

Product P/N	2200/47BDK	
		Mod. 984A
Description	Smoke Set	Rev. 06

2200/47BDK

Smoke Set



PRODUCT DESCRIPTION	Inlet/Outlet Connectors of 2200/47 : 8mm-8mm hose barbed both sides. Flow direction indicated by IN marking on filter face. Approximate dimensions: 65mm diameter x 52mm height. Weight: 17g (approx.). 400mm PVC tube with mobile luer lock, tube attached to the filter. Mobile male luer lock connector: OD6.6mm/ID3.8mm, OD ISO 4mm/ID 2.6mm with approx. dimensions: 32mm height. PVC tubing: OD=9.55mm, ID=6.35mm with approx. dimensions: 400mm length.
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: gvsuk@gvs.com
INTENDED USE /	The combination particle and gas filter is used as part of a smoke evacuation system which
APPLICATION	reduces particulate and odour causing noxious chemicals from surgical smoke generated in laparoscopic procedures while maintaining a clear field of vision. It is indicated for use during any minimally invasive surgery involving insufflation, electro cautery, laser, or ultrasonic scalpel use.
CLASS OF THE	Disposable medical device - Class IIa
PRODUCT	Rule 2 Annex IX 93/42 / EEC
MATERIALS	Rule 2 Annex VIII MDR 2017/745 Filter media: Glass Microfibre Media and nonwoven polyester (PET) with carbon granules
	Frame/Housing Polymer: 2200/47: Clear Styrene-Butadiene Copolymer (SBC) Tube: PVC Mobile luer lock: Acrylonitryle Butadiene Styrene (ABS) Colour: Transparent Clear Adhesive: UV curable adhesive Regulatory Documentation Required:



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	 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.	
	Physical/Mechanical Approximate dimensions of 2200/47: 65mm diameter x 52mm height. Weight: 17g (approx.). 400mm tube with mobile luer lock, tube attached to the filter. Interfaces (ex: Input / Output connectors): 2200/47: 8mm – 8mm hose barbed both sides. Mobile male luer lock connector: OD6.6mm/ID3.8mm, OD ISO 4mm/ID 2.6mm approx. dimensions: 32mm height. PVC tubing: OD=9.55mm, ID=6.35mm with approx. dimensions: 400mm length. Operating temperature Range: N/A Storage temperature Range: 5 °C to 40 °C	
	Unidirectional Filter. Flow direction indicated by IN marking on filter face. Biological Pyrogenicity: <0.3 EU/ml Biocompatibility to ISO10993 Category – Surface device Contact - Skin Contact Duration - <24hrs	
	For kit performance characteristics for 2200/47BDK – Please refer to 2200/47 T sheet. Functional Air Flow Rate: <i>Min. 50I/min</i> @ <i>5 PSI</i> (REP 0615/15 with 20% Factor of Safety applied to N	
	Filtration Efficiency: DEHS Efficiency using 0.3 micron @ 30l/min: Min. 99.99% (REP 0698/16 with Factor of Safety applied to Min.)	
	Operating Lifetime: Refer to Instructions for Use.	
	Shelf Lifetime: 3 years from the date of manufacture.	
	Bacterial Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.999 % (Staphylococcus aureus @ 30L /minute) REP: EXT 846022-S01	6
	Viral Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.999 % (Bacteriophage @ 30L/ minute) REP: EXT846021-S01	



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	Cleanliness
	Device assembled within Class 8 Cleanroom.
	Devide assembled within class o clear room.
	Testing
	Burst test: <i>Min. 13 psi</i> (REP 0619/15 with 20% Factor of Safety) Leak test at 4.5PSI.
	Lean test at 4.07 of
INSTRUCTIONS / WARNINGS	Multi-language IFU available.
PRODUCT SHELF	3 years from the date of manufacture.
LIFE	Expiration date and date of manufacture are detailed on the product labelling.
STERILIZATION	Sterile version of product available (Ethylene oxide - Max 55°C)
APPLICABLE STANDARDS AND	Product Certification required: - CE mark
REGULATIONS	- FDA
	Applicable Standards and Technical Degulations.
	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.
	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	Number of non-new loads and terrorised by the color and a
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	With each shipment, GVS UK Customer Service will send the CofC to the Customer, based on
COMPLIANCE	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.

type 2.1.



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DRAWING	The attached drawing is part of this product specification and must not be duplicated or maccessible to a third party without written permission from GVS Filter Technology UK Ltd. Approximate dimensions for reference only	
	PVC Tubing 400mm 65mm Mobile Luer Lock	
ACCEPTABLE	AQL: 0.65 with sampling Plan: ISO2859.	
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.	



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			Acceptance Requirement	AQL	Sampling Plan
		1	Black particle contamination	0.65	
		2	Damaged/broken item	0.65	
		3	Blocked connector/luer	0.65	
		4	Weld marks	0.65	
		5	Short fill moulding	0.65	
	-	6	Rough surface or edges	0.65	ISO 2859 Part 1
		7	Pronounced injection gate	0.65	General Inspection Level 1
	-	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	regu Spe	ulati e cia	 characteristic: Product characteristic which can affect safe: ions, fit, function, performance or subsequent processing of p Characteristic # 01: Air flow rate at 5PSI Characteristic # 02: Filter Efficiency @ 30L/min using DEF	roduct.	•
	_		I Characteristic # 03: Bacterial Filtration Efficiency in accord	dance w	rith ASTM F2101-07
			Itration Efficiency in accordance with ASTM F2101-07 I Characteristic # 04: Burst Pressure		
This material specific			escribes the properties of product above indicated. This	docume	ent contains genera

REVISIONS AND APPROVALS:

DATE	REV.	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (NAME/FUNCTION/SIGNATURE)	APPROVED BY: (NAME/FUNCTION/SIGNATURE)
20/08/2021	3	Sterilisation section updated.	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 Name		
Approved by:	NAME/FUNCTION	
-	SIGNATURE	
Ī	DATE	
-	COMPANY STAMP	
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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.