

Product P/N	9065/760	
		Mod. 984A
Description	Eco MIDI Angled Coil Paper HMEF	Rev. 06

9065/760

Eco MIDI Angled Coil Paper HMEF



PRODUCT DESCRIPTION	Inlet/Outlet Connectors: 22mm Male/15mm Female and angled 22mm Female/15mm Male ISO Connectors and Ø4.3mm ISO Luer Port. Bidirectional Filter – Corrugated Cellulose HME paper, Patient Side. Approx. dimensions: Ø48.1mm x 91.3mm height. Weight: 24gm (approx.).
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 / APPLICATION	The filters are used on patient breathing circuits to avoid the potential for any cross-contamination between the patient and the machine. For use within Anaesthesia, Respiratory and Critical Care clinical areas. Indicated for use with patients whose upper airways are being bypassed by an artificial tracheal airway or receiving artificial ventilator support. 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 2 Annex VIII MDR 2017/745
MATERIALS	Filter media: Electrostatic Blended Synthetic Fiber and Corrugated Cellulose HME paper Frame/Housing Polymer: Transparent Green Tinted Polypropylene (PP) Colour: Transparent Green Mesh: Clear Polypropylene (PP) Regulatory Documentation Required: - Biocompatibility according ISO 10993-1 - ROHS - BSE/TSE - DEHP plasticizer Free and latex free - Aging



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	- REACH			
	- Conflict minerals			
PROPULOT				
PRODUCT CHARACTERISTICS	Appearance/Visual			
CHARACTERISTICS	As shown on drawing.			
	Physical/Mechanical			
	Approx. dimensions: Ø48.1mm x 91.3mm height.			
	Weight: 24gm (approx.).			
	Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female and angled 22mm			
	Female/15mm Male ISO Connectors and Ø4.3mm ISO Luer Port.			
	Operating temperature Range: N/A			
	Storage temperature Range: 5 °C to 40 °C Bidirectional Filter – Corrugated Cellulose HME paper, Patient Side.			
	Prancotional Filtor Corragatou Conarco Filing paper, Fation Crao.			
	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.			
	Eiltration Efficiency: NoCl Eilter Efficiency @ 201 /min using TSI 9120: Min 00 59/			
	Filtration Efficiency: NaCl Filter Efficiency @ 30L/min using TSI 8130: Min. 90.5% (REP: 1878/19 with Factor of Safety added)			
	Pressure Drop:			
	Flow Resistance @ 30L/min in accordance with EN ISO 9360-1: <i>Max. 292Pa</i> Flow Resistance @ 60L/min in accordance with EN ISO 9360-1: <i>Max. 658Pa</i>			
	Flow Resistance @ 90L/min in accordance with EN ISO 9360-1: <i>Max. 1117Pa</i>			
	(REP: 1875/19 with 10% safety margin added to Max.)			
	Internal Volume: 40ml (approx.)			
	Internal Volume: 40ml (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) Ref.9065/710 REP: EXT486704E			
	(Staphylososoda darede & 662/minato) Rollosoda Te Rei Text 16676 IE			
	Viral Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.99%			
	(Bacteriophage @ 30L/ minute) Ref.9065/710 REP: EXT486705E.1			
	W			
	(NEF. 1070/19 WILT +0.5IIII lactor or salety)			
	Moisture Output @ 500ml Tidal Volume in accordance with EN ISO 9360-1: Min. 28.3mg/l			
	(REP:1876/19 with -0.5ml factor of safety)			
	(Bacteriophage @ 30L/ minute) Ref.9065/710 REP: EXT486705E.1 Moisture Loss @ 500ml Tidal Volume in accordance with EN ISO 9360-1: Max. 13.2mg/l (REP: 1876/19 with +0.5ml factor of safety) Moisture Output @ 500ml Tidal Volume in accordance with EN ISO 9360-1: Min. 28.3mg/l			



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	Gas leakage in accordance with EN9360: Max. 0.0 ml/min (REP:1904/19)	
	Cleanliness Device assembled within Class 8 Cleanroom.	
	Testing Leak test at 3PSI.	
INSTRUCTIONS / WARNINGS	Multi-language IFU available.	
PRODUCT SHELF LIFE	5 years from the date of manufacture. 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 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 – IS 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. 	



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Bulk products will be packed in double PE bags.	
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.	
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. Approximate dimensions for reference only 22mm Female / 15mm Male Connector in accordance with EN ISO 5356 22mm Male / 15mm Female Connector in accordance with EN ISO 5356	
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 General Inspection
		7	Pronounced injection gate	0.65	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	Special characteristic: Product characteristic which can affect safety or compliance with regulations, fit, function, performance or subsequent processing of product. Special Characteristic # 01:			mpliance with	
REGORE MENTO	Flov	w R	esistance @ 30L/min in accordance with EN ISO 9360-1,		
	Flov	w R	esistance @ 60L/min in accordance with EN ISO 9360-1,		
	Flo	w R	esistance @ 90L/min in accordance with EN ISO 9360-1.		
			ll Characteristic # 02: NaCl Filter Efficiency @ 30L/min using N 13274-7.	TSI 81	30 in accordance
	Spe	ecia	I Characteristic # 03: Bacterial Filtration Efficiency in accord	ance w	ith ASTM F2101-07
	Vira	al Fi	iltration Efficiency in accordance with ASTM F2101-07.		
			ll Characteristic # 04: Moisture Output @ 500ml Tidal Volum 60-1,	e in acc	cordance with EN
	Moi	istur	re Loss @ 500ml Tidal Volume in accordance with EN ISO 930	601	
	Special Characteristic # 05: Gas Leakage compliant in accordance with EN9360.				



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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)
30/07/2021	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.