

LiquiPro™ BU

High Purity Hydrophilic PES Membrane Filters



LiquiPro™ BU is a superior advanced duo-retention filtration mechanism for dilute HF and BOE cleaning applications.

Final assembly is purged with filtered nitrogen for initial cleanliness. A variety of end fittings are offered for easy installation.

Features and Benefits

- Optimised highly asymmetric polyethersulfone (HAPES) high flow, low pressure drop membrane provides sieving and absorption particle retention mechanisms down to 50 nm.
- LiquiPro™ BU filter is hydrophilic and can be used without pre-wetting to maximise process up-time.
- LiquiPro™ BU eliminates pre-wetting and micro-bubbles to reduce downtime. Manufactured from HAPES membrane which has superior wetting properties compared with polyethylene. If spontaneously wet, it remains fully wet and eliminates micro-bubble generation which is critical for advanced node processing.
- Fast rinse up time as filters has been pre-flushed with Ultrapure DI water (18.2 Megaohm-cm, TOC less than 100 ppb).
- Certificate of quality enclosed with each product lot for quality assurance that ensures filter-to-filter and lot-to-lot performance. Manufactured in cleanroom environment.

Typical Applications

- BOE (Buffered-Oxide Etch) and Dilute HF recirculation bath applications.
- Megasonic cleaning DHF, NH_4OH filtration.
- DI Water cleaning application in semiconductor wafer fabs.

Performance Specifications

Pore size rating

0.03, 0.05, 0.1, 0.2, 0.45 and 1.0 μm

Maximum differential pressure:

5.2 bar (75.4 psi) @ 25°C (77°F)

1.9 bar (27.5 psi) @ 80°C (176°F)

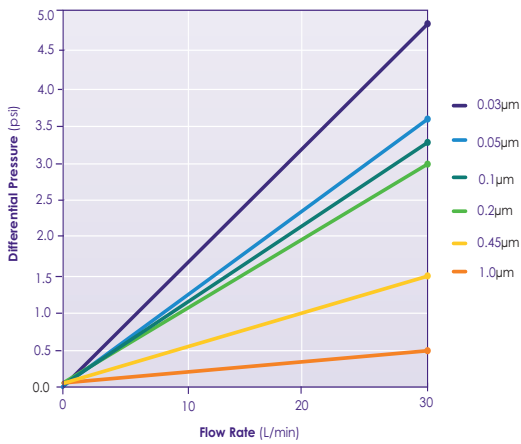
Compatibility and purity

Only HAPES membrane and 100% virgin polypropylene used. No binders, surfactants or adhesives used, to ensure compatibility with a broad range of solutions.

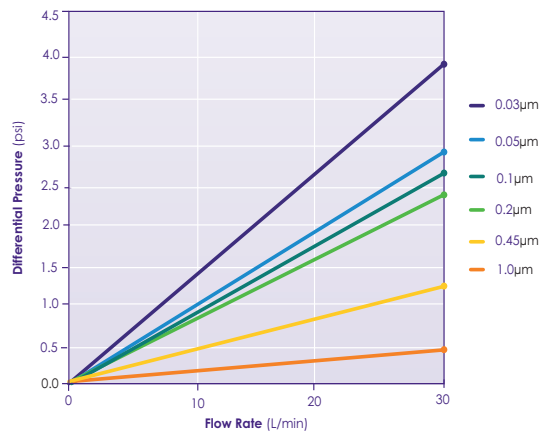
Materials of construction

Filter media:	Highly asymmetric polyethersulfone (HAPES) hydrophilic membrane
Support:	Polypropylene (PP)
End caps:	Polypropylene (PP)
Core, cage:	Polypropylene (PP)
O-rings:	E-FKM, FFKM, FEP encapsulated Silicone
Gaskets:	PTFE (as supplied with DOE cartridges)

Flow Rates: LiquiPro™ BU



Flow Rates: LiquiPro™ BUX



* Flow rate is for a 25.4 cm (10in) cartridge. For liquids other than water, multiply differential pressure by fluid viscosity (cP).

Diameter	Code-A	Code-M
4in (Dia: 69 mm)	123 mm +/- 2	
10in (Dia: 69 mm)	266 mm +/- 2	254 mm +/- 2 default. Customer to specify length
10in (Dia: 83 mm)	243mm +/-2	
20in (Dia: 69 mm)	506 mm +/- 4	508 mm +/- 2 default. Customer to specify length
30in (Dia: 69 mm)	750 mm +/- 4	

Ordering Information

To form a part number, please choose one option from each column below.

Product Code: **1** **2** **3** **4** **5** **6** **7** **BU003AGE04K**

Product Name	Micron Rating	Adaptor code	Seals	Cleanliness	Length	Key Option
BU LiquiPro BU (69mm Dia)	003 0.03µm	A 222 / flat	G FEP Encap Silicone	E E-Grade	04 4"	K EZ Key compatible to use with ChemLock® cartridge housing
	005 0.05µm	B 226 / fin	K FFKM	U Ultra High Purity (< 40ppb)	10 10"	
	010 0.1µm	C 222 / fin	T E-FKM		20 20"	
	020 0.2µm	K 226 / flat	J PTFE Gasket (Code M)		30 30"	
	045 0.45µm	M DOE				
	100 1.0µm					

Product Code: **1** **2** **3** **4** **5** **6** **7** **BUX003AGE10K**

Product Name	Micron Rating	Adaptor code	Seals	Cleanliness	Length	Key Option
BUX LiquiPro BU HPX (83mm Dia)	003 0.03µm	A 222 / flat	G FEP Encap Silicone	E E-Grade	10 10"	K EZ Key compatible to use with ChemLock® cartridge housing
	005 0.05µm		K FFKM	U Ultra High Purity (< 40ppb)		
	010 0.1µm		T E-FKM			
	020 0.2µm					
	045 0.45µm					
	100 1.0µm					

PF0951/Rev3/Jan26