

Product P/N	2800/01	
		Mod. 984A
Description	Spiroguard	Rev. 06

2800/01

Spiroguard



PRODUCT DESCRIPTION	Inlet Outlet Connectors: OD 34.0mm ID 30.1mm - Machine Side; OD 29.22mm ID 26.14mm- Patient Side. Approx. Dimensions: 96.7mm diameter x 79mm height. Weight: 37g (approx.). Bidirectional Filter.
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	Spirometer pre filters are used in pulmonary function tests for trapping bacteria and viruses and other particulates, reducing the risk of cross-contamination between the patient and the machine.
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: White High Impact Polystyrene (HIPS) Colour: White Regulatory Documentation Required: - Biocompatibility according ISO 10993-1 - ROHS - BSE/TSE - DEHP plasticizer Free and latex free - Aging - REACH - Conflict minerals
PRODUCT CHARACTERISTICS	Appearance/Visual As shown on drawing.



Product P/N	2800/01 Mod. 984
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	Physical/Mechanical
	Approx. Dimensions: 96.7mm diameter x 79mm height.
	Weight: 37g (approx.). Interfaces (ex: Input / Output connectors): OD 34.0mm ID 30.1mm - Machine Side;
	OD 29.22mm ID 26.14mm- Patient Side.
	Operating temperature Range: N/A
	Storage temperature Range: 5 °C to 40 °C Bidirectional Filter, Male connector – Patient Side.
	Biological
	Pyrogenicity: <0.3 EU/ml Biocompatibility to ISO10993
	Category – Surface device
	Contact – Oral cavity Contact Duration - <24hrs
	Functional
	Air Flow Rate: 30I/min, 60I/min, 90I/min.
	Filtration Efficiency: Filter Efficiency @ 30L/min using TSI 8130: Min. 99% (REP: 1254/17 with safety margin)
	Pressure Drop: Flow Resistance @ 30l/min in accordance with EN ISO 9360-1: Max. 36.3Pa Flow Resistance @ 60l/min in accordance with EN ISO 9360-1: Max. 70.4Pa Flow Resistance @ 90l/min in accordance with EN ISO 9360-1: Max. 118.8Pa (REP:1292/17 with 10% safety factor added to Max.)
	Internal Volume: 72ml (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) REP: EXT607770.
	Viral Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.999% Bacteriophage @ 30L/ minute REP: EXT620332.
	Cleanliness
	Device assembled within Class 8 Cleanroom.
	Testing
	Torque test @ 10Nm. (REP: 1343/17)
NSTRUCTIONS / WARNINGS	Multi-language IFU available.
PRODUCT SHELF	5 years from the date of manufacture.
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Expiration date and date of manufacture are detailed on the product labelling.



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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 supplied - Part1: General requirements - ISO 15223-1.		
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: V Quantity V Product description V Product Date V Lot Number (OL and 5-digit batch number to trace back to raw materials used) V 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. The Quality management system is in compliance with ISO 9001, ISO 13485.		
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.		
	Approximate dimensions for reference only		



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ACCEPTABLE	AQI · 0	.65 with sampling Plan: ISO2859.			
UALITY LEVEL		. •			
/ISUAL REQUIREMENTS		acceptance requirements apply when inspected under ication: Unaided eye at a distance of approximately 35-40c		nditions:	
	Light ty Timing:	rpe: Lighting level must be reasonable for visual detection. s: Maximum inspection period per item is 25 seconds. tailed defect list, refer to product control plan.			
		Acceptance Requirement	AQL	Sampling Plan	
	1	Black particle contamination	0.65		
		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	regulat	In the characteristic: Product characteristic which can affect sations, fit, function, performance or subsequent processing o	-	mpliance with	
PERFORMANCE REQUIREMENTS	-	Il Characteristic # 01:			
	Flow R	esistance @ 30L/min in accordance with EN ISO 9360-1			
	Flow R	esistance @ 60L/min in accordance with EN ISO 9360-1			
	Flow R	esistance @ 90L/min in accordance with EN ISO 9360-1			
	Specia 13274-	Il Characteristic # 02: Filter Efficiency @ 30L/min using T.7.	SI 8130 in	accordance with I	
		Il Characteristic # 03: Bacterial Filtration Efficiency in acc	ordance w	ith ASTM F2101-0	



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Viral Filtration Efficiency in accordance with ASTM F2101-07

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	ISSUED AND CONTROLLED BY:	APPROVED BY:
		CHANGE	(NAME/FUNCTION/SIGNATURE)	(NAME/FUNCTION/SIGNATURE)
24/06/2021	3	Biological characteristics amended.	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.