



# ERTELALSOP

THE FIRST NAME IN LIQUID FILTRATION

## VAPOR-MASTER®

The ErtelAlsop Vapor-Master® enclosed plate and frame filter press permits filtration of harmful and/or volatile fluids in a completely sealed, vapor-tight environment for both venting and the safe disposal or recovery of filtrate or cake residue. This patented design eliminates exposure of workers to toxic vapors from solvents used in cake washing during the extraction process.

The Vapor-Master® hood can be closed manually or with an optional joystick system. In either case, dual stainless steel and Teflon® pistons provide smooth operation and maintain accurate hood alignment. The self-aligning stainless steel cover has a precision machined sealing rim and tight fitting sealing gasket. The entire sealing perimeter is covered by an ErtelAlsop designed Viton® seal. Other gasketing material can be supplied.

For applications requiring cake recovery from the Vapor-Master®, we offer the addition of a Mobile Cake Recovery Module. This portable cake pan seals in place to the bottom of the Vapor-Master® enclosure with a locking cam system during the filtration run. At the end of the cycle, when the filter cake is removed, the module can be released from the bottom of the unit and moved away for further processing.

### APPLICATIONS:

- Small Batch Cosmetics
- Cough Syrups
- Flavors
- Fragrances
- Small Volume Parenterals
- Petroleum Additives
- Fermentation Extracts



### STANDARD FEATURES

- 316L SS
- BioClean™ Outlet Plates
- Internal Ports
- Tri-Clamp Fittings
- Handwheel Closure
- Cart-Mounted

### OPTIONAL FEATURES

- Fifty (50) pad capacity expansion
- Variable Frame Thickness
- Dividing Heads
- Weld-Free Plate Design
- Thorough Wash Capability
- Diamond Configuration
- Hydraulic Closure
- Pressure Gauge
- Tubing
- Pump
- Motor

## 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	VM-300		VM-400		VM-604	
Standard Height	39.37 in	(1.0 m)	45.75 in	(1.16 m)	59.18 in	(1.50 m)
Standard Width	17.72 in	(0.45 m)	30.0 in	(0.76 m)	30.0 in	(0.76 m)
Range of Length	29.5 - 78.6 in	(0.75 - 2.0 m)	39.4 - 157.5 in	(1.0 - 4.0 m)	51.2 - 240.2 in	(1.3 - 6.1 m)
Plate Dimension	12 in square	(305 mm)	16 in square	(406 mm)	24 in square	(609 mm)
Ports	4 internal		4 internal		4 internal	
Area/Filter Sheet	0.82 ft <sup>2</sup>	(0.076 m <sup>2</sup> )	1.42 ft <sup>2</sup>	(0.132 m <sup>2</sup> )	3.6 ft <sup>2</sup>	(0.33 m <sup>2</sup> )
Cake Vol. - 12.5 mm inlet	0.20 gal	(0.74 l)	0.40 gal	(1.52 l)	0.99 gal	(3.76 l)
Cake Vol. - 25 mm inlet	0.38 gal	(1.45 l)	0.90 gal	(3.39 l)	1.99 gal	(7.53 l)
Cake Vol. - 37.5 mm inlet	0.57 gal	(2.17 l)	1.38 gal	(5.21 l)	2.98 gal	(11.29 l)
Cake Vol. - 50 mm inlet	0.76 gal	(2.89 l)	1.92 gal	(7.27 l)	3.98 gal	(15.06 l)
Batch Size	Up to 2,641 gal	(10,000 l)	Up to 6,604 gal	(25,000 l)	Up to 13,208 gal	(50,000 l)
Flow Rate	Up to 20 gpm	(74 lpm)	Up to 50 gpm	(190 lpm)	Up to 50 gpm	(190 lpm)



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

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