

| Product P/N | 4100/25 | | |
|-------------|----------------------------|----------|--|
| | | Mod. 984 | |
| Description | Oxygen Concentrator Filter | Rev. 05 | |
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4100/25

Oxygen Concentrator Filter



| PRODUCT | Inlet / Outlet Connectors: 22mm Male/18.8mm i/d. |
|----------------|--|
| DESCRIPTION | Approx. Dimensions: 115.2mm length x 60.9mm width x 62.4mm height |
| | Weight: 62gm (approx.) |
| | Unidirectional Filter |
| | Similar existing product: ITI N/A ITI Specify: 4100 series filters. |
| MANUFACTURER | GVS Filter Technology UK |
| NAME | 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 / | Pre-filter for use within oxygen concentrator machines, to filter the air entering the device. |
| APPLICATION | Pre-inter for use within oxygen concentrator machines, to filter the air entering the device. |
| CLASS OF THE | Disposable medical device - Class 1 |
| PRODUCT | Annex V 93/42/EEC |
| | Rule 1 Annex VIII MDR 2017/745 |
| MATERIALS | Filter media: |
| | I□I N/A I□I Specify: Glass Microfibre Media and White Polyurethane foam |
| | Frame/Housing Polymer: |
| | I N/A I Specify: Bronze Tinted Acrylonitryle Butadiene Styrene (ABS) |
| | Colour: |
| | I⊓ N/A I¬ Specify: Brown |
| | Other insert(s): |
| | I⊓ N/A I¬ Specify: Adhesive: Polyolefin Hot Melt Adhesive |
| | Regulatory Documentation Required: |
| | I♥ Biocompatibility according ISO 10993-1 |
| | ITI IMDS |
| | IFI ROHS |
| | IFI BSE/TSE |



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| | I♥I DEHP plasticizer Free and latex free I♥I Aging I♥I REACH I♥I Conflict minerals |
|--|--|
| | Other: |
| PRODUCT CHARACTERISTICS | Appearance/Visual Aesthetic part: Yes; No Finishing: Trim finishing mirror polished surfaces Thin roughness surfaces Gross roughness surface As shown on drawing |
| | Presence of graphics/Artwork: I No; Specify: Flash bears admitted: I N/A Specify: Refer to the control plan. |
| | Injection gate vestige: Injection gate vestige: Injection gate vestige: Refer to the control plan. Black spots admitted (size/area): |
| | If N/A I Specify: Refer to the control plan. Infiltration into insert admitted: IN/A I Specify: Other: IVI N/A I Specify: |
| | Physical/Mechanical Dimensions (Approx.): 115.2mm length x 60.9mm width x 62.4mm height Weight: 62gm (approx.) Interfaces (ex: Input / Output connectors): IT I N/A IT Specify: 22mm Male/18.8mm i/d |
| The area of the ar | Operating temperature Range: N/A Storage temperature Range: 5 °C to 40 °C Other: I N/A I Specify: Unidirectional Filter |
| | Chemical Compatibility to solvents: IPI N/A IPI Specify: Resistance to weathering: IPI N/A IPI Specify: Other: |
| | IFIN/A IFI Specify: |



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Biological Sterility: IVIN/A ITI Specify: Pyrogenicity: MIN/A ITI Specify: Haemolysis: IFI N/A ITI Specify: Toxicity: IVI N/A IVI Specify: Category - Surface device Contact - Intact Skin Contact Duration - <24hr **Functional** Air Flow Rate: ITI N/A ITI Specify: 30l/min, 60l/min, 90l/min Water Break Through Pressure: IFI N/A ITI Specify: Liquid Flow Rate: IFI N/A ITI Specify: **Bubble Point Pressure:** IPI N/A ITI Specify: Filtration Efficiency: ITI N/A ITI Specify: Filter Efficiency @ 30L/min using TSI 8130: Min. 99.8% (REP 1921/19 with safety factor added) Pressure Drop: ITI N/A ITI Specify: Flow Resistance @ 30L/min in accordance with EN ISO 9360-1: Max. 7.3Pa Flow Resistance @ 60L/min in accordance with EN ISO 9360-1: Max. 20.9Pa Flow Resistance @ 90L/min in accordance with EN ISO 9360-1: Max. 40Pa (REP 1920/19 with 10% safety factor added) Internal Volume: N/A | Specify: Operating Lifetime: N/A I Specify: Refer to Instructions for Use. Shelf Lifetime: IN/A IN Specify: 5 years from the date of manufacture. Other: IN/A IN Specify: Bacterial Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.9% (Staphylococcus aureus @ 30L /minute) Lab 846022-S01 Viral Filtration Efficiency in accordance with ASTM F2101-07: Min. 99.999%

(Bacteriophage @ 30L/ minute) Lab 846021-S01



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| | Cleanliness Part cleanliness: III N/A III Specify: Clean-room Production required: III N/A III Specify: Class 8. |
|--|---|
| | Testing Insert embedding Test: I▼I N/A I□I Specify: Burst test: I▼I N/A I□I Specify: Leakage: I▼I N/A I□I Specify: Other: I▼I N/A I□I Specify: |
| INSTRUCTIONS / WARNINGS | IFU |
| PRODUCT SHELF LIFE | 5 years from the date of manufacture. Expiration date and date of manufacture are detailed on the product labelling. |
| STERILIZATION | IFI Not required; IFI EtO; IFIGamma; IFI Beta; IFISteam; IFI e-beam |
| APPLICABLE STANDARDS AND REGULATIONS | Product Certification required: IFI CE mark IFI FDA IFI Canadian Health IFI Brazil ANVISA IFI Argentina ANMAT IFI NIOSH IFI Japan IFI Korea IFI China IFI Russia IFI Other (Specify): |
| | 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. |
| | Customer Specific Requirements: No |



| 4100/25 | Mod 004 |
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| | Is the Product a safety product? □ Yes □ No Environment Impact: Have atmosphere emissions, liquid effluents, underground leachables been considered? □ Yes □ No Energy released (heat, vibration): □ Yes □ No | |
|--|---|--|
| INTELECTUAL | □ Yes □ No | |
| INTELECTUAL PROPERTY AND FUNDING | Intellectual Property: Patents that have been granted or applied for that must be considered □ N/A □ Specify: Grants: Is the project (partially) funded by public institutions? □ N/A □ Specify: | |
| PACKAGING AND LABELING | Packaging II Primary: Refer to individual Part Numbers. II Secondary: Refer to individual Part Numbers. Labelling: II Standard; II Customer specific: Primary packaging label | |
| | Item Description | |
| | REF XXXX/XXABCD001/0001 LOT OL-XXXX/XXXXXX/21 PHT PHT FREE YYYY-MM-DD | |
| | TYYY-WW-DD -40% -40% -40% -40% -40% -40% -40% -40 | |
| | GVS Filter Technology UK Ltd Morecambe, Lancashire, UK LA3 3EN www.gvs.com EC REP GVS 5 p.A www.gvs.com Re v 05A | |



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UDI:

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



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| 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 1020-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. | |
| | | |
| TO THE STATE OF TH | 115.2 | |
| ACCEPTABLE QUALITY LEVEL | 92.4 | |
| ACCEPTABLE QUALITY LEVEL VISUAL | IVI AQL: with sampling Plan: 0.65 AQL to ISO 2859-1 IFI PPM: IFI Other: Visual acceptance requirements apply when inspected under below conditions: Magnification: Unaided eye at a distance of approximately 35-40cm. Light type: Lighting level must be reasonable for visual detection. Timings: Maximum inspection period per item is 25 seconds. | |



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| | 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 | ISO 2859 Part 1 Genera Inspection 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 | |

PERFORMANCE REQUIREMENTS regulations, fit, function, performance or subsequent processing of product.

Special Characteristic # 01:

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 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.

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) |
|------------|------|----------------------------------|---|---|
| 28/01/2020 | 1 | Updated to new Mod.984 Rev.05 | Kinga Gawdzik – Engineering Support Technician | Andrew Pearce – Quality Manager |
| | | | Canoli | Melle |



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| CUSTOMER APPROVAL: | | | | |
|--------------------|--|--|--|--|
| We accept this | We accept this material specification as a part of the agreed terms of delivery. | | | |
| Company Nan | 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.