

PRODUCT SPECIFICATION

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

2200/47BBK

Smoke Set



PRODUCT DESCRIPTION	<p>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 and roller clamp, 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.</p>
MANUFACTURER NAME	<p>GVS Filter Technology UK NFC House Vickers Industrial Estate Mellishaw Lane, Morecambe Lancashire LA3 3EN - United Kingdom</p> <p>Information Tel. +44 (0) 1524 847600 e-mail: gvsuk@gvs.com</p>
INTENDED USE / APPLICATION	<p>The combination particle and gas filter is used as part of a smoke evacuation system which 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.</p>
CLASS OF THE PRODUCT	<p>Disposable medical device - Class IIa Rule 2 Annex IX 93/42 / EEC Rule 2 Annex VIII MDR 2017/745</p>
MATERIALS	<p>Filter media: <i>Glass Microfibre Media and nonwoven polyester (PET) with carbon granules</i></p> <p>Frame/Housing Polymer: 2200/47: <i>Clear Styrene-Butadiene Copolymer (SBC)</i> <i>Tube: PVC</i> <i>Mobile luer lock: Acrylonitrile Butadiene Styrene (ABS)</i></p> <p>Colour: <i>Transparent Clear</i> Adhesive: <i>UV curable adhesive</i></p> <p>Regulatory Documentation Required:</p> <ul style="list-style-type: none"> - Biocompatibility according ISO 10993-1 - ROHS

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	<ul style="list-style-type: none"> - BSE/TSE - DEHP plasticizer Free and latex free - Aging - REACH - Conflict minerals
PRODUCT CHARACTERISTICS	<p>Appearance/Visual As shown on drawing.</p> <p>Physical/Mechanical Approximate dimensions of 2200/47: 65mm diameter x 52mm height. Weight: 17g (approx.). 400mm PVC tube with mobile luer lock and roller clamp, tube attached to the filter.</p> <p>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 with approx. dimension: 32mm height. PVC tubing: OD=9.55mm, ID=6.35mm with approx. dimension: 400mm length.</p> <p>Operating temperature Range: N/A Storage temperature Range: 5 °C to 40 °C Unidirectional Filter. Flow direction indicated by IN marking on filter face.</p> <p>Biological Pyrogenicity: <0.3 EU/ml Biocompatibility to ISO10993 Category – Surface device Contact – Skin Contact Duration - <24hrs</p> <p>For kit performance characteristics for 2200/47BBK – Please refer to 2200/47 Technical data sheet.</p> <p>Functional Air Flow Rate: Min. 50l/min @ 5 PSI (REP 0615/15 with 20% Factor of Safety applied to Min.)</p> <p>Filtration Efficiency: DEHS Efficiency using 0.3 micron @ 30l/min: Min. 99.99% (REP 0698/16 with Factor of Safety applied to Min.)</p> <p>Operating Lifetime: Refer to Instructions for Use.</p> <p>Shelf Lifetime: 3 years from the date of manufacture.</p> <p>Bacterial Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.999% (<i>Staphylococcus aureus</i> @ 30L /minute) REP: EXT 846022-S01</p> <p>Viral Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.999% (<i>Bacteriophage</i> @ 30L/ minute) REP: EXT846021-S01</p>

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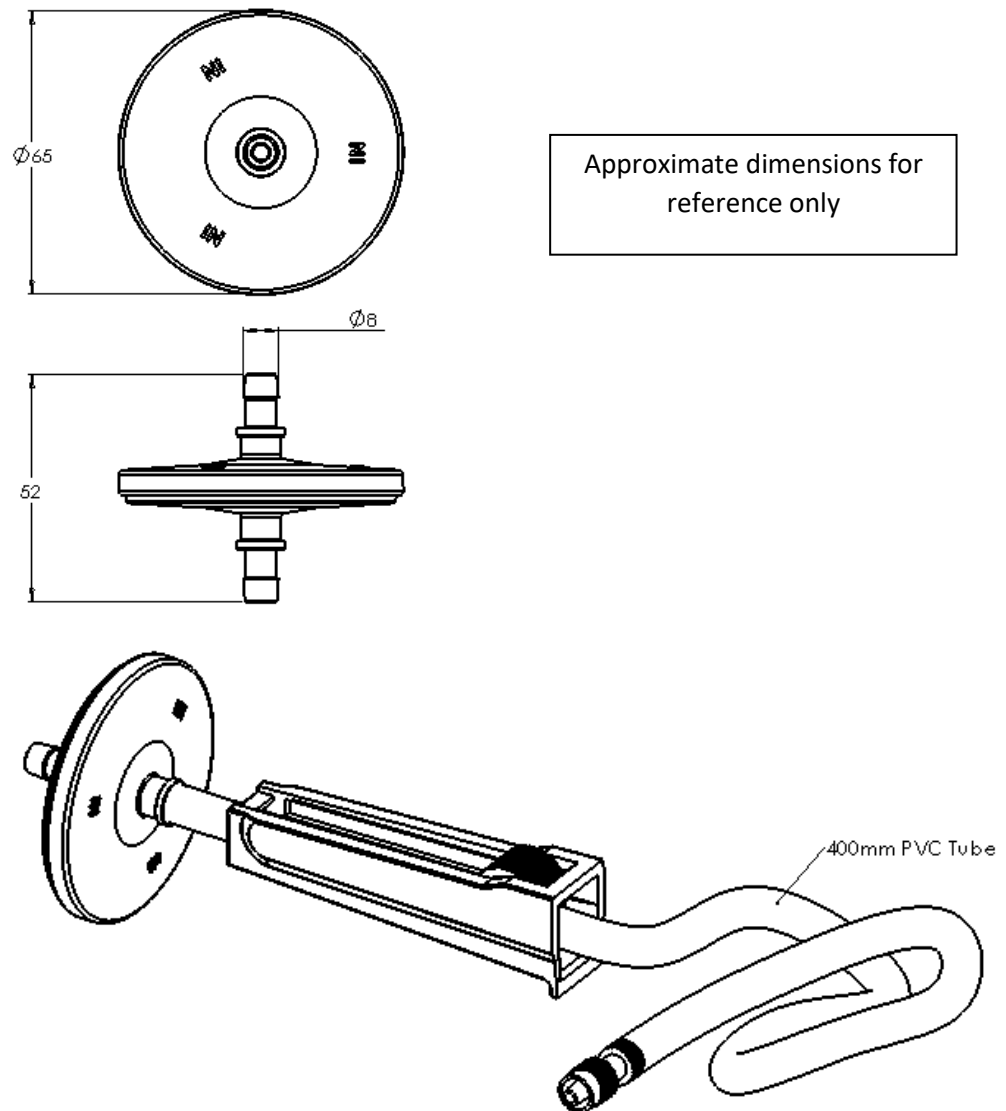
	<p>Cleanliness Device assembled within Class 8 Cleanroom.</p> <p>Testing Burst test: Min. 13 psi (REP 0619/15 with 20% Factor of Safety) Leak test at 4.5PSI.</p>
INSTRUCTIONS / WARNINGS	<i>Multi-language IFU available.</i>
PRODUCT SHELF LIFE	<p><i>3 years from the date of manufacture.</i></p> <p><i>Expiration date and date of manufacture are detailed on the product labelling.</i></p>
STERILIZATION	<i>Sterile version of product available (Ethylene oxide - Max 55°C)</i>
APPLICABLE STANDARDS AND REGULATIONS	<p>Product Certification required:</p> <ul style="list-style-type: none"> - CE mark - FDA <p>Applicable Standards and Technical Regulations: <i>Biological evaluation of Medical Devices - Part 1: Evaluation and Testing - ISO 10993-1.</i> <i>Respiratory protective devices - Method for test - Part 7: Determination of particle filter penetration - BS EN 13274-7.</i> <i>Medical devices- Application of risk management to medical devices - BS EN ISO 14971.</i> <i>Medical devices – symbols to be used with medical device labels, labelling and information to be supplied - Part1: General requirements - ISO 15223-1.</i> <i>Sterilization of health care products – Ethylene oxide sterilization – ISO 11135-1.</i> <i>Sterilization of medical devices – Microbiological Methods – Part 1: Estimation of population of Microorganisms on products – ISO 11737-1.</i></p>
PACKAGING AND LABELING	<p><i>Number of pcs per bag is determined by the sales order.</i> <i>The first barcode label is applied to the outside of the bags.</i> <i>The second barcode label is applied onto the outside of the box.</i> <i>Each bag is labelled with the following traceability information:</i></p> <ul style="list-style-type: none"> ✓ Quantity ✓ Product description ✓ Product Date ✓ Lot Number (OL and 5-digit batch number to trace back to raw materials used) ✓ Operator Code <p><i>Different lots in one box are separately closed and separately labelled.</i> <i>Bulk products will be packed in double PE bags.</i></p>
CERTIFICATE OF COMPLIANCE	<p><i>With each shipment, GVS UK Customer Service will send the CofC to the Customer, based on the lot numbers and date of manufacture.</i> <i>Conformity declaration is printed on every invoice and Certificate is according to UNI EN 10204 type 2.1.</i> <i>The Quality management system is in compliance with ISO 9001, ISO 13485.</i></p>

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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.



ACCEPTABLE QUALITY LEVEL

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	ISO 2859 Part 1 General Inspection Level 1
	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	
	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: Air flow rate at 5PSI

Special Characteristic # 02: Filter Efficiency @ 30L/min using DEHS @ 0.3µm EN 1822.

Special Characteristic # 03: Bacterial Filtration Efficiency in accordance with ASTM F2101-07
Viral Filtration Efficiency in accordance with ASTM F2101-07

Special Characteristic # 04: Burst Pressure

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)
20/08/2021	3	IFU section updated on Mod.984.	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

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.