

FBSPAKPHMSEN

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	 Up to 6 times higher throughput compared to classical sheet filtration, resulting in longer process uptimes¹ Increased adsorption capability and excellent filtrate quality 	
Sealing line technology	Higher mechanical stability Modules can be steam sanitized Higher dp stability and therefore higher total throughput	
Enclosed filtration system	 Increased process safety and product quality No drip losses Minimal operator exposure to process fluids 	
Drainable, low hold-up volume assembly	Higher product yield; lower cleaning costs	
High filtration capacity in compact design	· Small footprint	
Simple, quick installation and servicing	Reduced labor and maintenance costs	

 $^{^{\}mbox{\tiny 1}}$ 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 for a Declaration of Compliance to specific National Legislation and/or Regional Regulatory requirements for food contact use.

Main Components²

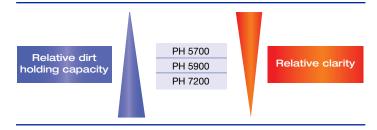
Component	Description	
Sheet material: PH 5700, PH 5900, PH 7200	Cellulose, Diatomaceous Earth (DE, Kieselguhr), Perlites	
Center core	Polypropylene (20% talc-filled)	
Sealing line	Polypropylene	

² For more information on materials of construction, please see the Declaration of Compliance at 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 Fluids³

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

³ 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 ⁴
SUPRApak S	1.6 – 1.8 kg	3.5-4.5 kg	35 – 49%
PH 5700 – PH 7200)	(3.5 – 4 lbs)	(7.7-9.9 lbs)	
SUPRApak M	5.1 – 5.6 kg	15.5 – 16.5 kg	40 – 54%
PH 5700 – PH 7200)	(11.2 – 12.3 lbs)	(34.1 – 36.3 lbs)	

⁴ 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.

Rinsing⁵

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

⁵ 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.

P	art	numb	er nomen	clature:	SUPRApa	ak PH	

Table I Table

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	
5700	s	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.

PALL PALL CORPORATION

+1-866-905-7255 **Food and Beverage toll free** foodandbeverage@pall.com

Corporate Headquarters

Port Washington, NY, USA +1-800-717-7255 toll free (USA) +1-516-484-5400 phone

European Headquarters

Fribourg, Switzerland +41 (0)26 350 53 00 phone

Asia-Pacific Headquarters

Singapore

+65 6389 6500 phone

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.

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

© Copyright 2021, Pall Corporation. Pall, (PALL), Seitz and SUPRApak are trademarks of Pall Corporation. ® Indicates a trademark registered in the USA.

FBSPAKPHMSEN OCTOBER 2021