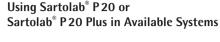
## Sartolab® P20 and Sartolab® P20 Plus

### Sterile Filtration of Sample Volumes of Up to 5 Liters

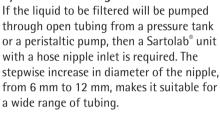




Systems with Luer Lock Connectors
Sartolab® units with a luer lock inlet fit
directly onto the corresponding connectors
of tubing from peristaltic pumps. This
configuration can also be used with luer

### Systems with Tubing

lock syringes.



#### **Application**

The Sartolab® P20 is a ready-to-use pressure filtration unit for sterile filtration of media and aqueous solutions in batches ranging from 100 mL to 5 L. For media that contain sera and difficult-to-filter solutions, a Sartolab® P20 Plus unit with an incorporated prefilter is also available.

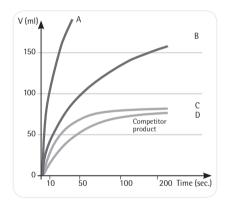
#### Security

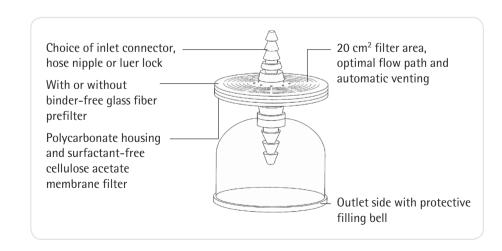
The effectiveness of every batch of 0.2 µm cellulose acetate membranes for sterile filtration is confirmed by bacteria challenge tests (HIMA) using Brevundimonas diminuta. Only biosafe

material is used in the filtration units; they have been proven non-toxic by passing the USP plastics test for toxicity. Tests with MRC-5 human lung cells on cellulose acetate membranes and glass fiber prefilters showed no cytotoxic effects. Finished units are also tested for their sterile filtration capability and for housing and membrane integrity.

#### **Fast Filtration**

The combination of a large filtration area (20 cm²) and the optimal design of the filter support guarantees high flow rates with high total throughputs. Automatic venting of any trapped air through the PTFE membrane-protected vent ports ensures that the entire filter surface is used for effective filtration.







## Specifications

### Technical Specifications for Sartolab® P20 and Sartolab® P20 Plus Units with SFCA Membrane and PTFE Venting

Properties	Description				
	Sartolab® P20 18052 18053	Sartolab® P20 Plus 18056 18058			
Filter material	SFCA, type 12587, 0.2 μm pore size and PTFE	SFCA, type 12587 0.2 µm pore size plus GF 100% free of binding agents and PTFE			
Housing material	Polycarbonate	Polycarbonate			
Color code	Transparent	Transparent			
Filter diameter	64 mm	64 mm			
Connector inlet	Female luer lock or stepped hose nipple with 6 mm to 12 mm outer diameter	Female luer lock or stepped hose nipple with 6 mm to 12 mm outer diameter			
Connector outlet	Hose nipple	Hose nipple			
Filling bell	Yes	Yes			
Filtration area	20 cm <sup>2</sup>	20 cm <sup>2</sup>			
Hold-up volume before bubble point	1 mL	Approx 1.5 mL			
Housing burst pressure	> 5 bar   72.5 psi	> 5 bar   72.5 psi			
Bubble point	≥ 3.2 bar   46.4 psi	≥ 3.2 bar   46.4 psi			
Max. recommended inlet pressure	3 bar   43.5 psi	3 bar   43.5 psi			
Flow rate for water	≥ 250 mL/min at $\Delta p = 1$ bar   14.5 psi	≥ 250 mL/min at ∆p = 1 bar   14.5 psi			
Filtration range	100 mL to max. 5 L	100 mL to max. 10 L			
pH-range	4-8	4–8			
Non-specific protein adsorption	No loss of protein detectable (filtration of γ globulin, method acc. to Bradford)	< 80 μg/cm² (filtration of γ globulin, method acc. to Bradford)			
Sterilization	EO sterilization	EO sterilization			
Biosafety	Class VI Plastics Test	Class VI Plastics Test			
Operating instructions	Directions for use included in each box	Directions for use included in each box			

### Technical Specifications for Sartolab® P20 and Sartolab® P20 Plus Units with PES Membrane

	Sartolab® P20 18075	Sartolab® P20 Plus 18068	Sartolab® P 20 Plus 18076	
Filter material	PES, type 15407 MI 0.2 μm pore size	PES, 0.45 μm pore size plus GF, 100% free of binding agents	PES, 0.45 μm pore size plus GF, 100% free of binding agents	
Housing material	Polycarbonate	Polycarbonate	Polycarbonate	
Color code	Transparent	Transparent	Transparent	
Filter diameter	61 mm	61 mm	61 mm	
Connector inlet	Female luer lock or stepped hose nipple	Female luer lock or stepped hose nipple	Stepped hose nipple with 6 mm to 12 mm outer	
Connector outlet	with 6 mm to 12 mm outer diameter Hose nipple	with 6 mm to 12 mm outer diameter Hose nipple	diameter Hose nipple	
Filling bell	No	Yes	No	
Filtration area	20 cm <sup>2</sup>	20 cm <sup>2</sup>	20 cm <sup>2</sup>	
Hold-up volume before bubble point	1 mL	Approx 1.5 mL	1 mL	
Housing burst pressure	> 5 bar   72.5 psi	> 5 bar   72.5 psi	> 5 bar   72.5 psi	

Properties	Description				
	Sartolab® P20 Plus 18068	Sartolab® P20 18075	Sartolab® P 20 Plus 18076		
Bubble point	≥ 3.2 bar   46.4 psi	≥ 3.2 bar   46.4 psi	≥ 3.2 bar   46.4 psi		
Max. recommended inlet pressure	e 3 bar   43.5 psi 3 bar   43.5 psi 3 bar   43		3 bar   43.5 psi		
Flow rate for water	400 mL/min at Δp = 1 bar   14.5 psi	400 mL/min at Δp = 1 bar   14.5 psi	> 600 mL/min at Δp = 1 bar   14.5 psi		
Filtration range	100 mL – max. 10 L	100 mL – max. 5 L	100 mL – max. 5 L		
pH range	1 to 8	1 to 8	1 to 8		
Non-specific protein adsorption	< 80 $\mu$ g/cm <sup>2</sup> (filtration of $\gamma$ globulin, method acc. to Bradford)	No loss of protein detectable (filtration of $\gamma$ globulin, method acc. to Bradford)	<ul> <li>No loss of protein detectable (filtration of y globulin, method acc. to Bradford</li> </ul>		
Sterilization	EO sterilization	EO sterilization	-		
Biosafety	Class VI Plastics Test	Class VI Plastics Test	Class VI Plastics Test		
Operating instructions	Directions for use included in each box	Directions for use included in each box	Directions for use included in each box		

## Ordering Information

Type	Membrane	Housing	Pore Size	Inlet	Outlet	Sterile	Qty./Pkg.	Order No.
Sartolab®	P20							
	SFCA	PC	0.2 μm	Hose Barb	Hose Barb	Yes	10	18052D
	SFCA	PC	0.2 μm	Luer Lock	Hose Barb	Yes	10	18053D
	PES	PC	0.2 μm	Luer Lock	Hose Barb	Yes	10	18075D <sup>1</sup>
Sartolab®	P20 Plus							
	SFCA + GF	PC	0.2 μm	Hose Barb	Hose Barb	Yes	10	18056D
	SFCA + GF	PC	0.2 μm	Luer Lock	Hose Barb	Yes	10	18058D
	PES + GF	PC	0.2 μm	Luer Lock	Hose Barb	Yes	10	18068D
	PES + GF	PC	0.45 μm	Hose Barb	Hose Barb	No	100	18076N <sup>1</sup>
	GF*	PC	n.a.	Luer Lock	Hose Barb	No	10	18072D <sup>1</sup>

 ${\sf SFCA-Cellulose\ Acetate,\ PES-Polyethersulfone,\ GF-Glass\ Fiber\ Prefilter,\ PC-Polycarbonate\ GF^*-Glass\ Fiber\ Filter\ only}$ 

<sup>&</sup>lt;sup>1</sup> without filling bell



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