

## Disposable Syringe Filter Units – DISMIC/LABODISC

- **Minimum sample hold-up:** Unit housings are specifically designed to maximize sample recovery
- **High purity:** Non-pigmented housing and integral filter sealing assure that filtrates will not be adulterated due to pigment, dye, or adhesives leaching into the filtrate
- **Convenient:** Each unit is clearly marked with an identifying code to denote pore size, membrane material and housing polymer
- **Sterile:** Units can be purchased presterilized and individually packaged, or nonsterile in bulk pack
- All polypropylene can be autoclaved  
Acrylic can not be autoclaved



3, 13, 25, and 50 mm disposable syringe filter units.

## SPECIFICATIONS

		DISMIC				LABODISC		
		3 mm	13 mm	25 mm		30 mm	50 mm	
Housing material	-	PP	PP	PP	Acrylic	PP	PP	
Housing Diameter	mm	3	13	25	25	30	50	
Filtration Area	cm <sup>2</sup>	0.06	0.9	4.0	4.0	4.8	19.6	
Hold-up Volume	mL	≤0.01	≤0.03	≤0.1	≤0.1	≤0.1	≤3.0	
Suggested capacity per filter unit	mL	<2 mL	<10 mL	<100 mL	<100 mL	<120 mL	>100 mL	
Pressure limit	MPa	0.51	0.51*	0.51*	0.51	0.88	0.34	
	psi	74	74*	74*	74	128	49	
Maximum Operating Temperature	°C	60	60	60	45	180	60	
	°F	140	140	140	113	356	140	
Connections	-	inlet: female luer-lock outlet: male luer slip					7–13.5 mm hose barb	

\*13HP, 25HP; Pressure Limit = 0.39 MPa (57 psi)

### Mixed Cellulose Esters (MCE, Nitrocellulose)

- Properties: A hydrophilic membrane
- Higher protein binding than cellulose acetate for most proteins
- High porosity provides a high flow rate

### Nylon

- Properties: Strong, hydrophilic membrane
- Compatible with aqueous and alcoholic solutions, as well as most HPLC solvents.
- Convenient: Prewetting not required
- Pure: Minimal extractables
- High binding capacity for proteins, DNA and RNA

### Cellulose Acetate (Acetate)

- Standard: A commonly used hydrophilic membrane
- Low protein binding, suitable for aqueous protein solutions
- Nitrate-free, suitable for groundwater filtration
- Housing material: polypropylene (3, 13, 50 mm) or styreneacrylonitrile (25 mm)

### PTFE, hydrophilic

- Versatile: Good chemical resistance
- Compatible with many solvent mixtures used in HPLC, e.g. Acetonitrile/Water

### PTFE, hydrophobic

- Application: use as vent

For ordering information, see page 16.

## ORDERING INFORMATION: DISPOSABLE SYRINGE FILTER UNITS

## DISMIC

Diam.	Membrane material	Pore size (µm)	Housing material	Quantity per package	Nonsterile	Sterile
3	Nylon	0.22	Polypropylene	200	03NP022AN	-
		0.45	Polypropylene	200	03NP045AN	-
		5.00	Polypropylene	100	03NP500AN	-
	Cellulose Acetate	0.20	Polypropylene	100	03CP020AN	03CP020AS
		0.45	Polypropylene	100	03CP045AN	03CP045AS
	PTFE, Hydrophobic	0.50	Polypropylene	100	03JP050AN	-

3mm



13	Nylon	0.22	Polypropylene	100	13NP022AN	-
		0.45	Polypropylene	100	13NP045AN	-
	Cellulose Acetate	0.20	Polypropylene	100	13CP020AN	13CP020AS
		0.45	Polypropylene	100	13CP045AN	13CP045AS
	PTFE, Hydrophilic	0.20	Polypropylene	100	13HP020AN	-
		0.50	Polypropylene	100	13HP050AN	-
	PTFE, Hydrophobic	0.20	Polypropylene	100	13JP020AN	-
		0.50	Polypropylene	100	13JP050AN	-

13mm



25	MCE	0.20	Acrylic	50	25AS020AN	25AS020AS
		0.45	Acrylic	50	25AS045AN	25AS045AS
	Nylon	0.10	Polypropylene	100	30NP010AN*	-
		0.10	Acrylic	100	-	25NS010AS
		0.22	Polypropylene	100	30NP022AN*	-
		0.22	Acrylic	100	-	25NS022AS
		0.45	Polypropylene	100	30NP045AN*	-
		0.45	Acrylic	100	-	25NS045AS
		1.20	Polypropylene	100	30NP120AN*	-
		1.20	Acrylic	100	-	25NS120AS
		5.00	Polypropylene	100	30NP500AN*	-
		Cellulose Acetate	0.20	Acrylic	50	25CS020AN
	0.45		Acrylic	50	25CS045AN	25CS045AS
	0.80		Acrylic	50	25CS080AN	25CS080AS
	PTFE, Hydrophilic	0.20	Polypropylene	100	25HP020AN	-
		0.50	Polypropylene	100	25HP050AN	-
	PTFE, Hydrophobic	0.20	Polypropylene	50	25JP020AN	-
		0.50	Polypropylene	50	25JP050AN	-

25mm PP



25mm Acrylic



\* Nylon nonsterile type 30 mm diameter only

## LABODISC

50	Cellulose Acetate	0.20	Polypropylene	10	50CP020AN	50CP020AS
		0.45	Polypropylene	10	50CP045AN	50CP045AS
	PTFE, Hydrophobic	0.20	Polypropylene	10	50JP020AN	-
		0.50	Polypropylene	10	50JP050AN	-

50mm

