

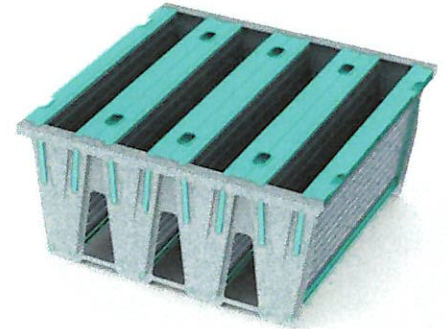
**Product PN** 80.021.0059.00.AA, 80.021.0060.00.AA, 80.021.0061.00.AA

Mod. 984

**Description** Modular HVAC Cartridge Filter

Rev. 01


## Bacticell F9 ECO Range Modular HVAC Cartridge Filter



<b>PRODUCT DESCRIPTION</b>	<p><b>Detailed description of the product:</b> HVAC Fine Filter F9 ECO</p> <p><b>Similar existing product:</b> Existing Bacticell and Rigid Pack Filter</p>	
<b>MANUFACTURER NAME</b>	<p><b>GVS Filter Technology UK</b> NFC House Vickers Industrial Estate Mellishaw Lane, Morecambe Lancashire LA3 3EN - United Kingdom</p> <p><b>Information</b> Tel. +44 (0) 1524 847600 Fax: +44 (0) 1524 847800 e-mail: <a href="mailto:gvsuk@gvs.com">gvsuk@gvs.com</a></p>	
<b>INTENDED USE / APPLICATION</b>	<p>F9 Cartridge Filter for use in HVAC applications.</p>	
<b>MATERIALS</b>	<p><b>Filter media:</b></p> <p><b>Frame/Housing Polymer:</b></p> <p><b>Color:</b></p> <p><b>Other:</b></p>	<p>F9 Glass Microfibre Media</p> <p>Flame Retardant Plastic</p> <p>Filter Frame –100% Cyan Blue and Side Plates - Dark Grey</p> <p>PU 100% white and Black Neoprene O-Ring</p>
<b>PRODUCT CHARACTERISTIC</b>	<p><b>Dimension 80.021.0059.00.AA:</b> 592 x 592 x292mm</p> <p><b>Dimension 80.021.0060.00.AA:</b> 492 x 592 x292mm</p> <p><b>Dimension 80.021.0061.00.AA:</b> 287 x 287 x292mm</p> <p><b>Weight 80.021.0059.00.AA:</b> Approximately 7kg</p> <p><b>Weight 80.021.0060.00.AA:</b> Approximately 5kg</p> <p><b>Weight 80.021.0061.00.AA:</b> Approximately 3kg</p> <p><b>Media Area: 80.021.0059.00.AA:</b> 14.0m<sup>2</sup></p> <p><b>Media Area: 80.021.0060.00.AA:</b> 10.5m<sup>2</sup></p> <p><b>Media Area: 80.021.0061.00.AA:</b> 7.0m<sup>2</sup></p> <p><b>Interfaces:</b> 20 mm Header as standard and 25mm header with O-Ring equipped.</p> <p><b>Operating temperature Range:</b> 0 °C to +70 °C</p> <p><b>Storage temperature Range:</b> 0 °C to +70 °C</p> <p><b>Air Flow Rate 80.021.0059.00.AA:</b> 3400m<sup>3</sup>/hr (0.44m<sup>3</sup>/s)</p> <p><b>Air Flow Rate 80.021.0060.00.AA :</b> 2550 m<sup>3</sup>/hr (0.33m<sup>3</sup>/s)</p> <p><b>Air Flow Rate 80.021.0061.00.AA :</b> 1700 m<sup>3</sup>/hr (0.22m<sup>3</sup>/s)</p> <p><b>Filtration Efficiency:</b> 70% Minimum for 0.4 µm particles (F9 Class)</p> <p><b>Initial Pressure Drop: 80.021.0059.00.AA:</b> 99Pa @ 3400m<sup>3</sup>/hr(0.44m<sup>3</sup>/s)</p> <p><b>Initial Pressure Drop: 80.021.0060.00.AA:</b> 74.25Pa @ 2550m<sup>3</sup>/hr(0.33m<sup>3</sup>/s)</p>	

# PRODUCT SPECIFICATION

<b>Product PN</b>	<b>80.021.0059.00.AA, 80.021.0060.00.AA, 80.021.0061.00.AA</b>	<b>Mod. 984</b>
<b>Description</b>	<b>Modular HVAC Cartridge Filter</b>	<b>Rev. 01</b>

	<p><b>Initial Pressure Drop: 80.021.0061.00.AA:</b> 49.5Pa @ 1700m<sup>3</sup>/hr(0.22m<sup>3</sup>/s)  <b>Final Pressure Drop: 80.021.0059.00.AA:</b> 495Pa @ 3400m<sup>3</sup>/hr (0.44m<sup>3</sup>/s)  <b>Final Pressure Drop: 80.021.0060.00.AA:</b> 370.7Pa @ 2250m<sup>3</sup>/hr (0.33m<sup>3</sup>/s)  <b>Final Pressure Drop: 80.021.0061.00.AA:</b> 247.5Pa @ 1700m<sup>3</sup>/hr (0.22m<sup>3</sup>/s)  <b>Operating Lifetime:</b> Suggested change point at 350Pa (Or Max 2 Years)  <b>Shelf Lifetime:</b> Max 3 Years  <b>Fire Rating:</b> BS EN 60695 equivalency test as prescribed by WI449</p>
<b>INTELLECTUAL PROPERTY AND FUNDING</b>	Patent applied for.
<b>STANDARDS APPLICABLE AND REGULATIONS</b>	EN779 and EN16890 Eurovent Certified Performance ISO 9001
<b>PACKAGING AND LABELLING</b>	<p>Packaged fully assembled in box.</p> <p>Product label attached to 1 filter panel per product as per below</p>  <p>SAP label attached to designated area on box.</p>
<b>CERTIFICATE OF COMPLIANCE</b>	The Quality Management system is in compliance with ISO 9001

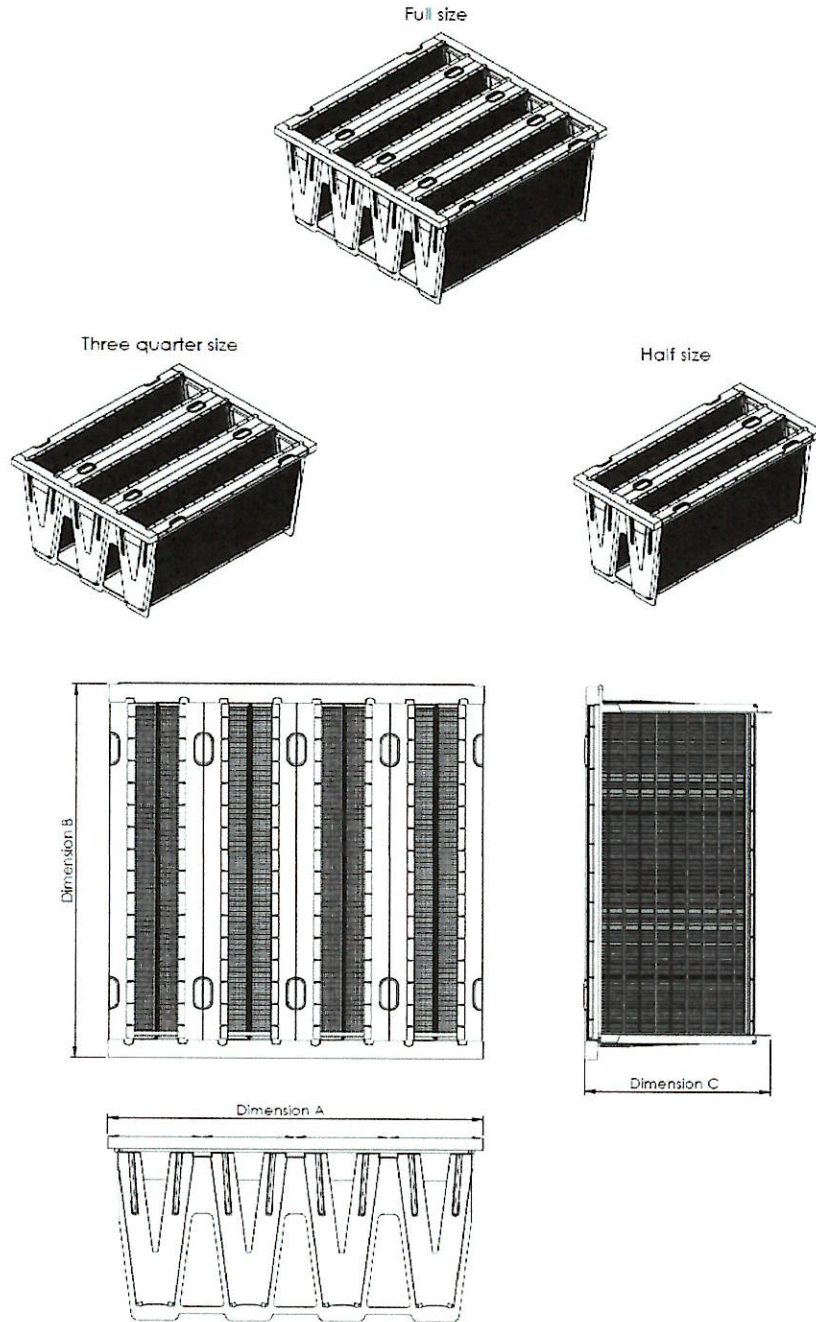
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**DRAWING**



All dimensions have a tolerance of +/- 0.5mm

Product Code	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)
80.021.0059.00.AA	592	592	292
80.021.0060.00.AA	492	592	292
80.021.0061.00.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.

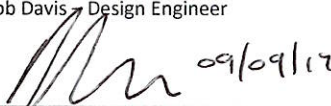



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## REVISIONS AND APPROVALS:

DATE	REV.	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (name /function and signature)	APPROVED BY: (name /function and signature)
06/08/2019	1	First Issue	Rob Davis - Design Engineer  09/09/17	Andrew Pearce - Quality  13/9/19

## 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.*