

Product P/N	8866/100	Mod. 984A
Description	Comfort fit HMEF	Rev. 06

#### 8866/100

# Comfort fit HMEF



PRODUCT	Inlet/Outlet Connectors of the filter:
DESCRIPTION	22mm Male / 15mm Female and 22mm Female / 15mm Male ISO Connectors and Ø4.3mm ISO Luer Port.
	Bidirectional filter, foam patient side.
	Approx.dimensions:111.2mm x 59.7mm x 60.5mm.
	Weight: 29.2gm (approx.).
	Similar existing product: N/A Specify: Eco range HMEF filters.
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 /	The filters are used on patient breathing circuits to avoid the potential for any cross-contamination
APPLICATION	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	Disposable medical device - Class IIa
PRODUCT	·
T KODOOT	Rule 2 Annex IX 93/42 / EEC
	Rule 2 Annex VIII MDR 2017/745
MATERIALS	Filter media: Electrostatic Blended Synthetic Fiber and White Polyurethane Foam (PU)
	Frame/Housing Polymer: Transparent Clear Polypropylene (PP) Cap & Strap: Evoprene G969 - Red
	Colour: Transparent Clear
	Regulatory Documentation Required:
	- Biocompatibility according ISO 10993-1 - ROHS
	- BSE/TSE
	- DEHP plasticizer Free and latex free
	- Aging
	- REACH



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	- Conflict minerals
PRODUCT CHARACTERISTICS	Appearance/Visual As shown on drawing.  Physical/Mechanical Approx. dimensions: 111.2mm x 59.7mm x 60.5mm. Weight: 29.2gm (approx.). Interfaces (ex: Input / Output connectors): 22mm Male / 15mm Female and 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, foam patient side.  Biological
	Pyrogenicity: <0.3 Eu/ml Biocompatibility to ISO10993 Category – Surface device Contact – Skin Contact Duration - <24hrs  Functional Air Flow Rate: 30l/min, 60l/min, 90l/min.
	Filtration Efficiency: NaCl Filter Efficiency @ 30L/min using TSI 8130: Min. 95% (Ref.8866/01 REP: 0998/16 with factor of safety applied to Min.)  Pressure Drop:
	Flow Resistance @ 30I/min in accordance with EN ISO 9360-1: Max. 129.8Pa Flow Resistance @ 60I/min in accordance with EN ISO 9360-1: Max. 382.8Pa Flow Resistance @ 90I/min in accordance with EN ISO 9360-1: Max. 809.6Pa (REP: 0559/15 with 10% of safety factor added to Max.)
	Internal Volume: 58ml (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: <b>Min. 99.999%</b> (Staphylococcus aureus @ 30L /minute) Lab180266.1
	Viral Filtration Efficiency in accordance with ASTM F2101-07: <b>Min. 99.999%</b> (Bacteriophage @ 30L/ minute) Lab181185.1
	Moisture Loss @ 500ml Tidal Volume in accordance with EN ISO 9360-1: Max. 13.9mg/l (REP: 0523/15 with +0.5ml factor of safety)
	Moisture Output @ 500ml Tidal Volume in accordance with EN ISO 9360-1: Min. 27.5mg/l REP: 0523/15 With -0.5ml factor of safety)

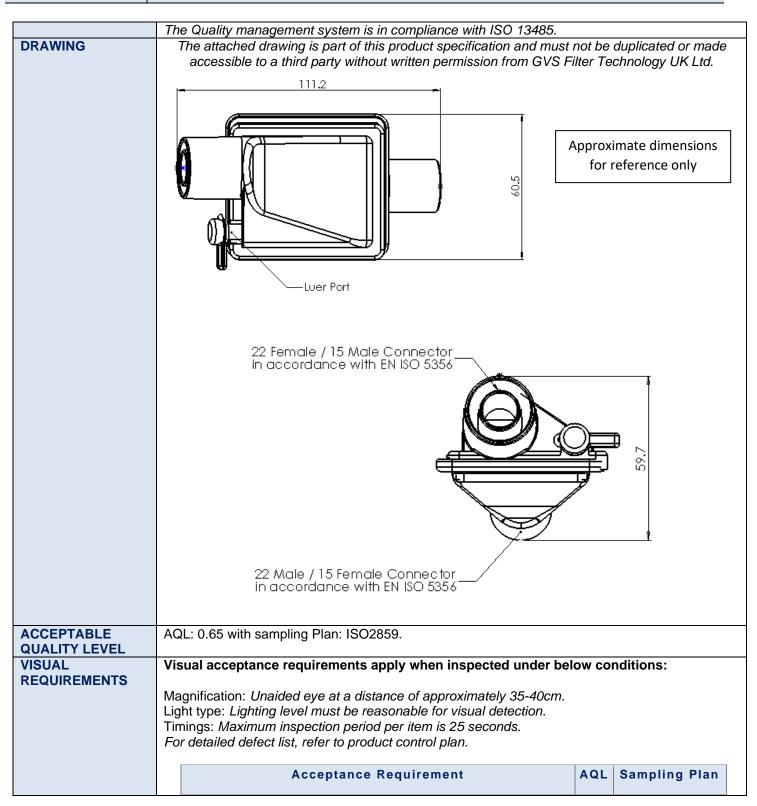


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	Gas leakage in accordance with EN9360: Max. 0.0 ml/min (REP:2314/21)
	Cleanliness
	Device assembled within Class 8 Cleanroom.
	Testing
	Leak test at 3PSI.
INSTRUCTIONS /	Multi-language IFU available.
WARNINGS	Europe from the data of manufacture
PRODUCT SHELF LIFE	5 years from the date of manufacture.
	Expiration date and date of manufacture are detailed on the product labelling.
STERILIZATION	N/A
APPLICABLE STANDARDS AND	Product Certification required: - CE mark
REGULATIONS	- 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.
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
	<ul> <li>✓ Product Date</li> <li>✓ Lot Number (OL and 5-digit batch number to trace back to raw materials used)</li> </ul>
	✓ Convertible (OE and 5-digit batter 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.



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Product P/N	886	6/10	00		Mod. 984A
Description	Con	nfor	t fit HMEF		
		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	_		Il characteristic: Product characteristic which can affect safe	•	npliance with
PERFORMANCE			tions, fit, function, performance or subsequent processing of p	roduct.	
REQUIREMENTS			Il Characteristic # 01:		
			Resistance @ 30L/min in accordance with EN ISO 9360-1,		
		Flow Resistance @ 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.			
	-		Il Characteristic # 03: Bacterial Filtration Efficiency in accord	dance wi	th ASTM F2101-0
	Viral Filtration Efficiency in accordance with ASTM F2101-07.				
	Special Characteristic # 04: Moisture Output @ 500ml Tidal Volume in accordance with EN				
	ISO 9360-1,				
		Moisture Loss @ 500ml Tidal Volume in accordance with EN ISO 9360-1.			
	Special Characteristic # 05: Conical connectors compliant in accordance with EN5356.				
			al Characteristic # 06: Gas Leakage compliant in accordance		

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



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

DATE	REV.	REASON FOR	ISSUED AND CONTROLLED BY:	APPROVED BY:
		CHANGE	(NAME/FUNCTION/SIGNATURE)	(NAME/FUNCTION/SIGNATURE)
30/07/2021	3	Functional	Kinga Gawdzik – Engineering	Andrew Pearce – Quality Manager
		characteristics	Support Technician	
		updated.	Caust.	melds
			Caus	Mille

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		
	COMPANT 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.