

## SUPRApak™ Plus PH Series Modules L (12") and S (7.5") Size

For Ion Reduced Depth Filtration of  
Distilled Spirits in Enclosed Systems

SUPRApak Plus PH depth filter module design uses 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 PH Series is an improved layer to layer sealing which offers the following features and benefits:

Features	Benefits
Flow configuration based on "edge flow" principle	<ul style="list-style-type: none"> <li>Up to 6 times higher throughput compared to classical sheet filtration, resulting in longer process uptimes<sup>1</sup></li> <li>Increased adsorption capability and excellent filtrate quality</li> </ul>
Sealing line technology	<ul style="list-style-type: none"> <li>Higher mechanical stability</li> <li>Modules can be steam sanitized</li> <li>Higher dp stability and therefore higher total throughput</li> </ul>
Enclosed filtration system	<ul style="list-style-type: none"> <li>Increased process safety and product quality</li> <li>No drip losses</li> <li>Minimal operator exposure to process fluids</li> </ul>
Drainable, low hold-up volume assembly	<ul style="list-style-type: none"> <li>Higher product yield; lower cleaning costs</li> </ul>
High filtration capacity in compact design	<ul style="list-style-type: none"> <li>Small footprint</li> </ul>
Simple, quick installation and servicing	<ul style="list-style-type: none"> <li>Reduced labor and maintenance costs</li> </ul>

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



SUPRApak PH Series Modules

### Quality

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

### 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.

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

Component	Description
Sheet material: PH 5700, PH 5900, PH 7200	Cellulose, Diatomaceous Earth (DE, Kieselguhr), Perlites
Center core	Polypropylene (20% talc-filled)
Sealing line	Polypropylene

<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).

## Applications

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

## PH Range of Filtration Grades



## Technical Information

### Operating Characteristics in Compatible Fluids<sup>3</sup>

Module Size	Grade	Max. Operating Temperature
SUPRApak S,M	PH 5700-PH 7200	ambient

<sup>3</sup> Compatible fluids are those which do not adversely affect the filter materials of construction.

### 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.

## Nominal Weight and Typical Ash Content

Module	Dry Weight	Wet Weight	Ash Content <sup>4</sup>
SUPRApak S PH 5700 – PH 7200)	1.6 – 1.8 kg (3.5 – 4 lbs)	3.5-4.5 kg (7.7-9.9 lbs)	35 – 49%
SUPRApak M PH 5700 – PH 7200)	5.1 – 5.6 kg (11.2 – 12.3 lbs)	15.5 – 16.5 kg (34.1 – 36.3 lbs)	40 – 54%

<sup>4</sup> These figures are determined on typical finished articles. Values differ for individual PH grades. Ash values for the filter sheets in individual batches are available on request.

### Sanitization

Sanitization usually is not required in distilled spirits filtration. If the process requires sanitization with hot water or steam, please use our SUPRApak Plus PW range.

### Rinsing<sup>5</sup>

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

<sup>5</sup> Depending on the application, rinsing with cold or warm water in a forward flow direction is recommended prior to filtration.

## 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 PH   W

Table 1 Table 2

Example part number: SUPRApak PH 5700 SW

See bold reference code in tables.

Table 1: Grade Table 2: Nominal Dimensions

Code	Code	Height	External Diameter
<b>5700</b>	<b>S</b>	250 mm (9.8")	183 mm (7.5")
5900	M	250 mm (9.8")	285 mm (12")
7200			

Each SUPRApak M module is supplied with a separate polypropylene ring for use in between adjacent modules.



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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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