

Product P/N	4222/703	Mod. 984A
Description	MAXI Maxi Filter	Rev. 06

### 4222/703

### MAXI Maxi Filter



PRODUCT	Inlet/Outlet Connectors: 22mm Male/15mm Female – 22mm Female ISO Connectors.		
DESCRIPTION	Approx. dimensions: 68.5mm diameter x 67.2mm height.		
	Weight: 25g (approx.). Bidirectional Filter.		
	Bidirectional Filter.		
MANUFACTURER	GVS Filter Technology UK		
NAME	NFC House		
	Vickers Industrial Estate		
	Mellishaw Lane, Morecambe		
	Lancashire LA3 3EN - United Kingdom		
	Information		
	Tel. +44 (0) 1524 847600		
	e-mail: gvsuk@gvs.com		
INTENDED USE /	Filters protect the patient's airways effectively from exogenous microbial loads, thus reducing the		
APPLICATION	risk of extrinsic colonisation and infection. Used to help reduce cross contamination between		
01.100.00	patient and machine.		
CLASS OF THE	Disposable medical device - Class IIa		
PRODUCT	Rule 2 Annex IX 93/42 / EEC		
	Rule 5 Annex VIII MDR 2017/745		
MATERIALS	Filter media: Electrostatic Blended Synthetic Fiber		
	Frame/Housing Polymer: Transparent Green Tinted Polypropylene (PP) Colour: Transparent Green		
	Colour. Transparent Green		
	Regulatory Documentation Required:		
	- Biocompatibility according ISO 10993-1		
	- ROHS		
	- BSE/TSE		
	- DEHP plasticizer Free and latex free		
	- Aging		
	- REACH		
	- Conflict minerals		
PRODUCT	Appearance/Visual		
CHARACTERISTICS	As shown on drawing.		
	Physical/Mechanical		
	Approx. dimensions: 68.5mm diameter x 67.2mm height.		



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	Weight: 25g (approx.) Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mm Interfaces (ex: Input / Output / Out	Female ISO	
	Biological Pyrogenicity: <0.3 EU/mI Biocompatibility to ISO10993 Category – Surface device Contact – Skin Contact Duration - <24hrs		
	Functional Air Flow Rate: 301/min, 601/min, 901/min.		
	Filtration Efficiency: NaCl Filter Efficiency @ 30L/min using TSI 8130: Min. 98.5% (REP: 0840/16 with factor of safety applied to Min.)	6	
	Pressure Drop: Flow Resistance @ 30l/min in accordance with EN ISO 9360-1: Max.88Pa Flow Resistance @ 60l/min in accordance with EN ISO 9360-1: Max.187Pa Flow Resistance @ 90l/min in accordance with EN ISO 9360-1: Max.297Pa (REP:0853/16 with 10% of safety margin added to Max.)		
	Internal Volume: 27ml (approx.)		
	Operating Lifetime: Refer to Instructions for Use.		
	Shelf Lifetime: 5 years from the date of manufacture.		
	Bacterial Filtration Efficiency in accordance with ASTM F2101-07: <b>Min. 99.999%</b> (Staphylococcus aureus @ 30L /minute) Ref.4222/701 REP: EXT486704B		
	Viral Filtration Efficiency in accordance with ASTM F2101-07: <b>Min. 99.999%</b> (Bacteriophage @ 30L/ minute) Ref.4222/701 REP: EXT486705B.1		
	Gas leakage in accordance with EN9360: Max.0.0 ml/min (REP:1269/17)		
	Cleanliness Device assembled within Class 8 Cleanroom.		
	Testing Leak test at 3PSI.		
INSTRUCTIONS / WARNINGS	Multi-language IFU available.		
PRODUCT SHELF LIFE	, in the second		
	Expiration date and date of manufacture are detailed on the product labelling.		

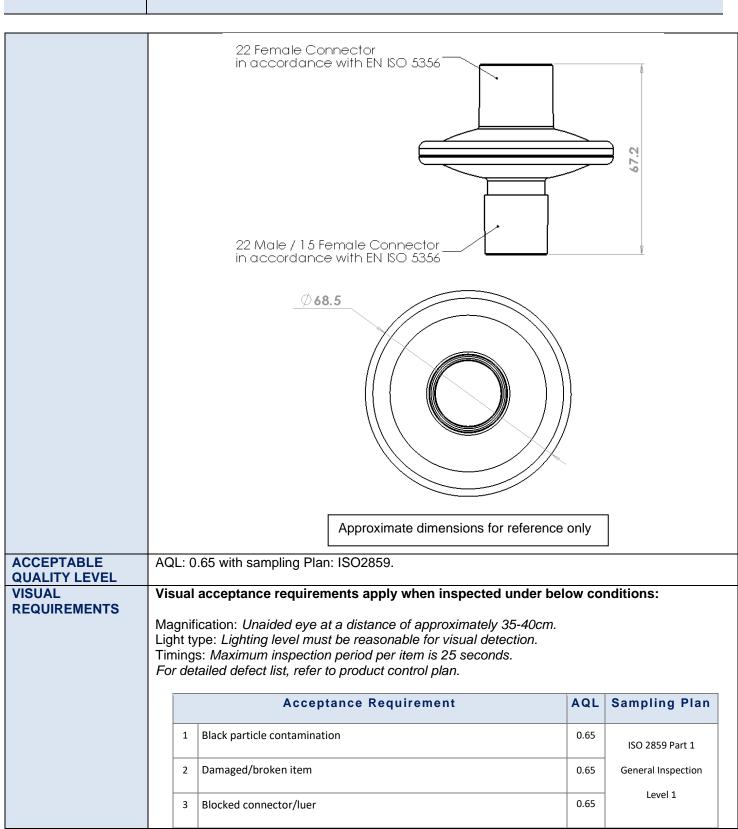


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STERILIZATION	Sterile version of product available (Ethylene oxide - Max 55°C)
APPLICABLE STANDARDS AND REGULATIONS	Product Certification required: - CE mark - FDA
	Applicable Standards and Technical Regulations:  Biological evaluation of Medical Devices - Part 1: Evaluation and Testing - ISO 10993-1.
	Respiratory protective devices - Method for test - Part 7: Determination of particle filter penetration - BS EN 13274-7.
	Medical devices- Application of risk management to medical devices - BS EN ISO 14971.
	Medical devices – symbols to be used with medical device labels, labelling and information to be supplied - Part1: General requirements - ISO 15223-1.
	Breathing system filters for anaesthetic and respiratory use — Part 1: Salt test method to assess filtration performance - ISO 23328-1.
	Anaesthetic and respiratory equipment – conical connectors – part 1: Cones and sockets – ISO 5356-1.
	Sterilization of health care products – Ethylene oxide sterilization – ISO 11135-1.
	Sterilization of medical devices – Microbiological Methods – Part 1: Estimation of population of microorganisms on products – ISO 11737-1.
PACKAGING AND LABELING	Number of pcs per bag is determined by the sales order. The first barcode label is applied to the outside of the bags. The second barcode label is applied onto the outside of the box. Each bag is labelled with the following traceability information: <ul> <li>Quantity</li> <li>Product description</li> <li>Product Date</li> <li>Lot Number (OL and 5-digit batch number to trace back to raw materials used)</li> <li>Operator Code</li></ul>
CERTIFICATE OF COMPLIANCE	With each shipment, GVS UK Customer Service will send the CofC to the Customer, based on the lot numbers and date of manufacture.  Conformity declaration is printed on every invoice and Certificate is according to UNI EN 10204 type 2.1.  The Quality management system is in compliance with ISO 13485.
DRAWING	The attached drawing is part of this product specification and must not be duplicated or made accessible to a third party without written permission from GVS Filter Technology UK Ltd.



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		4	Weld marks	0.65		
		5	Short fill moulding	0.65		
		6	Rough surface or edges	0.65		
		7	Pronounced injection gate	0.65		
		8	Deformation/distortion	0.65		
		9	Crack	0.65		
		10	Oil/grease	0.65		
		11	Wrong colour	0.65		
		12	Weld fault	0.65		
GENERAL SAFETY AND PERFORMANCE	Special characteristic: Product characteristic which can affect safety or compliance with regulations, fit, function, performance or subsequent processing of product.  Special Characteristic # 01:					
REQUIREMENTS	Flow Resistance @ 30L/min in accordance with EN ISO 9360-1,					
	Flo	w F	Resistance @ 60L/min in accordance with EN ISO 9360-1,			
	Flo	w F	Resistance @ 90L/min in accordance with EN ISO 9360-1.			
	_		al Characteristic # 02: NaCl Filter Efficiency @ 30L/min using N 13274-7.	TSI 813	30 in accordance	
	Sp	ecia	al Characteristic # 03: Bacterial Filtration Efficiency in accord	ance wit	h ASTM F2101-07,	
	Vira	al F	iltration Efficiency in accordance with ASTM F2101-07.			
	Special Characteristic # 04: Conical connectors compliant in accordance with EN5356.			th EN5356.		
	Special Characteristic # 05: Gas Leakage compliant in accordance with EN9360.					
			escribes the properties of product above indicated. This deription, drawing references, defect specification, biologic			



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#### **REVISIONS AND APPROVALS:**

DATE	REV.	REASON FOR	ISSUED AND CONTROLLED BY:	APPROVED BY:
		CHANGE	(NAME/FUNCTION/SIGNATURE)	(NAME/FUNCTION/SIGNATURE)
03/08/2021	4	Functional	Kinga Gawdzik – Engineering	Andrew Pearce – Quality Manager
		characteristics	Support Technician	
		updated.		<i>D</i>
			C dr.	
			Caust.	
			SEC. 198	

CUSTOMER APPROVAL:			
We accept this	We accept this material specification as a part of the agreed terms of delivery.		
Company Nam	ne:		
Approved by:			
	NAME/FUNCTION		
	SIGNATURE		
	DATE		
	COMPANY STAMP		

Please send back this document signed for approval. If we will not receive this specification signed, we consider the first order placed as implicit approval.