

**ADVANTEC®**

# Disposable Membrane Filter Unit “DISMIC®” Bulk packaging



Advantec Toyo Kaisha, Ltd.

# Disposable Membrane Filter Unit "DISMIC®"

**DISMIC has been developed to process small volume solutions easily, involving the purification of gases and liquids. This makes our product an economical filtration alternative.**

# Features

- The DISMIC syringe units are a high quality product produced under an integrated manufacturing system with strict quality control systems.
  - Filter materials are a Mixed cellulose esters (MCE), Cellulose acetate (CA), PES, hydrophilic PTFE, and hydrophobic PTFE with 4 pore sizes range from  $0.20\mu\text{m}$  to  $0.80\mu\text{m}$  ( $0.80\mu\text{m}$ - CP/CS Type,  $0.50\mu\text{m}$ - JP Type).
  - The housing material is pigment free.
  - The DISMIC can be easily connected to a syringe with its female luer-lock inlet and the male luer-slip outlet.
  - The DISMIC syringe unit can be used with both pressure and vacuum filtration . This unit also has a very low sample loss.

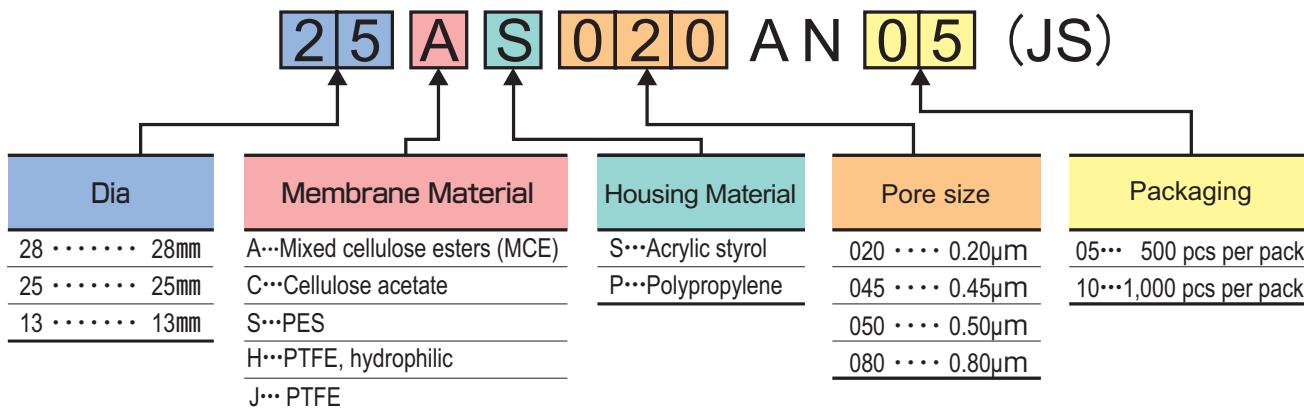
## ■ Applications

- Purification of culture media samples, biological samples requiring low protein binding
  - Sample preparation for HPLC, Ion chromatography and microanalysis
  - Microfiltration of gas and aqueous solutions.

 The DISMIC syringe unit is intended for analytical use and is not certified for medical use.

**⚠️** Do not sterilize the DISMIC syringe with steam which results in organic solvents remaining, the filter will incur damage.

## ■ Ordering Information



# Disposable Membrane Filter Unit "DISMIC®"

## Bulk packaging

### ■ 28SP/28CP/28HP Type

	28SP				28CP								28HP															
	020AN05JS	045AN05JS	020AN10JS	045AN10JS	020AN05JS	045AN05JS	080AN05JS	020AN10JS	045AN10JS	080AN10JS	020AN05JS	045AN05JS	020AN10JS	045AN10JS	020AN10JS	045AN10JS												
Catalog No.	39136223	39136243	39136224	39136244	39132223	39132243	39132283	39132224	39132244	39132284	39135223	39135243	39135224	39135244														
Pore Size (μm)	0.20	0.45	0.20	0.45	0.20	0.45	0.80	0.20	0.45	0.80	0.20	0.45	0.20	0.45	0.20	0.45												
Membrane Material	PES				Cellulose acetate								PTFE, hydrophilic															
Housing Material	Polypropylene																											
Filtration Area	5.1cm <sup>2</sup>																											
Pressure Limit	0.86MPa																											
Maximum Operating Temperature	60°C																											
Hold-up Volume	≤0.1 mL																											
Connections	Inlet: Female Luer- Lock								Outlet: Male Luer Slip																			
Applicable Liquid	Aqueous solutions												Aqueous solutions, Organic solvents															
Sterilization	Non-Sterile																											
Packaging	500		1,000		500		1,000		500		500		1,000															

### ■ 25AS/25CS Type

	25AS				25CS															
	020AN05	045AN05	020AN10	045AN10	020AN05	045AN05	080AN05	020AN10	045AN10	080AN10										
Catalog No.	A3912112105	A3912114105	A3912112110	A3912114110	A3912212105	A3912214105	A3912218105	A3912212110	A3912214110	A3912218110										
Pore Size (μm)	0.20	0.45	0.20	0.45	0.20	0.45	0.80	0.20	0.45	0.80										
Membrane Material	Mixed cellulose esters (MCE)				Cellulose acetate															
Housing Material	Acrylic styrol																			
Filtration Area	4.0cm <sup>2</sup>																			
Pressure Limit	0.51MPa																			
Maximum Operating Temperature	45°C																			
Hold-up Volume	≤0.1 mL																			
Connections	Inlet: Female Luer- Lock								Outlet: Male Luer Slip											
Applicable Liquid	Aqueous solutions																			
Sterilization	Non-Sterile																			
Packaging	500		1,000		500		1,000													

### ■ 25HP/25JP Type

	25HP				25JP											
	020AN05J	045AN05	020AN10	045AN10	020AN05	050AN05	020AN10	050AN10								
Catalog No.	A3912522105	A3912524105	A3912522110	A3912524110	A3912322105	A3912325105	A3912322110	A3912325110								
Pore Size (μm)	0.20	0.45	0.20	0.45	0.20	0.50	0.20	0.50								
Membrane Material	PTFE, hydrophilic				PTFE											
Housing Material	Polypropylene															
Filtration Area	4.0cm <sup>2</sup>															
Pressure Limit	0.39MPa						0.51MPa									
Maximum Operating Temperature	60°C															
Hold-up Volume	≤0.1 mL															
Connections	Inlet: Female Luer- Lock								Outlet: Male Luer Slip							
Applicable Liquid	Aqueous solutions, Organic solvents								Organic solvents							
Sterilization	Non-Sterile								Non-Sterile (Autoclavable at 121°C, 15min)							
Packaging	500		1,000		500		1,000									

# Disposable Membrane Filter Unit "DISMIC®"

## Bulk packaging

### ■13CP/13HP/13JP Type

	13CP				13HP				13JP											
	020AN05	045AN05	020AN10	045AN10	020AN05	045AN05	020AN10	045AN10	020AN05	050AN05	020AN10	050AN10								
Catalog No.	A3911222105	A3911224105	A3911222110	A3911224110	A391522105	A3911524105	A3911522110	A3911524110	A3911322105	A3911325105	A3911322110	A3911325110								
Pore Size (μm)	0.20	0.45	0.20	0.45	0.20	0.45	0.20	0.45	0.20	0.50	0.20	0.50								
Membrane Material	Cellulose acetate				PTFE, hydrophilic				PTFE											
Housing Material	Polypropylene																			
Filtration Area	0.9cm <sup>2</sup>																			
Pressure Limit	0.51MPa				0.39MPa				0.51MPa											
Maximum Operating Temperature	60°C																			
Hold-up Volume	≤0.03 mL																			
Connections	Inlet: Female Luer-Lock				Outlet: Male Luer Slip															
Applicable Liquid	Aqueous solutions				Aqueous solutions, Organic solvents				Organic solvents											
Sterilization	Non-Sterile																			
Packaging	500		1,000		500		1,000		500		1,000									

### ■Chemical Compatibility

Chemicals		DISMIC®	25AS	25CS	28SP	13CP 28CP	28HP 25HP 13HP	25JP 13JP
Acids	3 kmol/m <sup>3</sup> Hydrochloric acid (10%)	○	△	○	△	○	○	○
	9 kmol/m <sup>3</sup> Hydrochloric acid (30%)	×	×	○	×	○	○	○
	1 kmol/m <sup>3</sup> Sulfuric acid (5%)	○	○	○	○	○	○	○
	4 kmol/m <sup>3</sup> Sulfuric acid (20%)	×	×	○	×	○	○	○
	1 kmol/m <sup>3</sup> Nitric acid (5%)	○	○	○	△	○	○	○
	5 kmol/m <sup>3</sup> Nitric acid (20%)	×	×	○	×	△	△	△
	1 kmol/m <sup>3</sup> Phosphoric acid (10%)	○	○	○	○	○	○	○
Alkalis	2.5 kmol/m <sup>3</sup> Sodium hydroxide (10%)	×	×	○	×	○	○	○
	2 kmol/m <sup>3</sup> Potassium hydroxide (10%)	×	×	○	×	○	○	○
	15 kmol/m <sup>3</sup> Aqueous ammonia (28%)	×	○	○	△	○	○	○
Alcohols	Methyl alcohol	×	×	○	○	○	○	○
	Ethyl alcohol	×	△	○	○	○	○	○
	Isopropyl alcohol	△	○	○	△	○	○	○
	Ethylene glycol	×	×	○	○	○	○	○

Chemicals		DISMIC®	25AS	25CS	28SP	13CP 28CP	28HP 25HP 13HP	25JP 13JP
Ethers	Ethyl ether	×	×	△	△	△	△	△
Esters	Ethyl acetate	×	×	×	×	△	△	△
	Butyl acetate	×	×	×	×	△	△	△
Ketones	Acetone	×	×	×	×	○	○	○
Hydrocarbons	Benzene	×	×	×	×	△	△	△
	Xylene	×	×	×	×	△	△	△
Amines	Dimethyl formamide	×	×	×	×	△	△	△
	Acetonitrile	×	×	×	×	△	△	△
Miscellaneous	Acetonitrile (70): Water (30)	×	×	×	×	○	○	○
	1 kmol/m <sup>3</sup> Sodium Hypochlorite (6%)	×	×	○	×	○	○	○

○ - Recommended

△ - Limited resistance

✗ - Not recommended

● Recommendations are based on an exposure to the test fluid at room temperature.

● Chemical compatibility is dependent on conditions such as temperature, concentration, and filtration time. It is recommended to verify conditions before use.

● After drying, the hydrophilicity of the filter can be lost.

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