

Microgard™ Advanced Nylon Filters

Meet the critical pre-filtration demands in various bulk photochemical applications

Controlling contaminants in process streams is a vital way to improve operating efficiency and enable technology advances. Microgard™ Advanced Nylon filters deliver best-in-class contamination control performance in bulk chemical manufacturing and photolithography applications. The nylon membrane has a higher metal removal efficiency and better on wafer defect performance than other materials.

The portfolio of cartridge and disposable filters is optimized to include a choice of cleaning technologies to meet the critical process demands in pre-filtration bulk photochemical applications. Our cleaning technologies further reduce particle shedding and metal and organic extractables.

APPLICATIONS

Our cleaning technologies are designed to further reduce particle shedding and metal and organic extractables in various photochemical applications in both logic and DRAM manufacturing.

- Photoresist
- Solvents
- Other ancillary chemicals

FEATURES & BENEFITS

Nylon membrane	Has higher removal efficiency of metal and other contaminants Provides better on-wafer defect performance
Utilizes the latest nylon cleaning process	Lowers levels of organic and metal extractables, and particle shedding
Optimized membrane technology with retention to 5 nm	Enables high flow rate with no significant impact on productivity



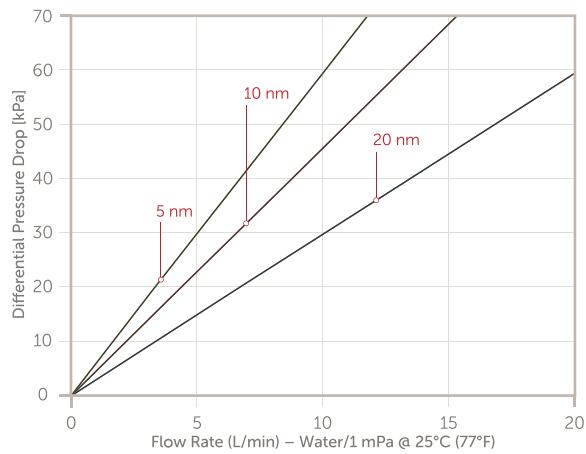
A choice of cleaning technologies is available.

SPECIFICATIONS

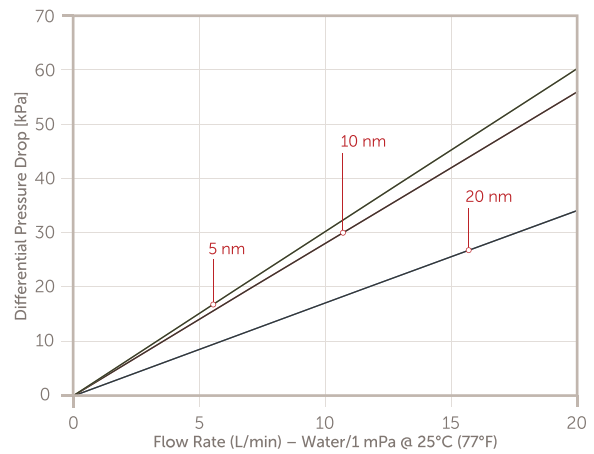
Materials of construction	Membrane	Nylon (polyamide)		
	Supports, core, sleeve	HDPE		
	O-ring	E-FKM or Kalrez® (AS568-222)		
Surface area		Standard clean	Ultraclean	Ultraclean Plus
	20" Ø70 mm	20 nm, 10 nm: 1.4 m ²	20 nm, 10 nm: 1.64 m ²	5 nm: 1.64 m ²
	20" Ø83 mm	20 nm: 2.0 m ²	20 nm, 10 nm: 2.62 m ²	–
	10" Ø70 mm	20 nm, 10 nm, 5 nm: 0.71 m ²	20 nm, 10 nm: 0.82 m ²	5 nm: 0.82 m ²
	10", Ø83 mm	20 nm, 10 nm: 1.0 m ²	20 nm, 10 nm: 1.31 m ²	–
Disposable	20 nm, 10 nm: 0.14 m ²	20 nm, 10 nm: 0.14m ²	5 nm: 0.17 m ²	

PERFORMANCE DATA

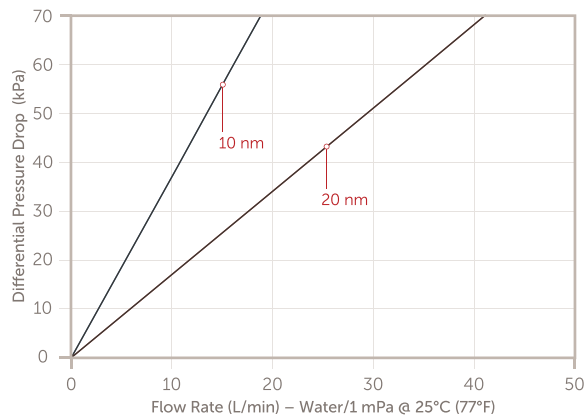
Microgard 10" Ø70 mm Cartridge Filters



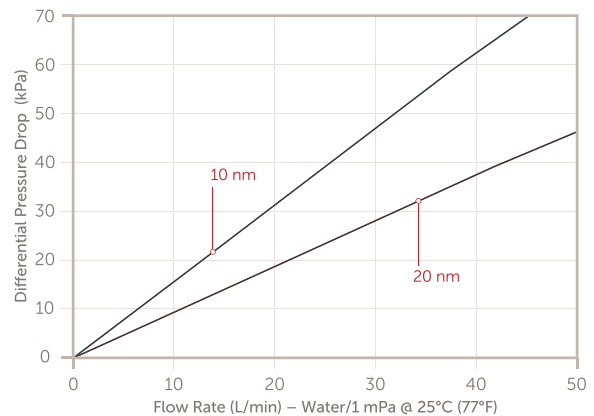
Microgard 20" Ø70 mm Cartridge Filters



Microgard 10" Ø83 mm Cartridge Filters

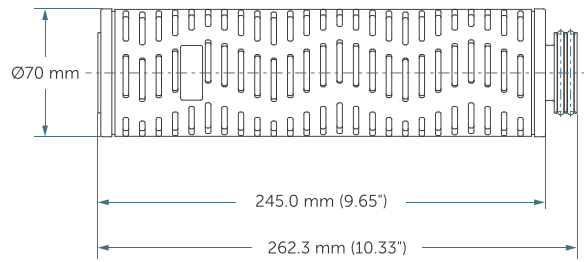


Microgard 20" Ø83 mm Cartridge Filters

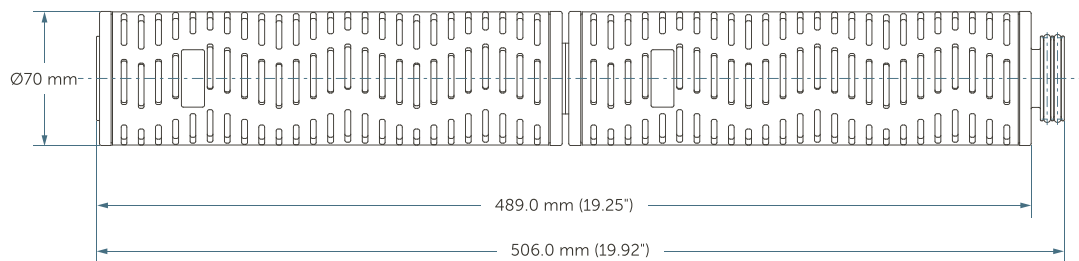


DIMENSIONS

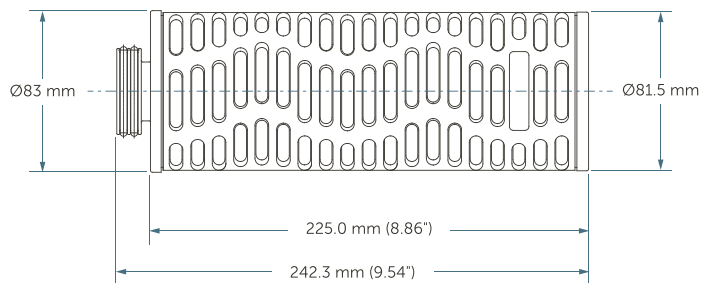
Microgard™ 10" Ø70 mm Cartridge Filter



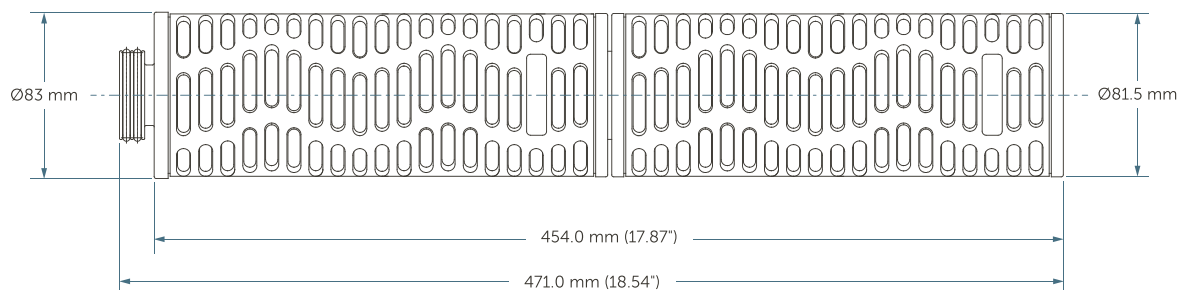
Microgard™ 20" Ø70 mm Cartridge Filter



Microgard™ 10" Ø83 mm Cartridge Filter

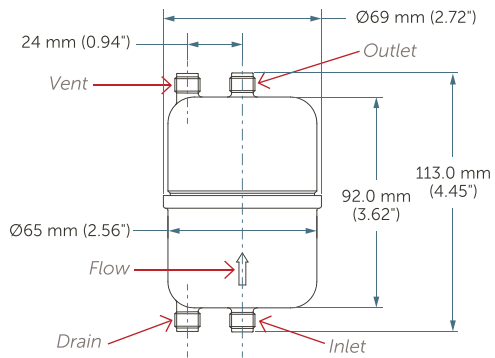


Microgard™ 20" Ø83 mm Cartridge Filter



DIMENSIONS

Optimizer® D Disposable Filter



ORDERING INFORMATION

PART NUMBER	PRODUCT TYPE	LENGTH	DIAMETER	FILTER CLEANING	PORE SIZE RATING
CWNF01PNTUCP	Cartridge filter	10"	70 mm	Ultraclean Plus (UCP)	5 nm
CWNF01PST	Cartridge filter	10"	70 mm	Standard	5 nm
CWNF02PNTUCP	Cartridge filter	20"	70 mm	Ultraclean Plus (UCP)	5 nm
CWNF0S2S1UCP	Small disposable filter	N/A	N/A	Ultraclean Plus (UCP)	5 nm
CWNT01PNTUC	Cartridge filter	10"	70 mm	Ultraclean (UC)	10 nm
CWNT01PST	Cartridge filter	10"	70 mm	Standard	10 nm
CWNT01XNKUC	Cartridge filter	10"	83 mm	Ultraclean (UC)	10 nm
CWNT01XST	Cartridge filter	10"	83 mm	Standard	10 nm
CWNT02PNTUC	Cartridge filter	20"	70 mm	Ultraclean (UC)	10 nm
CWNT02PST	Cartridge filter	20"	70 mm	Standard	10 nm
CWNT02XNKUC	Cartridge filter	20"	83 mm	Ultraclean (UC)	10 nm
CWNT03PST	Cartridge filter	30"	70 mm	Standard	10 nm
CWNT0S2S1UC	Small disposable filter	N/A	N/A	Ultraclean (UC)	10 nm
CWNT0S2S3	Small disposable filter	N/A	N/A	Standard	10 nm
CWNX01PNTUC	Cartridge filter	10"	70 mm	Ultraclean (UC)	20 nm
CWNX01PNTUCP	Cartridge filter	10"	70 mm	Ultraclean Plus (UCP)	20 nm
CWNX01PST	Cartridge filter	10"	70 mm	Standard	20 nm

ORDERING INFORMATION

PART NUMBER	PRODUCT TYPE	LENGTH	DIAMETER	FILTER CLEANING	PORE SIZE RATING
CWNX01XNKUC	Cartridge filter	10"	83 mm	Ultraclean (UC)	20 nm
CWNX01XST	Cartridge filter	10"	83 mm	Standard	20 nm
CWNX02PNTUC	Cartridge filter	20"	70 mm	Ultraclean (UC)	20 nm
CWNX02PST	Cartridge filter	20"	70 mm	Standard	20 nm
CWNX02XNKUC	Cartridge filter	20"	83 mm	Ultraclean (UC)	20 nm
CWNX02XST	Cartridge filter	20"	83 mm	Standard	20 nm
CWNX0S2S1UC	Small disposable filter	N/A	N/A	Ultraclean (UC)	20 nm
CWNX0S2S1UCP	Small disposable filter	N/A	N/A	Ultraclean Plus (UCP)	20 nm
CWNX0S2S3	Small disposable filter	N/A	N/A	Standard	20 nm

FOR MORE INFORMATION

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