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SUPRApak™ Plus PW Series Modules

For High Throughput Depth Filtration in Enclosed Systems

SUPRApak Plus PW depth filter module design is using the new layer to layer seal technology.

Description

Developed from traditional depth filtration technology, SUPRApak modules efficiently combine the filtration mechanisms of surface filtration, depth filtration and adsorption. Highly unique to their design is an entirely new flow configuration, based on the "edgeflow" principle.

Seitz® filter sheet material is wrapped around a central, permeable core. Feed and filtrate channels provide a fluid flow path resulting in maximum utilization of the sheet material, to provide highly efficient contaminant removal and a cost-effective enclosed system alternative to flat sheet filtration. New to the SUPRApak PW Series is an improved layer to layer sealing which offers the following features and benefits:



SUPRApak PW Series Modules

Features

Flow configuration based

on "edge flow" principle

Sealing line technology

Enclosed filtration system

Drainable, low hold-up volume assembly

High filtration capacity in compact design

Simple, quick installation and servicing

Benefits

- · Up to 6 times higher throughput compared to classical sheet filtration, resulting in longer process uptimes1
- · Increased adsorption capability and excellent filtrate quality
- · Higher mechanical stability
- · Modules can be steam sanitized
- · Higher dp stability and therefore higher total throughput
- · Increased process safety and product quality
- No drip losses
- · Minimal operator exposure to process fluids
- · Higher product yield; lower cleaning costs
- · Small footprint
- · Reduced labor and maintenance costs

Quality

Manufactured according to ISO 9001 certified Quality Management System

Food Contact Compliance

Please refer to the Pall website www.pall.com/foodandbev for a Declaration of Compliance to specific National Legislation and/or Regional Regulatory requirements for food contact use.

Main Components²

| Component | Description | |
|---|--|--|
| Sheet material: PW 5200, PW 5300, PW 5500, PW 5700, PW 5800, PW 5900, PW 7000, PW 7100, PW 7300, PW 7700 | Cellulose, Diatomaceous Earth (DE, Kieselguhr) Perlites | |
| Center core | Polypropylene (20% talc-filled) | |
| Sealing line | Polypropylene | |

² For more information on materials of construction, please see the Declaration of Compliance at www.pall.com/foodandbev.

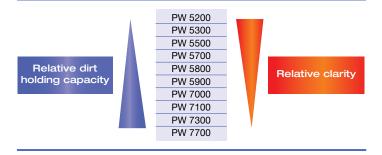
¹ Depending on application and product selection

Applications

Typical applications are found in many fluids in the food and beverage industry.

| Final filtration | Enzyme solutions, sweeteners |
|-----------------------|--|
| Polishing filtration | Sweeteners, beer, wine, flavors, thin liquor gelatin, yeast extract, vinegar |
| Clarifying filtration | Beer, wine, enzymes, flavors, thin liquor gelatin, polyols, edible oils |
| Coarse filtration | General particle removal |

PW Range of Filtration Grades



Many applications in the food and beverage industry are ideally suited to the use of SUPRApak technology, resulting in significant commercial and technical advantages.



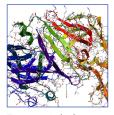




Flavors

Sweeteners

Gelatin







Enzyme Solutions

Beer

Wine

Technical Information

Operating Characteristics in Compatible Fluids³

| Module Size Grade | |
|-------------------|---------------------------------------|
| PW 5200-PW 7700 | 80 °C (167 °F) / 8 hours ⁴ |
| | |

- ³ Compatible fluids are those which do not adversely affect the filter materials of construction.
- ⁴ Laboratory tests up to 8 hours exposure. Actual field experience shows substantially longer resistance to high temperatures. For continuous hot fluid applications over 40° C (104° F), a stainless steel support core is required. Please see SUPRApak housing data sheet for information.

Operating Guidelines

Field experience shows that maximum achievable differential pressures vary with the applications and product selection. They are determined by monitoring filtrate quality, and are influenced by several factors. Please contact Pall for details, and refer to SUPRApak module instructions for use.

Sanitization⁶

| Method | Temperature | Time/Cycles ⁶ | |
|-----------|-----------------|--------------------------|--|
| Hot Water | 85 °C (185 °F) | 20 cycles @ 20 min each | |
| Steam | 125 °C (258 °F) | 10 cycles @ 20 min each | |

⁶ The actual time required may vary as a function of the process conditions. Laboratory tests were carried out up to 10 cycles. Actual field experience shows more cycles are achievable, coupled with proper filtrate quality monitoring.

Rinsing⁷

| Module Size Rising Volume/Module | | Recommended Flow Rate | |
|----------------------------------|------------------------|--------------------------------|--|
| SUPRApak S | 20 liters (5.3 US gal) | 1.5 times filtration flow rate | |
| SUPRApak M | 140 liters (37 US gal) | 1.5 times filtration flow rate | |
| SUPRApak L | 340 liters (90 US gal) | 1.5 times filtration flow rate | |

⁷ Depending on the application, rinsing with cold or warm water in a forward flow direction is recommended prior to filtration.

Nominal Weight and Typical Ash Content

| Module | Dry Weight | Wet Weight | Ash Content⁵ |
|---------------------------------|-------------------------------|---------------------------------|--------------|
| SUPRApak S (PW 5200-PW 7300) | 1.6-1.8 kg (3.5-4 lbs) | 3.5-4.5 kg (7.7-9.9 lbs) | 35-49% |
| SUPRApak S (PW 7700) | 1.2 kg (2.6 lbs) | 3.1-3.8 kg (6.8-8.4 lbs) | < 2% |
| SUPRApak M (PW 5200-PW 7300) | 5.1-5.6 kg (11.2-12.3 lbs) | 15.5-16.5 kg (34.1-36.3 lbs) | 40-54% |
| SUPRApak M (PW 7700) | 3.8 kg (8.4 lbs) | 13-15 kg (28.6-33 lbs) | < 2% |
| SUPRApak L (PW 5200-PW 7300) | 11-12 kg (24.2-26.4 lbs) | 25-30 kg (55-66 lbs) | 40-54% |
| SUPRApak L (PW 7700) | 7.5 kg (16.5 lbs) | 25-30 kg (55-66 lbs) | < 2% |

⁵ These figures are determined on typical finished articles. Values differ for individual PW grades. Ash values for the filter sheets in individual batches are available on request.

Ordering Information

This information is a guide to the part number structure and possible options. For availability of specific options and housing details, please contact Pall.

Part number nomenclature:

SUPRApak PW

Table 1 Table 2

Example part number: SUPRApak PW 5200 W

See bold reference code in tables.

Table 1: Grade

Table 2: Nominal Dimensions

| Code | |
|------|--|
| 5200 | |
| 5300 | |
| 5500 | |
| 5700 | |
| 5800 | |
| 5900 | |
| 7000 | |
| 7100 | |
| 7300 | |
| 7700 | |

| Code | Height | External Diameter |
|------|---------------|-------------------|
| S | 250 mm (9.8") | 183 mm (7.5") |
| М | 250 mm (9.8") | 285 mm (11.2") |
| L | 250 mm (9.8") | 415 mm (16.3") |

Available Sizes

| Code | Range | L | М | S | |
|------|----------|---|---|---|--|
| 5200 | PW Range | × | Х | Х | |
| 5300 | | X | X | X | |
| 5500 | | X | X | X | |
| 5700 | | X | X | X | |
| 5800 | | | X | X | |
| 5900 | | X | X | X | |
| 7000 | _ | | X | X | |
| 7100 | _ | X | X | X | |
| 7300 | _ | | X | Χ | |
| 7700 | | X | X | X | |



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Visit us on the Web at www.pall.com/foodandbev

Pall Corporation has offices and plants throughout the world. To locate the Pall office or distributor nearest you, visit www.pall.com/contact.

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

IF APPLICABLE Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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