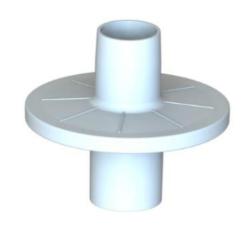


Product P/N	2800/22	
		Mod. 984A
Description	Spiroguard	Rev. 06

2800/22

Spiroguard



PRODUCT DESCRIPTION	Inlet/Outlet Connectors: - OD34mm ID29.25mm - Machine Side; - OD31.2mm ID26.09mm - Patient Side. Approx. dimensions: 97mm diameter x 85mm height. Weight: 37gm (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. Filters can be supplied with accessories, such as nose clip, mouthpiece and bite grip.
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 Polypropylene Homopolymer (PP) Colour: White. Regulatory Documentation Required: - Biocompatibility according ISO 10993-1 - ROHS - BSE/TSE - DEHP plasticizer Free and latex free - Aging - REACH - Conflict minerals



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PRODUCT CHARACTERISTICS

Appearance/Visual

As shown on drawing.

Physical/Mechanical

Approx. dimensions: 97mm diameter x 85mm height.

Weight: 37gm (approx.).

Interfaces (ex: Input / Output connectors): - OD34mm ID29.25mm - Machine Side;

- OD31.2mm ID26.09mm - 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: 301/min, 601/min, 901/min.

Filtration Efficiency: Filter Efficiency @ 30L/min using TSI 8130: Min. 99% (REP: 1433/17 with factor of safety applied to Min.)

Pressure Drop:

Flow Resistance @ 30l/min in accordance with EN ISO 9360-1: Max.35.2Pa Flow Resistance @ 60l/min in accordance with EN ISO 9360-1: Max.75.9Pa Flow Resistance @ 90l/min in accordance with EN ISO 9360-1: Max.132Pa (REP:1255/17 with 10% of safety margin added to Max.)

Internal Volume: 74ml (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

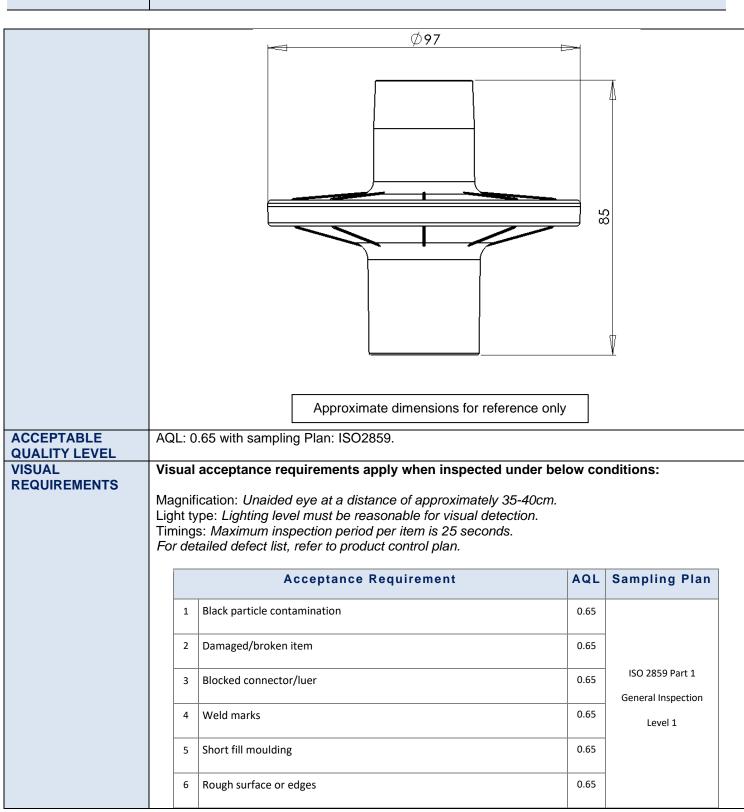
Torque test @ 10Nm. (REP: 1348/17)



Product P/N	2800/22 Mod. 984A	
Description	Spiroguard Rev. 06	
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	N/A	
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.	
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	
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.	



Product P/N	2800/22	** 1.0044
Description	Spiroguard	Mod. 984A Rev. 06
Description	Spiroguard	Kev. 00





Product P/N	2800/22 Mod. 984A		
Description	Spiroguard	Rev. 06	
	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: Product characteristic which can affect safety or compliance with regulations, fit, function, performance or subsequent processing of product. Special Characteristic # 01:		
REGUITEMENTO	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: Filter Efficiency @ 30L/min using TSI 13274-7.	8130 in accordance with EN	
	Special Characteristic # 03: Bacterial Filtration Efficiency in accord	lance with ASTM F2101-07	
	Viral Filtration Efficiency in accordance with ASTM F2101-07		
-	ication describes the properties of product above indicated. This cerial description, drawing references, defect specification, biologic		

REVISIONS AND APPROVALS:

DATE	REV.	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (NAME/FUNCTION/SIGNATURE)	APPROVED BY: (NAME/FUNCTION/SIGNATURE)
11/08/2021	3	Internal volume updated.	Kinga Gawdzik – Engineering Support Technician	Andrew Pearce – Quality Manager



Product P/N	2800/22	Mod. 984A
Description	Spiroguard	Rev. 06

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.