

Product P/N	4444/01	
		Mod. 984A
Description	Slimline Bacterial/Viral	Rev. 06

4444/01

#### Slimline Bacterial/Viral



PRODUCT	Inlet/Outlet Connectors: 22mm Male/15mm Female – 22mm Female/15mm Male ISO.
	Approx. dimensions: 68.5mm diameter x 67.1mm height.
DESCRIPTION	Weight: 25g (approx.).
	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
	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 Clear Polypropylene (PP)
	Colour: Transparent Clear
	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.
	Bhysical/Machanical
	Physical/Mechanical
	Approx. dimensions: 68.5mm diameter x 67.1mm height.



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	Mainht 25n (annual)		
	Weight: 25g (approx.). Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female – 22mi Male ISO.	m Female/15mm	
	Operating temperature Range: <b>N/A</b> Storage temperature Range: <b>5</b> °C to 40 °C Bidirectional Filter.		
	Biological Pyrogenicity: <0.3 EU/ml Biocompatibility to ISO10993 Category – Surface device		
	Contact – <b>Skin</b> Contact Duration - <b>&lt;24hrs</b>		
	Functional Air Flow Rate: <b>301/min, 601/min, 901/min.</b>		
	Filtration Efficiency: <i>Filter Efficiency</i> @ 30L/min using TSI 8130: <i>Min.</i> 98.5% (REP: 0829/16 With safety factor 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.220Pa Flow Resistance @ 90l/min in accordance with EN ISO 9360-1: Max.352Pa (REP: 0831/16 with 10% of safety margin added to Max.)		
	Internal Volume: <b>29ml (approx.)</b> Operating Lifetime: <b>Refer to Instructions for Use.</b> Shelf Lifetime: <b>5 years from the date of manufacture.</b>		
	Bacterial Filtration Efficiency in accordance with ASTM F2101-07: <b>Min. 99.999</b> (Staphylococcus aureus @ 30L /minute) REP: EXT439447.	9%	
	Viral Filtration Efficiency in accordance with ASTM F2101-07: <b>Min. 99.9 %</b> (Bacteriophage @ 30L/ minute) REP: EXT439446.		
	Gas leakage in accordance with EN9360: Max. 0.0 ml/min (REP: 2094/20)		
	Cleanliness Device assembled within Class 8 Cleanroom.		
	Testing Leak test at 3PSI.		
INSTRUCTIONS / WARNINGS	Multi-language IFU available.		
PRODUCT SHELF	5 years from the date of manufacture. Expiration date and date of manufacture are detailed on the product labelling.		
STERILIZATION	N/A		



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APPLICABLE	Product Certification required:	
STANDARDS AND REGULATIONS	- 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: ✓ Quantity ✓ 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 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 9001, 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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	22mm Female / 15mm Male Connector in accordance with EN ISO 5356 22mm Male / 15mm Female Connector in accordance with EN ISO 5356
ACCEPTABLE	Approximate dimensions for reference only AQL: 0.65 with sampling Plan: ISO2859.
QUALITY LEVEL	
VISUAL REQUIREMENTS	Visual acceptance requirements apply when inspected under below conditions: Magnification: Unaided eye at a distance of approximately 35-40cm. Light type: Lighting level must be reasonable for visual detection. Timings: Maximum inspection period per item is 25 seconds. For detailed defect list, refer to product control plan.
	Acceptance Requirement AQL Sampling Plan
	1     Black particle contamination     0.65
	2 Damaged/broken item 0.65 ISO 2859 Part 1 General Inspection
	3 Blocked connector/luer 0.65 Level 1
	4 Weld marks 0.65



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		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:         Flow Resistance @ 30L/min in accordance with EN ISO 9360-1			npliance with		
REQUIREMENTS						
	Flo	w R	Resistance $@$ 60L/min in accordance with EN ISO 9360-1			
	Flo	w R	Resistance $@$ 90L/min in accordance with EN ISO 9360-1			
		<b>ecia</b> 274-	<b>Il Characteristic # 02:</b> Filter Efficiency @ 30L/min using TSI & .7.	3130 in	accordance with EN	V
	Spe	ecia	I Characteristic # 03: Bacterial Filtration Efficiency in accorda	ance w	ith ASTM F2101-07	•
	Vira	al Fi	iltration Efficiency in accordance with ASTM F2101-07			
	Spe	ecia	I Characteristic # 04: Conical connectors compliant in accord	lance w	vith EN5356	

This material specification describes the properties of product above indicated. This document contains general requirements, material description, drawing references, defect specification, biological material requirements.

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

DATE	REV.	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (NAME/FUNCTION/SIGNATURE)	APPROVED BY: (NAME/FUNCTION/SIGNATURE)
03/08/2020	3	Biological characteristics amended.	Kinga Gawdzik – Engineering Support Technician	Andrew Pearce – Quality Manager



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	CUSTOMER APPROVAL:		
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 h	ack this document signed for approval. If we will not receive this specification signed, we consider the first order placed as implicit approval.		