

Product P/N	4222/01DDK	
		Mod. 984A
Description	Eco Slimline + Tube + Connectors	Rev. 06

4222/01DDK

Eco Slimline + Tube + Connectors



PRODUCT DESCRIPTION	Inlet/Outlet Connectors of 4222/01: 22mm Male/15mm Female – 22mm Female/15mm Male ISO and Ø4.3mm ISO Luer Port. Approx. dimensions: 68.5mm diameter x 67.1mm height. Weight: 25g (approx.). Bidirectional Filter. Inlet/Outlet Connectors of DDK (A620/60/61) = catheter mount: - connector ISO 22mm Male / 15mm Female; - connector ISO 22mm Male / 22mm Barbed; - collapsible tube with connectors 15.25mm and 22.25mm.
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	Filters protect the patient's airways effectively from exogenous microbial loads, thus reducing the risk of extrinsic colonisation and infection. Used to help reduce cross contamination between patient and machine. 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 5 Annex VIII MDR 2017/745
MATERIALS	Filter media: Electrostatic Blended Synthetic Fiber Frame/Housing Polymer: 4222/01: Transparent Clear Polypropylene (PP) DDK (A620/60/61) = catheter mount: Clear Styrene - Butadiene Copolymer (SBC) and Clear Polypropylene (PP). Colour: Transparent White Regulatory Documentation Required: - Biocompatibility according ISO 10993-1 - ROHS



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	 BSE/TSE DEHP plasticizer Free and latex free Aging REACH Conflict minerals 	
PRODUCT CHARACTERISTICS	Appearance/Visual As shown on drawing.	
	Physical/Mechanical Approx. Dimensions of 4222/01: 68.5mm diameter x 67.1mm height. Weight: 25g (approx.).	
	Interfaces (ex: Input / Output connectors): 4222/01: 22mm Male/15mm Female – 22mm Female/15mm Male ISO and Ø4 Port.	4.3mm ISO Luer
	Inlet Outlet Connectors of DDK (A620/60/61) = catheter mount: - connector ISO 22mm Male / 15mm Female; - connector ISO 22mm Male / 22mm Barbed; - collapsible tube with connectors 15.25mm and 22.25mm.	
	Operating temperature Range: N/A Storage temperature Range: 5 °C to 40 °C Bidirectional Filter.	
	Biological Pyrogenicity: <0.3 EU/ml Biocompatibility to ISO10993 Category – Surface device Contact – Skin Contact Duration - <24hrs	
	For kit performance characteristics for 4222/01DDK – Please refer to 4222/01 T Functional Air Flow Rate: <i>30l/min, 60l/min, 90l/min.</i>	echnical data sheet.
	Filtration Efficiency: NaCl Filter Efficiency @ 30L/min using TSI 8130: Min. 98.5% (Ref.4222/700 REP: 0840/16 with factor of safety applied to Min.)	
	Pressure Drop: Flow Resistance @ 30l/min in accordance with EN ISO 9360-1: Max.99Pa Flow Resistance @ 60l/min in accordance with EN ISO 9360-1: Max.231Pa Flow Resistance @ 90l/min in accordance with EN ISO 9360-1: Max.363Pa (REP:0827/16 with 10% of safety margin added to Max.)	
	Internal Volume: 29ml (approx.)	
	Operating Lifetime: Refer to Instructions for Use.	



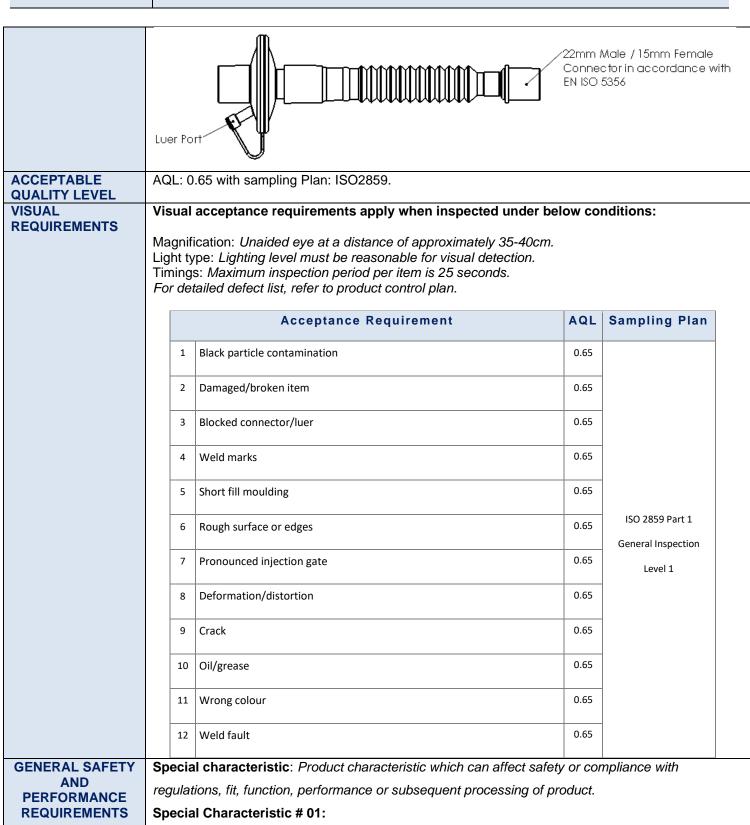
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	Shelf Lifetime: 5 years from the date of manufacture.	
	Bacterial Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.999% (Staphylococcus aureus @ 30L /minute) REP: EXT439447.	
	Viral Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.9 % (Bacteriophage @ 30L/ minute) REP: EXT439446.	
	Gas leakage in accordance with EN9360: Max.0.0 ml/min (REP:1524/18)	
	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 10	993-1.
	Respiratory protective devices - Method for test - Part 7: Determination of particle BS EN 13274-7.	filter penetration -
	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 insupplied - Part1: General requirements - ISO 15223-1.	formation to be
	Breathing system filters for anaesthetic and respiratory use — Part 1: Salt test me filtration performance - ISO 23328-1.	thod to assess
	Anaesthetic and respiratory equipment – conical connectors – part 1: Cones and 5 5356-1.	sockets – ISO
	Sterilization of health care products – Ethylene oxide sterilization – ISO 11135-1.	
	Sterilization of medical devices – Microbiological Methods – Part 1: Estimation of microorganisms on products – ISO 11737-1.	population of
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.	



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	Finds have a labelle desitts the fallencing transpolities informations
	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 COMPLIANCE	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.
DRAWING	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
	22 Female / 15 Male Connector in accordance with EN ISO 5356
	22 Male / 15 Female Connector in accordance with EN ISO 5356
	Φ 68.5



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PRODUCT SPECIFICATION

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	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.	

Special Characteristic # 02: NaCl Filter Efficiency @ 30L/min using TSI 8130 in accordance with EN 13274-7.

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

Special Characteristic # 04: Conical connectors compliant in accordance with EN5356. **Special Characteristic # 05:** Gas Leakage compliant in accordance with EN9360.

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)
03/08/2021	4	Functional characteristics updated.	Kinga Gawdzik – Engineering Support Technician	Andrew Pearce – Quality Manager



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CUSTOMER APPROVAL:		
We accept this	s material specification as a part of the agreed terms of delivery.	
Company Nam	ne:	
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.