

DISMIC Disposable Syringe Filter Units

LABODISC Disposable In-Line/Syringe Filter Units



Features

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

The Advantec range of DISMIC syringe filters is versatile in terms of volume to be filtered and which kind of liquids to be filtered.

- 3 mm filters for volumes <2 ml
- 13 mm filters for volumes <10 ml
- 25 mm filters for volumes <50 ml
- 50 mm filters for volumes <1 liter

Different membrane types and filter housings available for any kind of filtration. Some types available both non-sterile and sterile.

Specifications:

		DISMIC 3	DISMIC 13	DISMIC 25		LABODISC
Housing material		PP	PP	PP	Acrylic	PP
Housing diameter	[mm]	3	13	25	25	50
Filtration area	[cm ²]	0.06	0.9	4.0	4.0	19.6
Hold-up volume	[ml]	<0.01	<0.03	<0.1	<0.1	<3.0
Sample volume	[ml]	<2 ml	<10 ml	<50 ml	<50 ml	<1 liter
Pressure limit	[psi]	74	74	74	74	49
Max. operating temperature	[°C]	60	60	60	45	60
Connections		Inlet: female luer-lock / Outlet: male luer slip				7-13.5 mm hose barb, female luer slip

Note: Pressure limits for DISMIC 13HP and DISMIC 25HP is 57 psi.

DISMIC – Disposable Syringe Filter Units

DISMIC 3

Membrane Types and Ordering Information

Membrane Types

	Characteristics
Cellulose Acetate	A commonly used hydrophilic membrane. Low protein binding, suitable for aqueous protein solutions. Suitable for most alcohols.
PTFE, hydrophobic	Ideal for filtration of solvents, acids and bases. Air venting.



Ordering Information

Diameter [mm]	Membrane material	Pore size (µm)	Housing material	Packing	Cat. No. Non-sterile	Cat. No. Sterile
3	Cellulose Acetate	0.20	Polypropylene	100	03CP020AN	03CP020AS
3	Cellulose Acetate	0.45	Polypropylene	100	03CP045AN	03CP045AS
3	PTFE, hydrophobic	0.50	Polypropylene	100	03JP050AN	-

DISMIC – Disposable Syringe Filter Units

DISMIC 13

Membrane Types and Ordering Information

Membrane Types

	Characteristics
Cellulose Acetate	A commonly used hydrophilic membrane. Low protein binding, suitable for aqueous protein solutions. Suitable for most alcohols.
PTFE, hydrophobic	Ideal for filtration of solvents, acids and bases. Air venting.
PTFE, hydrophilic	Versatile: Suitable for both solvents and aqueous solutions. Ideal for filtering HPLC samples. Studies has shown that hydrophilic PTFE has a low binding of Pesticides. The models in blister packs, Cat. Nos.13HP020CN and 13HP045CN, are specially manufactured for Ion Chromatography analysis.



13CP AN / AS



13JP



13HP



13HP in blister pack

Table of Negative Ion elution comparison

Item	F ⁻	Cl ⁻	No ₂ ⁻	Br ⁻	No ₃ ⁻	PO ₄ ³⁻	SO ₄ ²⁻
13HP020CN	ND*	16.0	ND	ND	ND	ND	ND
13HP045CN	ND	10.2	ND	ND	ND	ND	ND
A company filter unit	ND	56.6	ND	ND	7.6	ND	35.6
B company filter unit	ND	22.6	ND	ND	ND	ND	ND
C company filter unit	ND	14.0	ND	ND	90.4	ND	88.6

*) No Detection: less than detection limit

Ordering Information

Diameter [mm]	Membrane material	Pore size (µm)	Housing material	Packing	Cat. No. Non-sterile	Cat. No. Sterile
13	Cellulose Acetate	0.20	Polypropylene	100	13CP020AN	13CP020AS
13	Cellulose Acetate	0.45	Polypropylene	100	13CP045AN	13CP045AS
13	PTFE, hydrophobic	0.20	Polypropylene	100	13JP020AN	-
13	PTFE, hydrophobic	0.50	Polypropylene	100	13JP050AN	-
13	PTFE, hydrophilic	0.20	Polypropylene	100	13HP020AN	-
13	PTFE, hydrophilic	0.45	Polypropylene	100	13HP045AN	-
13	PTFE, hydrophilic	0.20	Polypropylene	50	13HP020CN	-
13	PTFE, hydrophilic	0.45	Polypropylene	50	13HP045CN	-

DISMIC – Disposable Syringe Filter Units

DISMIC 25

Membrane Types and Ordering Information

Membrane Types

	Characteristics
Mixed Cellulose Ester	A hydrophilic membrane with high porosity which provides a high flow rate. This type will bind proteins.
Cellulose Acetate	A commonly used hydrophilic membrane. Low protein binding, suitable for aqueous protein solutions. Suitable for most alcohols.
PTFE, hydrophobic	Ideal for filtration of solvents, acids and bases. Air venting.
PTFE, hydrophilic	Versatile: Suitable for both solvents and aqueous solutions. Ideal for filtering HPLC samples. Studies has shown that hydrophilic PTFE has a low binding of Pesticides.



25AS AN / AS



25CS AN / AS



25JP



25HP

Ordering Information

Diameter [mm]	Membrane material	Pore size (µm)	Housing material	Packing	Cat. No. Non-sterile	Cat. No. Sterile
25	Mixed Cellulose Ester	0.20	Acrylic	50	25AS020AN	25AS020AS
25	Mixed Cellulose Ester	0.45	Acrylic	50	25AS045AN	25AS045AS
25	Cellulose Acetate	0.20	Acrylic	50	25CS020AN	25CS020AS
25	Cellulose Acetate	0.45	Acrylic	50	25CS045AN	25CS045AS
25	Cellulose Acetate	0.80	Acrylic	50	25CS080AN	25CS080AS
25	PTFE, hydrophobic	0.20	Polypropylene	50	25JP020AN	25JP020AS
25	PTFE, hydrophobic	0.50	Polypropylene	50	25JP050AN	-
25	PTFE, hydrophilic	0.20	Polypropylene	100	25HP020AN	-
25	PTFE, hydrophilic	0.45	Polypropylene	100	25HP045AN	-