

Product P/N	4222/700	
		Mod. 984A
Description	MAXI Maxi Angled Filter	Rev. 06

### 4222/700

## MAXI Maxi Angled Filter



PRODUCT DESCRIPTION	Inlet/Outlet Connectors: 22mm Male/15mm Female – Angled 22mm Female/15mm Male ISO and Ø4.3mm ISO Luer Port.  Approx. dimensions: 68.5mm diameter x 77.6mm height.  Weight: 25g (approx.).  Bidirectional Filter.
MANUFACTURER NAME	GVS Filter Technology UK NFC House Vickers Industrial Estate Mellishaw Lane, Morecambe Lancashire LA3 3EN - United Kingdom  Information Tel. +44 (0) 1524 847600 e-mail: gysuk@gys.com
INTENDED USE / APPLICATION	Filters protect the patient's airways effectively from exogenous microbial loads, thus reducing the risk of extrinsic colonisation and infection. Used to help reduce cross contamination between patient and machine. The luer port connector is used for monitoring respiratory and/or anaesthesia gases.
CLASS OF THE PRODUCT	Disposable medical device - Class IIa  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  Regulatory Documentation Required:  - Biocompatibility according ISO 10993-1  - ROHS - BSE/TSE - DEHP plasticizer Free and latex free - Aging - REACH - Conflict minerals
PRODUCT CHARACTERISTICS	Appearance/Visual As shown on drawing.



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Physical/Mechanical

Approx. dimensions: 68.5mm diameter x 77.6mm height.

Weight: 25g (approx.).

Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female - 22mm Female/15mm

Male ISO and Ø4.3mm ISO Luer Port.

Operating temperature Range: **N/A**Storage temperature Range: **5 °C to 40 °C** 

Bidirectional Filter.

**Biological** 

Pyrogenicity: <0.3 EU/ml
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.)

Pressure Drop:

Flow Resistance @ 30l/min in accordance with EN ISO 9360-1: **Max.99Pa**Flow Resistance @ 60l/min in accordance with EN ISO 9360-1: **Max.231Pa**Flow Resistance @ 90l/min in accordance with EN ISO 9360-1: **Max.385Pa** 

(REP:0842/16 with 10% safety margin added to Max.)

Internal Volume: 47ml (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: Min. 99.999%

(Staphylococcus aureus @ 30L /minute) REP: EXT486704C

Viral Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.999%

(Bacteriophage @ 30L/minute) REP: EXT486705C.1

Gas leakage in accordance with EN9360: Max.0.0 ml/min (REP:1268/17)

Cleanliness

Device assembled within Class 8 Cleanroom.

Testing

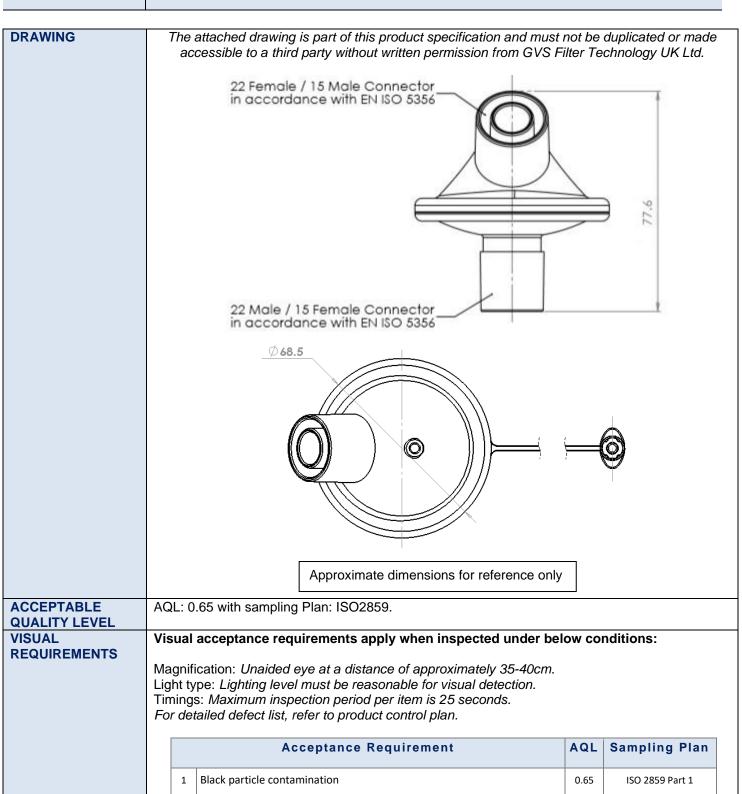
Leak test at 3PSI.



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INSTRUCTIONS / WARNINGS	Multi-language IFU available.
PRODUCT SHELF LIFE	5 years from the date of manufacture.
STERILIZATION	Expiration date and date of manufacture are detailed on the product labelling.  Sterile version of product available (Ethylene oxide - Max 55°C)
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:  Valuantity Product description Product Date Lot Number (OL and 5-digit batch number to trace back to raw materials used) Operator Code Different lots in one box are separately closed and separately labelled. Bulk products will be packed in double PE bags.
CERTIFICATE OF	
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.



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Product P/N	4222/700 Mod 984			Mod. 984A	
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		2	Damaged/broken item	0.65	General Inspection Level 1
		3	Blocked connector/luer	0.65	Level 1
		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 REQUIREMENTS	Special characteristic: Product characteristic which can affect safety or compliance with regulations, fit, function, performance or subsequent processing of product.  Special Characteristic # 01:  Flow Resistance @ 30L/min in accordance with EN ISO 9360-1,				npliance with
			esistance @ 60L/min in accordance with EN ISO 9360-1,		
	Flow Resistance @ 90L/min in accordance with EN ISO 9360-1.  Special Characteristic # 02: NaCl Filter Efficiency @ 30L/min using TSI 8130 in accordance with EN 13274-7.				
	Spe	ecia	I Characteristic # 03: Bacterial Filtration Efficiency in accord	lance wi	th ASTM F2101-07,
	Vira	al Fi	Itration Efficiency in accordance with ASTM F2101-07.		
	Spe	ecia	I Characteristic # 04: Conical connectors compliant in accord	dance w	rith EN5356.
This material ansait			I Characteristic # 05: Gas Leakage compliant in accordance escribes the properties of product above indicated. This d		
			cription, drawing references, defect specification, biologic		



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

DATE	REV.	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (NAME/FUNCTION/SIGNATURE)	APPROVED BY: (NAME/FUNCTION/SIGNATURE)
03/08/2021	4	Functional characteristics updated.	Kinga Gawdzik – Engineering Support Technician	Andrew Pearce – Quality Manager

CUSTOMER APPROVAL:					
We accept this material specification as a part of the agreed terms of delivery.					
Company Name:					
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.