

MicroGard® II - abstract specifications



Filtering properties

Bacterial Filtration Efficiency (BFE)

30 L/ min (Nelson report ¹)	99.99944%
750 L/min (HPA report ²)	96.8368%

Viral Filtration Efficiency (VFE)

30 L/ min (Nelson report ¹)	99.9924%
750 L/min (HPA report ²)	97.3569%

Filtering material

Filtering material	Microstat M190
Filtering layer density (filtering material and 3 layers scrim)	(258 +/- 11%) g/m ²
Filtering layer thickness	(3.0 +/- 0.5) mm
Filtering layer mass	(1.3 +/- 0.2) g
Filtering layer diameter (effective)	(80 +/- 0.5) mm
Filtering layer surface (effective)	(50.2 +/- 1.2%) cm ²

Filter mass: housing and filter material

	MicroGard® IIB	MicroGard® IIC
Mass	(38 +/- 3%) g	(42 +/- 3%) g

Filter dimensions

Filter volume excl. adapters and housing	(55 +/- 3%) ml
Connection inner diameter system side	(30 +/- 2%) mm tapered port
Connection outer diameter patient side (MicroGard® IIC only)	(30 +/- 2%) mm tapered port

Filter ambient conditions

Temperature	0 ... 42 deg C
	32 ... 108 deg F
Relative humidity (non condensing)	0 ... 100 %

Filter resistance at various flows: MicroGard® IIB (+/- 4%)

l/s	l/min	kPa.s/l	cm H2O
0.50	30	0.034	0.35
1.00	60	0.036	0.37
1.67	100	0.039	0.39
5.00	300	0.051	0.52
8.33	500	0.063	0.64
10.0	600	0.069	0.71
11.7	700	0.075	0.77
14.0	840	0.084	0.86
14.0	840	ATS ³⁾ max: 0.150	ATS ³⁾ max: 1.53

Filter resistance at various flows: MicroGard® IIC (+/- 4%)

l/s	l/min	kPa.s/l	cm H2O
0.50	30	0.034	0.34
1.00	60	0.035	0.36
1.67	100	0.037	0.38
5.00	300	0.046	0.47
8.33	500	0.054	0.56
10.0	600	0.059	0.60
11.7	700	0.063	0.65
14.0	840	0.069	0.71
14.0	840	ATS ³⁾ max: 0.150	ATS ³⁾ max: 1.53

Materials

Materials and additives compliant with:	REACH regulations
Housing (with mouthpiece)	Polystyrol 454 C (BASF)
Filter does NOT contain:	Bis(2-ethylhexyl) phthalate (DEHP)
	Bisphenol A (BPA)
	Polyvinyl chloride (PVC)

Country of origin

Country of origin	Germany
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CareFusion JAEGER® MasterScreen, SensorMedics® Vmax and Micro Medical pulmonary instruments have been validated using MicroGard® filters.

- 1) Nelson Report 10003754 - Viral Filtration Efficiency Test (VFE) at an Increased Challenge level GLP Report Nelson Report 10003754 - Bacterial Filtration Efficiency Test (BFE) at an Increased Challenge level GLP Report
- 2) HPA Report 53/10 An evaluation of filtration efficiencies against bacterial and viral aerosol challenges
- 3) ATS Standardization of Spirometry [ATS 2005, p. 332] ISO 23747; [ISO 26782:2009, p. 9]



 CAUTION - U.S Federal Law restricts this device to sale by or on the order of a physician.

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