

PRODUCT SPECIFICATION

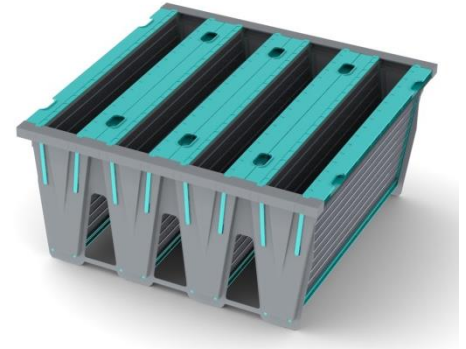
Product PN 80.021.0001.00.AA, 80.021.0002.00.AA, 80.021.0003.00.AA

Mod. 984

Description Modular HVAC Cartridge Filter

Rev. 04

Bacticell F7 ECO Range Modular HVAC Cartridge Filter



PRODUCT DESCRIPTION	<p>Detailed description of the product: HVAC Fine Filter F7 ECO</p> <p>Similar existing product: Existing Bacticell and Rigid Pack Filter</p>																																						
MANUFACTURER NAME	<p>GVS Filter Technology UK NFC House Vickers Industrial Estate Mellishaw Lane, Morecambe Lancashire LA3 3EN - United Kingdom</p> <p>Information Tel. +44 (0) 1524 847600 Fax: +44 (0) 1524 847800 e-mail: gvsuk@gvs.com</p>																																						
INTENDED USE / APPLICATION	<p>F7 Cartridge Filter for use in HVAC applications.</p>																																						
MATERIALS	<table> <tr> <td>Filter media:</td><td>F7 Glass Microfibre Media</td></tr> <tr> <td>Frame/Housing Polymer:</td><td>Flame Retardant Plastic</td></tr> <tr> <td>Color:</td><td>Filter Frame –100% Cyan Blue and Side Plates - Dark Grey</td></tr> <tr> <td>Other:</td><td>PU 100% white and Black Neoprene O-Ring</td></tr> </table>	Filter media:	F7 Glass Microfibre Media	Frame/Housing Polymer:	Flame Retardant Plastic	Color:	Filter Frame –100% Cyan Blue and Side Plates - Dark Grey	Other:	PU 100% white and Black Neoprene O-Ring																														
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PRODUCT CHARACTERISTICS	<table> <tr> <td>Dimension 80.021.0001.00.AA:</td><td>592 x 592 x292mm</td></tr> <tr> <td>Dimension 80.021.0002.00.AA:</td><td>492 x 592 x292mm</td></tr> <tr> <td>Dimension 80.021.0003.00.AA:</td><td>287 x 287 x292mm</td></tr> <tr> <td>Weight 80.021.0001.00.AA:</td><td>Approximately 7kg</td></tr> <tr> <td>Weight 80.021.0002.00.AA:</td><td>Approximately 5kg</td></tr> <tr> <td>Weight 80.021.0003.00.AA:</td><td>Approximately 3kg</td></tr> <tr> <td>Media Area: 80.021.0001.00.AA:</td><td>14.0m²</td></tr> <tr> <td>Media Area: 80.021.0002.00.AA:</td><td>10.5m²</td></tr> <tr> <td>Media Area: 80.021.0003.00.AA:</td><td>7.0m²</td></tr> <tr> <td>Interfaces:</td><td>20 mm Header as standard and 25mm header with O-Ring equipped.</td></tr> <tr> <td>Operating temperature Range:</td><td>0 °C to +70 °C</td></tr> <tr> <td>Storage temperature Range:</td><td>0 °C to +70 °C</td></tr> <tr> <td>Air Flow Rate 80.021.0001.00.AA:</td><td>3400m³/hr (0.44m³/s)</td></tr> <tr> <td>Air Flow Rate 80.021.0002.00.AA :</td><td>2550 m³/hr (0.33m³/s)</td></tr> <tr> <td>Air Flow Rate 80.021.0003.00.AA :</td><td>1700 m³/hr (0.22m³/s)</td></tr> <tr> <td>Filtration Efficiency:</td><td>35% Minimum for 0.4 µm particles (F7 Class)</td></tr> <tr> <td>Filtration Efficiency: 80.021.0001.00.AA:</td><td>ePM1, 55%</td></tr> <tr> <td></td><td>ePM2.5 60%</td></tr> <tr> <td></td><td>ePM10 85%</td></tr> </table>	Dimension 80.021.0001.00.AA:	592 x 592 x292mm	Dimension 80.021.0002.00.AA:	492 x 592 x292mm	Dimension 80.021.0003.00.AA:	287 x 287 x292mm	Weight 80.021.0001.00.AA:	Approximately 7kg	Weight 80.021.0002.00.AA:	Approximately 5kg	Weight 80.021.0003.00.AA:	Approximately 3kg	Media Area: 80.021.0001.00.AA:	14.0m ²	Media Area: 80.021.0002.00.AA:	10.5m ²	Media Area: 80.021.0003.00.AA:	7.0m ²	Interfaces:	20 mm Header as standard and 25mm header with O-Ring equipped.	Operating temperature Range:	0 °C to +70 °C	Storage temperature Range:	0 °C to +70 °C	Air Flow Rate 80.021.0001.00.AA:	3400m ³ /hr (0.44m ³ /s)	Air Flow Rate 80.021.0002.00.AA :	2550 m ³ /hr (0.33m ³ /s)	Air Flow Rate 80.021.0003.00.AA :	1700 m ³ /hr (0.22m ³ /s)	Filtration Efficiency:	35% Minimum for 0.4 µm particles (F7 Class)	Filtration Efficiency: 80.021.0001.00.AA:	ePM1, 55%		ePM2.5 60%		ePM10 85%
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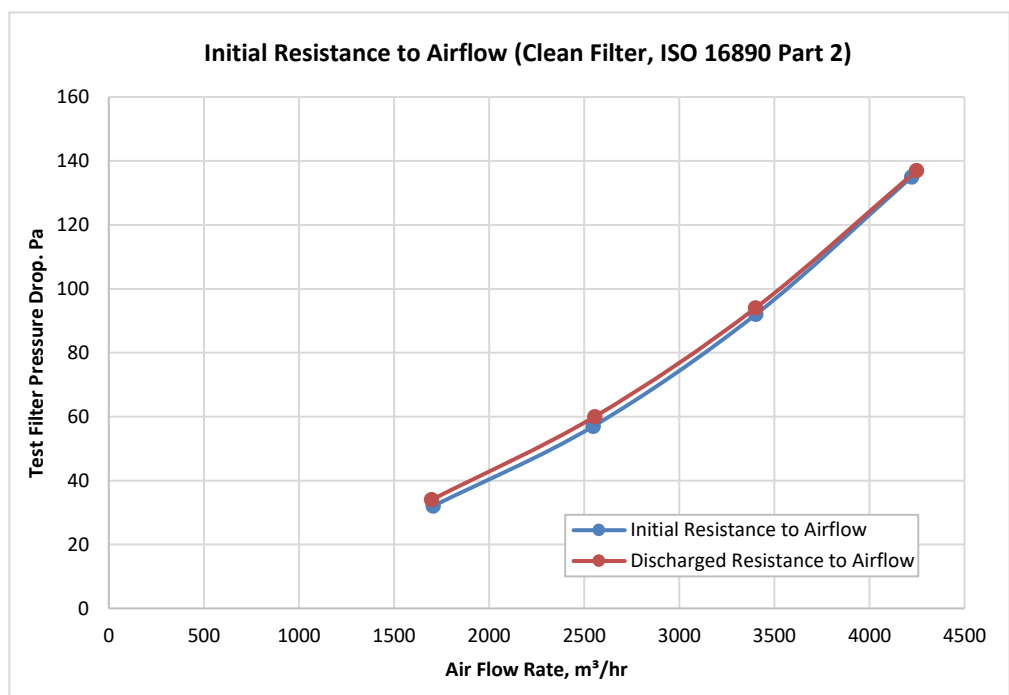
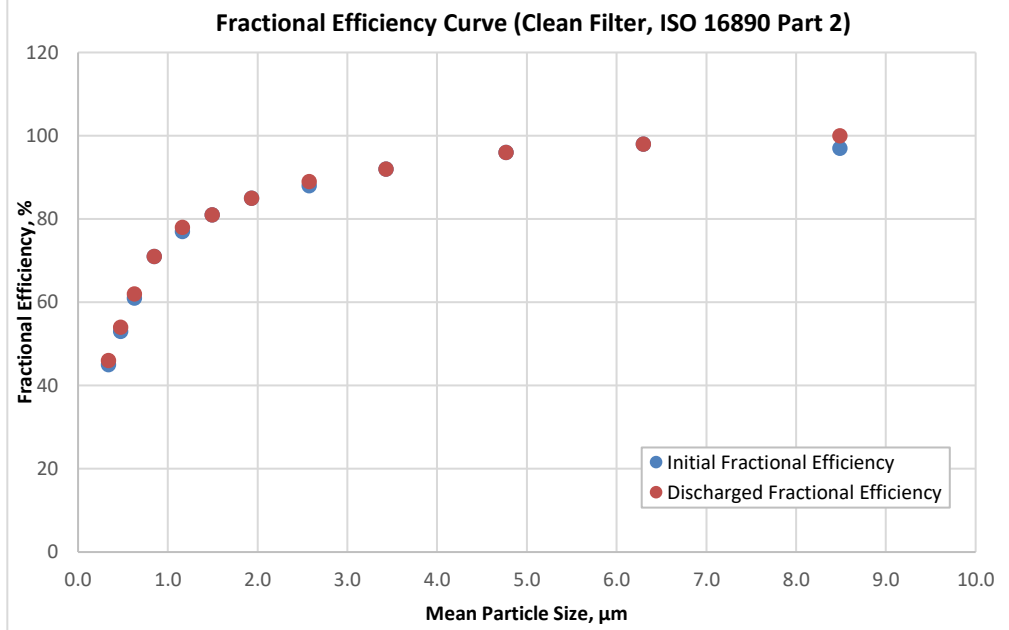
Mod. 984

Description Modular HVAC Cartridge Filter

Rev. 04










Initial Pressure Drop: 80.021.0001.00.AA: 90Pa @ 3400m³/hr (0.44m³/s)
Initial Pressure Drop: 80.021.0002.00.AA: 67.5Pa @ 2550m³/hr (0.33m³/s)
Initial Pressure Drop: 80.021.0003.00.AA: 45Pa @ 1700m³/hr(0.22m³/s)
Final Pressure Drop: 80.021.0001.00.AA: 450Pa @ 3400m³/hr (0.44m³/s)
Final Pressure Drop: 80.021.0002.00.AA: 337Pa @ 2250m³/hr (0.33m³/s)
Final Pressure Drop: 80.021.0003.00.AA: 225Pa @ 1700m³/hr (0.22m³/s)
Operating Lifetime: Suggested change point at 350Pa (Or Max 2 Years)
Shelf Lifetime: Max 3 Years
Fire Rating: BS EN 60695 equivalency test as prescribed by WI449

PRODUCT CHARACTERISTICS CHARTS



PRODUCT SPECIFICATION

Product PN	80.021.0001.00.AA, 80.021.0002.00.AA, 80.021.0003.00.AA	Mod. 984
Description	Modular HVAC Cartridge Filter	Rev. 04

INTELLECTUAL PROPERTY AND FUNDING	Patent applied for.
STANDARDS APPLICABLE AND REGULATIONS	EN779 and EN16890 Eurovent Certified Performance ISO 9001
PACKAGING AND LABELLING	<p>Packaged fully assembled in box.</p> <p>Product label attached to 1 filter panel per product as per below</p> <div> <div> F7 ECO ePM1 55% </div> <div> Rev 01  80.021.0001.00.AA to reorder go to: www.gvs.com  YYYY/MM/DD  OL-XXXX/XXXXX/21 </div> </div> <div> <div> F7 ECO ePM1 55% </div> <div> Rev 01  80.021.0002.00.AA to reorder go to: www.gvs.com  YYYY/MM/DD  OL-XXXX/XXXXX/21 </div> </div> <div> <div> F7 ECO ePM1 55% </div> <div> Rev 01  80.021.0003.00.AA to reorder go to: www.gvs.com  YYYY/MM/DD  OL-XXXX/XXXXX/21 </div> </div> <p>SAP label attached to designated area on box.</p>
CERTIFICATE OF COMPLIANCE	The Quality Management system is in compliance with ISO 9001

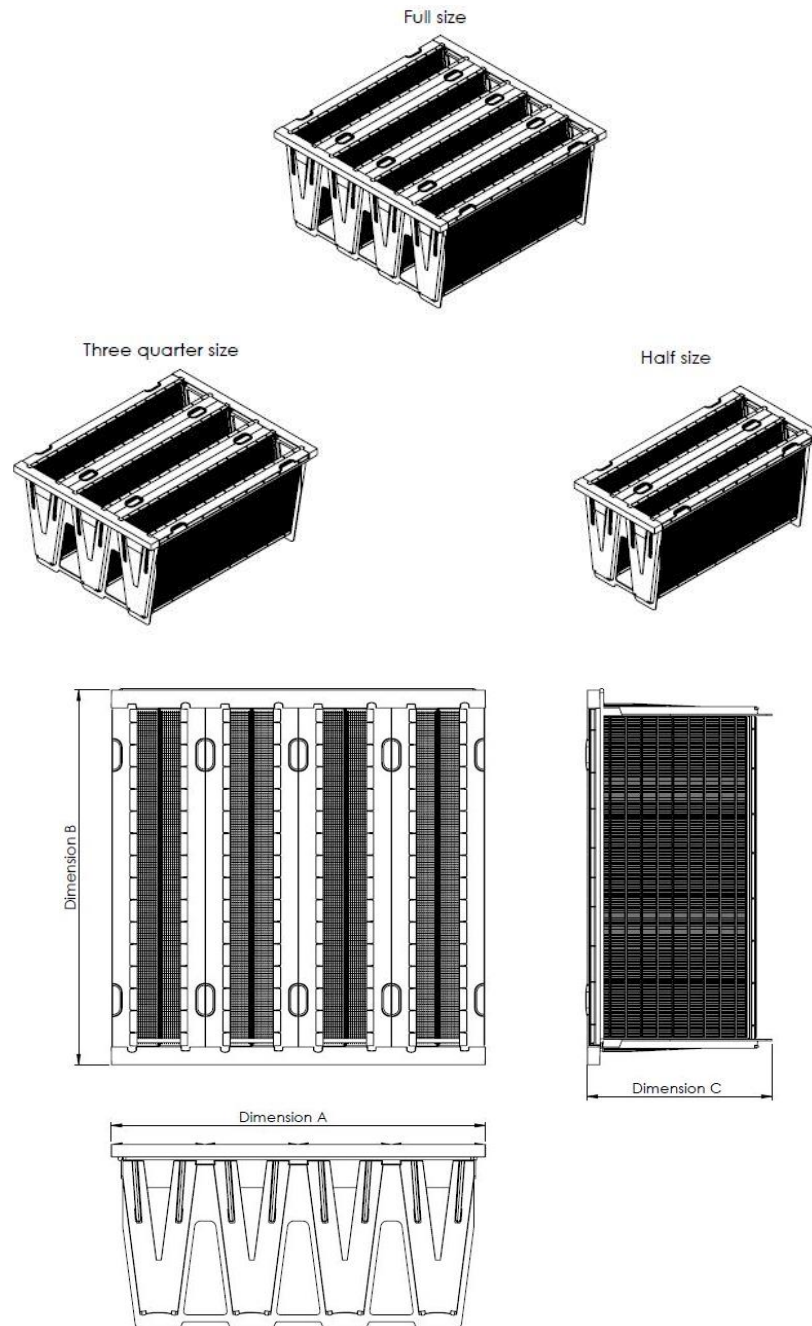
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DRAWING



All dimensions have a tolerance of +/- 0.5mm

Product Code	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)
80.021.0001.00.AA	592	592	292
80.021.0002.00.AA	492	592	292
80.021.0003.00.AA	287	592	292

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ACCEPTABLE QUALITY LEVEL

AQL: 2.5 with sampling plan General Inspection Level 1 (Visual Inspection) and Special Inspection level 3 (Functional Inspection)

VISUAL REQUIREMENTS

Visual acceptance requirements apply when inspected under below conditions:



Magnification: Unaided eye at a distance of approximately 80-100cm.
Illumination: Lighting level must be reasonable for visual detection i.e. 1000Lux
Timings: Maximum inspection period per item 25s

Acceptance Requirement	AQL	Sampling Plan
Damaged/broken item	2.5	ISO 2859 Part 1 General Inspection Level 1
Deformation / Distortion	2.5	
Excessive PU	2.5	
Glue lines fault	2.5	
Hole in mesh/media	2.5	
Holes in pleat pack/seal	2.5	
Oil/ Grease	2.5	
Pleat scratched/scuffed	2.5	
Pleat twisted/deformed	2.5	
Surface damage	2.5	
Torn	2.5	
Damaged parts, deformations / sharp / rough edges.	2.5	
Crack	2.5	
Damaged/broken item	2.5	
Rough surface or edges	2.5	
Scratches presence	2.5	

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 and signature)	APPROVED BY: (name /function and signature)
30/11/2016	0	First Issue	Rob Davis – Design Engineer	Andrew Pearce – Quality
28/09/2017	1	Removal of Product characteristic	 15/10/19	 15/10/19
XX/10/2017	2	Addition of Bacticell half & three-quarter size and addition of Product characteristic.		
06/08/2019	3	Addition of filter label information		
15/10/2019	4	Addition of filter performance charts and ePM figures		