

PRODUCT SPECIFICATION

Product P/N	4333/770	Mod. 984A
Description	ECO Maxi Angled Coil Paper HME	Rev. 06

4333/770

***ECO Maxi Angled
Coil Paper HME***



PRODUCT DESCRIPTION SUMMARY	<p>Inlet/Outlet Connectors: 22mm Male/15mm Female and angled 22mm Female/15mm Male ISO Connectors and Ø4.3mm ISO Luer Port.</p> <p>Bidirectional Filter – Corrugated Cellulose HME paper Patient Side.</p> <p>Approx. dimensions: Ø68.5mm x 87.5mm height.</p> <p>Weight: 34gm (approx.).</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>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.</p> <p>The luer port connector is used for monitoring respiratory and/or anaesthesia gases.</p>
CLASS OF THE PRODUCT	<p>Disposable medical device - Class IIa</p> <p>Rule 2 Annex IX 93/42 / EEC</p> <p>Rule 6 Annex VIII 2017/745</p>
MATERIALS	<p>Filter media: <i>Corrugated Cellulose HME paper</i></p> <p>Frame/Housing Polymer: <i>Transparent Green Tinted Polypropylene (PP)</i></p> <p>Colour: <i>Transparent Green</i></p> <p>Mesh: <i>Clear Polypropylene</i></p> <p>Regulatory Documentation Required:</p> <ul style="list-style-type: none"> - Biocompatibility according ISO 10993-1 - ROHS - BSE/TSE - DEHP plasticizer Free and latex free - Aging - REACH

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	- Conflict minerals
PRODUCT CHARACTERISTICS	<p>Appearance/Visual As shown on drawing.</p> <p>Physical/Mechanical Approx. dimensions: Ø68.5mm x 87.5mm height. Weight: 34gm (approx.). Interfaces (ex: Input / Output connectors): 22mm Male/15mm Female and angled 22mm Female/15mm Male ISO Connectors and Ø4.3mm ISO Luer Port. Storage temperature Range: 5 °C to 40 °C Bi Directional Filter – Corrugated HME paper Patient Side.</p> <p>Biological Pyrogenicity: <0.3 Eu/ml Biocompatibility to ISO10993 Category – Surface device Contact - Skin Contact Duration - <24hrs</p> <p>Functional Air Flow Rate: 30l/min, 60l/min, 90l/min.</p> <p>Pressure Drop: Flow Resistance @ 30L/min in accordance with EN ISO 9360-1: Max.31Pa Flow Resistance @ 60L/min in accordance with EN ISO 9360-1: Max.83Pa Flow Resistance @ 90L/min in accordance with EN ISO 9360-1: Max.173Pa (REP 1865/19 with 10% Factor of safety added)</p> <p>Internal Volume: 65ml (approx.)</p> <p>Operating Lifetime: Refer to Instructions for Use.</p> <p>Shelf Lifetime: 5 years from the date of manufacture.</p> <p>Moisture Output @ 500ml Tidal Volume in accordance with EN ISO 9360-1: Min. 30.5mg/l (REP 1866/19 with -0.5ml Factor of safety)</p> <p>Moisture Loss @ 500ml Tidal Volume in accordance with EN ISO 9360-1: Max. 11.4mg/l (REP 1866/19 with +0.5ml Factor of safety)</p> <p>Gas leakage in accordance with EN9360: Max. 0.0 ml/min (REP:1897/19)</p> <p>Cleanliness Device assembled within Class 8 Cleanroom.</p> <p>Testing Leak test at 3PSI.</p>
INSTRUCTIONS / WARNINGS	Multi-language IFU available.

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PRODUCT SHELF LIFE	<p>5 years from the date of manufacture.</p> <p><i>Expiration date and date of manufacture are detailed on the product.</i></p>
STERILIZATION	<p>Sterile version of product available (Ethylene oxide - Max 55°C).</p>
APPLICABLE STANDARDS AND REGULATIONS	<p>Product Certification required:</p> <ul style="list-style-type: none"> - CE mark - FDA <p>Applicable Standards and Technical Regulations:</p> <p><i>Biological evaluation of Medical Devices - Part 1: Evaluation and Testing - ISO 10993-1</i></p> <p><i>Medical devices- Application of risk management to medical devices - BS EN ISO 14971</i></p> <p><i>Medical devices – symbols to be used with medical device labels, labelling and information to be supplied - Part1: General requirements - ISO 15223-1</i></p> <p><i>Breathing system filters for anaesthetic and respiratory use — Part 1: Salt test method to assess filtration performance. – ISO 23328-1</i></p> <p><i>Respiratory protective devices - Method for test - Part 7: Determination of particle filter penetration – BS EN 13274-7</i></p> <p><i>Sterilization of health care products – Ethylene oxide sterilization – ISO 11135-1</i></p> <p><i>Sterilization of medical devices – Microbiological Methods – Part 1: Estimation of population of Microorganisms on products – ISO 11737-1</i></p> <p><i>Anaesthetic and respiratory equipment — Heat and moisture exchangers (HMEs) for humidifying respired gases in humans —Part 1: HMEs for use with minimum tidal volumes of 250 ml – ISO 9360-1</i></p>
PACKAGING AND LABELING	<p>Number of pcs per bag is determined by the Sales order.</p> <p>The first bar-code label is outside the bags.</p> <p>The second bar-code label is stuck outside the box.</p> <p>Each bag is labelled with the following traceability information:</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>Different lots in one box are separately closed and separately labelled.</p> <p>Bulk products will be packaged in double PE bags.</p>
CERTIFICATE OF COMPLIANCE	<p>With each shipment, GVS UK Customer Service will send the CofC to the Customer, based on the lot numbers and date of manufacture.</p> <p>Conformity declaration is printed on every invoice and Certificate is according to UNI EN 10204 type 2.1.</p> <p><i>The Quality management system is in compliance with ISO 13485.</i></p>
ACCEPTABLE QUALITY LEVEL	<p>AQL: with sampling Plan: 0.65 AQL to ISO 2859-1</p>

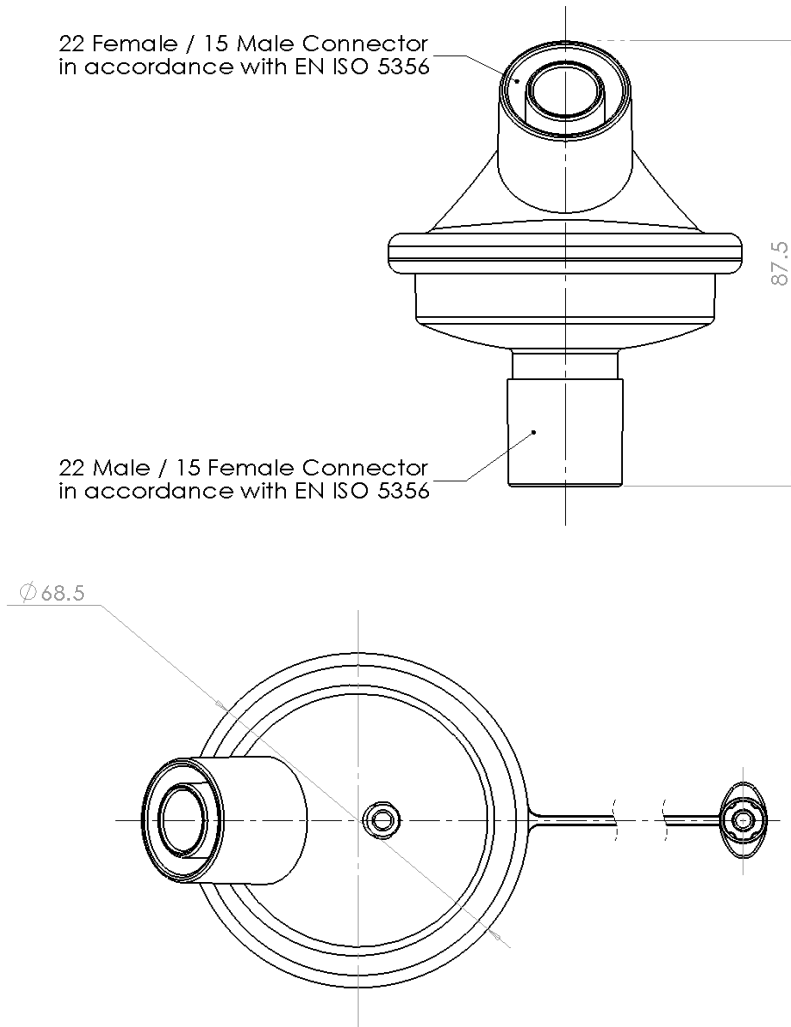
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DRAWING

The attached drawing is part of this material specification and must not be duplicated or made accessible to a third party without prior written permission from GVS Filter Technology UK Ltd.

Approximate dimensions for reference only



VISUAL REQUIREMENTS

Visual acceptance requirements apply when inspected under the conditions below:

Magnification: Unaided eye at a distance of approximately 35-40cm.
Illumination: Lighting level must be reasonable for visual detection i.e. 1000Lux
Timings: Maximum inspection period per item 25s
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: <i>Product characteristic which can affect safety or compliance with regulations, fit, function, performance or subsequent processing of product.</i>			
	Special Characteristic # 01: <i>Flow 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.</i> Special Characteristic # 02: <i>Moisture Output @ 500ml Tidal Volume in accordance with EN ISO 9360-1, Moisture Loss @ 500ml Tidal Volume in accordance with EN ISO 9360-1.</i> Special Characteristic # 03: <i>Conical connectors compliant in accordance with EN ISO 5356.</i> Special Characteristic # 04: <i>Gas Leakage compliant in accordance with EN9360.</i>			
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 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.