

## SUPRApak™ SH Series Module–L (16")

### For Ion Reduced Depth Filtration in Enclosed Systems

SUPRApak SH Series depth filter modules set a new standard for enclosed sheet filtration, providing exceptional throughput and quality in distilled spirits applications.

#### 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 “edge flow” principle.

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 closed system alternative to flat sheet filtration.

SH series SUPRApak modules are constructed from Seitz® IR Series filter sheets which undergo a proprietary treatment that results in extremely low levels of extractable ions. This makes them ideal for spirits applications since ions like calcium and magnesium can result in precipitation and haze formation.

#### Features

Flow configuration based on “edge flow” principle

Closed filtration system

Drainable, low hold-up volume assembly

Constructed from ion reduced filter sheets (calcium, iron, magnesium and aluminium)

High filtration capacity in compact design

Simple, quick installation and servicing

#### Benefits

- Higher throughput compared to classical sheet filtration<sup>1</sup>
- Increased adsorption capability and excellent filtrate quality

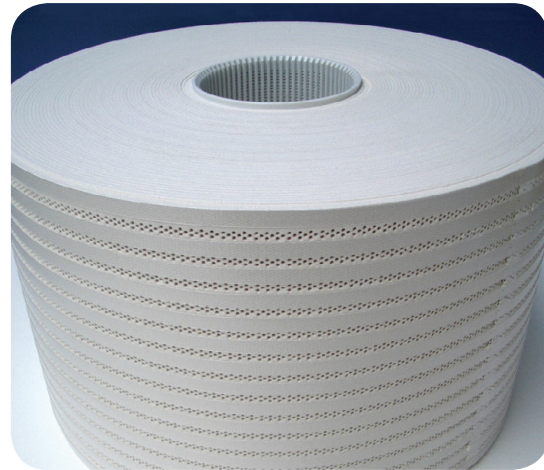
- Increased process safety and product quality; no drip losses; reduction in volatile organic compounds

- Higher product yield; lower cleaning costs

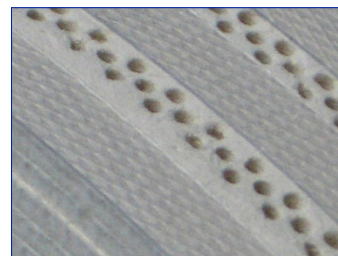
- Reduced risk of precipitation in distilled spirits

- Small footprint

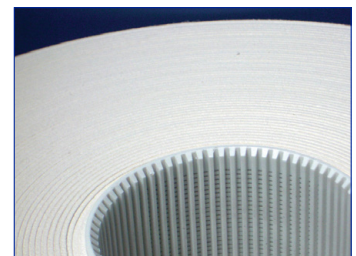
- Reduced labor and maintenance costs



SUPRApak SH Series Module



Perforated channels allow maximum usage of filter area



Densely packed sheet material is wrapped around a permeable core

#### Quality

- Filter sheets produced in a controlled environment
- Manufactured according to ISO 9001:2015 certified Quality Management System

#### Applications

Grade	Typical Application
SH 5700	• Chill/polishing filtration of spirits
SH 5900	• Chill filtration of brown spirits or white spirits high in fatty acids
SH 7200	• Particle removal

#### SW Range of Filtration Grades



<sup>1</sup> Depending on application and product selection

## Main Components<sup>2</sup>

Component	Description
Sheet material: SH 5700, SH 5900, SH 7200	Cellulose, diatomaceous earth (DE, Kieselguhr), Perlites
Center core	Polypropylene (20% talc-filled)
Straps	Polyester

<sup>2</sup> For more information on materials of construction, please see the Declaration of Compliance at [www.pall.com/foodandbev](http://www.pall.com/foodandbev).

## Food Contact Compliance

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

## Technical Information

### Nominal Weight and Typical Ash Content

Module	Dry Weight	Wet Weight	Ash Content <sup>3</sup>
SUPRApak L	11.5-12 kg (25.4-26.5 lbs)	25-30 kg (55-66 lbs)	410-47%

<sup>3</sup> These figures are determined on typical finished articles. Values differ for individual SH grades. Ash values for the filter sheets in individual batches are available on request.

### Operating Guidelines

Field experience shows that maximum achievable differential pressures vary with the application 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.

### Rinsing

The use of ion-reduced water is highly recommended for the reconstitution of distillates to final strength.

To prevent dilution upon installation, a water rinse is not typical for SUPRApak modules used in the spirits industry. Product circulation for 10 to 15 minutes back to the feed tank helps to distribute ions extracted at the beginning of filtration to the entire batch reducing the overall risk of precipitation.

## Filtration Guidelines<sup>4</sup>

Module Size	Recommended Flow Rate
SUPRApak L	2500 – 4500 L/h (11 – 20 gal/min)

<sup>4</sup> Please contact Pall for recommendations on your specific filtration process as results may vary by product, pre-filtration and filtration conditions.

## 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 SH  LW

Table 1

### Example part number: SUPRApak SH 5700 LW

See bold reference code in tables.

**Table 1: Grade**    **Nominal Dimensions**

Code	Code	Height	External Diameter
<b>SH 5700</b>	<b>L</b>	250 mm (9.8")	415 mm (16.3")
SH 5900			
SH 7200			



SUPRApak SH module and housing



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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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