

Product P/N	2800/728	
		Mod. 984A
Description	Compact Electrostatic Spirometry Filter	Rev. 06

# 2800/728 Compact Electrostatic Spirometry Filter



PRODUCT DESCRIPTION	Inlet/Outlet Connectors: - OD 34mm / ID 29.25mm - Machine Side; - Integral Mouthpiece - Patient Side. Approx. dimensions: 68.5mm diameter x 92.6mm 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.
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: 68.5mm diameter x 92.6mm height.

Weight: 37gm (approx.).

Interfaces (ex: Input / Output connectors): - OD 34mm / ID 29.25mm - Machine Side;

- Integral Mouthpiece - Patient Side.

Operating temperature Range: N/A Storage temperature Range: 5 °C to 40 °C

Bidirectional Filter, Integral Mouthpiece - 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. 98% (REP: 1559/18 with factor of safety applied to Min.)

#### Pressure Drop:

Flow Resistance @ 30l/min in accordance with EN ISO 9360-1: Max.79Pa Flow Resistance @ 60l/min in accordance with EN ISO 9360-1: Max.160Pa Flow Resistance @ 90l/min in accordance with EN ISO 9360-1: Max.259Pa

(REP: 1577/18 with 10% added safety margin)

Internal Volume: 49ml (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. 99.99 % (Staphylococcus aureus @ 30L /minute) REP: EXT.1075065-S01.

Viral Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.9% (Bacteriophage @ 30L/minute) REP: EXT.1118583-S01.

#### **Cleanliness**

Device assembled within Class 8 Cleanroom.

#### **Testing**

Torque test @ 10Nm. (REP: 1492/18)

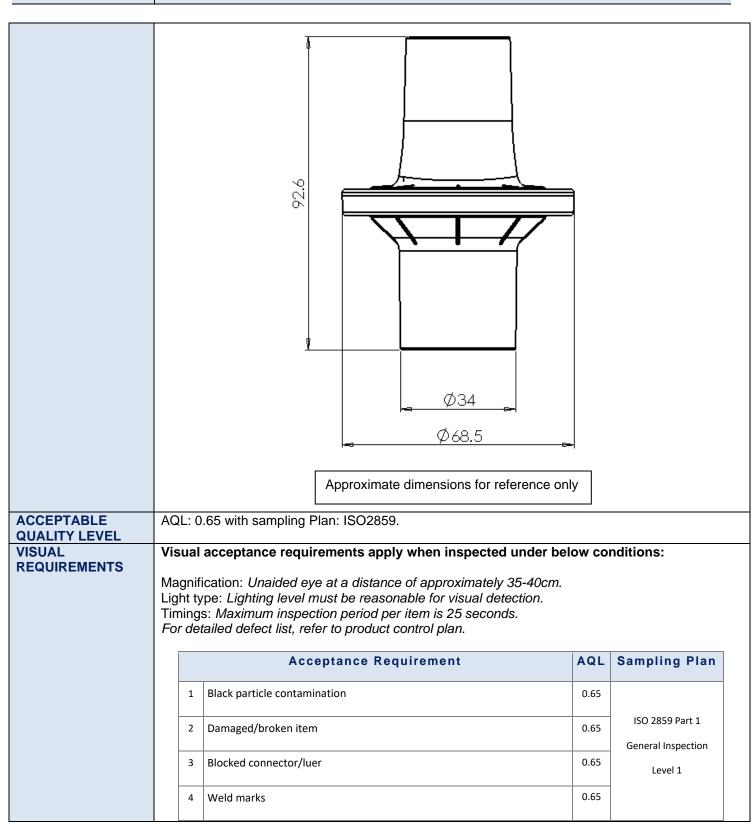


# PRODUCT SPECIFICATION

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Description	Compact Electrostatic Spirometry Filter Rev. 06		
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INSTRUCTIONS / WARNINGS	Multi-language IFU available.		
PRODUCT SHELF LIFE	5 years from the date of manufacture.		
STERILIZATION	Expiration date and date of manufacture are detailed on the product labelling.  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.	ion	
	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.	е	
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  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 a	the	
COMPLIANCE	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 Lt	<del>)</del>	



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Product P/N	2800/728 Mod. 984A			
Description	Compact	Rev. 06		
	5 Sho	ort fill moulding	0.65	
	6 Rou	ugh surface or edges	0.65	
	7 Proi	nounced injection gate	0.65	
	8 Defe	Formation/distortion	0.65	
	9 Crad	ck	0.65	
	10 Oil/	/grease	0.65	
	11 Wro	ong colour	0.65	
	12 Wel	ld fault	0.65	
GENERAL SAFETY AND PERFORMANCE	Special characteristic: Product characteristic which can affect safety or compliance with regulations, fit, function, performance or subsequent processing of product.  Special Characteristic # 01:			
REQUIREMENTS	Flow Resistance @ 30L/min in accordance with EN ISO 9360-1			
	Flow Resis	stance @ 60L/min in accordance with EN ISO 9360-1		
	Flow Resis	stance @ 90L/min in accordance with EN ISO 9360-1		
	<b>Special Ch</b> 13274-7.	haracteristic # 02: Filter Efficiency @ 30L/min using TSI 8	3130 in accordance with EN	
	Special Ch	haracteristic # 03: Bacterial Filtration Efficiency in accord	ance with ASTM F2101-07	
	Viral Filtrat	tion Efficiency in accordance with ASTM F2101-07		
		ribes the properties of product above indicated. This dition, drawing references, defect specification, biologic		

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

ĺ	DATE	REV.	REASON	ISSUED AND CONTROLLED BY:	APPROVED BY:
			FOR	(NAME/FUNCTION/SIGNATURE)	(NAME/FUNCTION/SIGNATURE)
			CHANGE		
ĺ	11/08/2021	3	Internal	Kinga Gawdzik – Engineering Support	Andrew Pearce – Quality Manager
			volume	Technician	
			amended.		A.
				Causa	Modern
				Cau	Lelle May



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CUSTOMER APPROVAL:			
We accept this material specification as a part of the agreed terms of delivery.			
Company Name:			
Approved by: NA	pproved by:NAME/FUNCTION		
SI	GNATURE		
DA	ATE		
CC	OMPANY 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.