm)                               | 12.75 in (324 mm)                               | 12.75 in (324 mm)                               |
| Weight - Empty           | 75 lbs (34.1 kg)                                | 93 lbs (42.0 kg)                                | 114 lbs (51.8 kg)                               | 132 lbs (59.7 kg)                               |
| Volume - Empty           | 1809 in <sup>3</sup> (29.7 l)                   | 3185 in <sup>3</sup> (29.7 l)                   | 4569 in <sup>3</sup> (74.9 l)                   | 5946 in <sup>3</sup> (97.5 l)                   |
| Volume w/Pak Cartridge   | 1222 in <sup>3</sup> (20 l)                     | 2025 in <sup>3</sup> (33.2 l)                   | 2837 in <sup>3</sup> (46.5 l)                   | 3641 in <sup>3</sup> (59.7 l)                   |
| Media Diameter           | 12 inch (305 mm)                                | 12 inch (305 mm)                                | 12 inch (305 mm)                                | 12 inch (305 mm)                                |
| Number of Cells per Pak  | 16  | 16  | 16  | 16  |
| Filter Area              | 18.5 ft <sup>2</sup> (1.72 m <sup>2</sup> )     | 37 ft <sup>2</sup> (3.44 m <sup>2</sup> )       | 55.5 ft <sup>2</sup> (5.16 m <sup>2</sup> )     | 64 ft <sup>2</sup> (5.95 m <sup>2</sup> )       |
| Average Flow Rate        | 1 gpm/ft <sup>2</sup> (3.79 l/ m <sup>2</sup> ) | 1 gpm/ft <sup>2</sup> (3.79 l/ m <sup>2</sup> ) | 1 gpm/ft <sup>2</sup> (3.79 l/ m <sup>2</sup> ) | 1 gpm/ft <sup>2</sup> (3.79 l/ m <sup>2</sup> ) |

\* Based on 16 cell Pak Cartridges. Cartridges can be constructed with 5-16 cells per Pak Cartridge depending on filtration area needed.



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

Technical Bulletin  
12PYDO-PAK-13

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