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 pre-sterilized and individually packaged, or non-sterile 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
Diameter		3 mm	13 mm	25 mm		30 mm	50 mm
Housing material	-	PP	PP	PP	Acrylic	PP	PP
Filtration Area	cm^2	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 with male luer slip

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

Mixed Cellulose Esters (MCE)
- Properties: A hydrophilic membrane
- Higher protein binding than cellulose acetate for most proteins
- High porosity provides a high flow rate

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
- Model for Ion Chromatography with the lowest levels of extractables is available.

PTFE, hydrophobic
- Application: use as vent

Nylon
- Properties: Naturally hydrophilic membrane
- Low extractables without wetting agent

PES
- Low protein binding & extractables
- Pre-sterilized by Gamma irradiation

For ordering information, see page 16.

ORDERING INFORMATION DISPOSABLE SYRINGE FILTER UNITS

2 5	A	S	0 2 0	A	S
Diameter	Membrane material	Housing material	Pore size	Filter surface	Sterile
50 · · · 50mm	A · · · Mixed Cellulose Esters(MCE)	S · · · Acrylic	010 · · · 0.10μm	A · · · White Plane	S · · · Pre-Sterilized
30 · · · 30mm	C · · · Cellulose Acetate	P · · · Polypropylene	020 · · · 0.20μm	C · · · Ion Chromatography	N · · · Non-Sterile
25 · · · 25mm	H · · · PTFE, hydrophilic		045 · · · 0.45μm	R · · · Gamma irradiated	
13 · · · 13mm	J · · · PTFE, hydrophobic		050 · · · 0.50μm		
03 · · · 3mm	N · · · NYLON		080 · · · 0.80μm		
	S · · · PES		120 · · · 1.20μm		
			500 · · · 5.00μm		

DISMIC

Diam.	Membrane material	Pore size (μm)	Housing material	Quantity per package	Non-Sterile	Sterile
3	Cellulose Acetate	0.20	Polypropylene	100	03CP020AN	03CP020AS
		0.45	Polypropylene	100	03CP045AN	03CP045AS
	PTFE, Hydrophobic	0.50	Polypropylene	100	03JP050AN	-
13	Cellulose Acetate	0.20	Polypropylene	100	13CP020AN	13CP020AS
		0.45	Polypropylene	100	13CP045AN	13CP045AS
	PTFE, Hydrophilic	0.20	Polypropylene	100	13HP020AN	-
		0.45	Polypropylene	100	13HP045AN	-
	PTFE Hydrophilic for Ion Chromatography	0.20	Polypropylene	50	13HP020CN	-
		0.45	Polypropylene	50	13HP045CN	-
	PTFE, Hydrophobic	0.20	Polypropylene	100	13JP020AN	-
		0.50	Polypropylene	100	13JP050AN	-
	NYLON	0.20	Polypropylene	100	13NP020AN	-
		0.45	Polypropylene	100	13NP045AN	-
25	MCE	0.20	Acrylic	50	25AS020AN	25AS020AS
		0.45	Acrylic	50	25AS045AN	25AS045AS
	Cellulose Acetate	0.20	Acrylic	50	25CS020AN	25CS020AS
		0.45	Acrylic	50	25CS045AN	25CS045AS
		0.80	Acrylic	50	25CS080AN	25CS080AS
	PTFE, Hydrophilic	0.20	Polypropylene	100	25HP020AN	-
		0.45	Polypropylene	100	25HP045AN	-
	PTFE, Hydrophobic	0.20	Polypropylene	50	25JP020AN	-
		0.50	Polypropylene	50	25JP050AN	-
	NYLON	0.20	Polypropylene	100	25NP020AN	-
		0.45	Polypropylene	100	25NP045AN	-
	PES	0.20	Acrylic	50	-	25SS020RS
		0.45	Acrylic	50	-	25SS045RS
30	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*	-

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	-

※Bulk pack of 13mm, 25mm and 30mm diameter (Non-Sterile) is available.

3mm



13mm



25mm Acrylic



25mm PP



50mm



ADVANTEC®