

# SUPACELL

## Lenticular Filter Modules



Amazon Filters' SupaCell lenticular filter modules offer a compact, self-contained liquid filtration solution utilising proven filter media technology. Each module consists of a number of 'cells' made from a high performance depth media manufactured from cellulose fibre and filter aid encased in polypropylene. We also provide SupaCell modules containing activated carbon for applications where purification of process liquids is required.

Modules are supplied as either 12" or 16" diameter units containing 16 cells. They are designed to fit industry standard housings incorporating 1, 2, 3 or 4 modules.

Amazon Filters is able to offer its own range of housings for new applications.

Amazon's SupaCell modules offer all the advantages of traditional sheet filtration, but in a totally enclosed format eliminating product loss and protecting the operator and production

environment from contamination by process liquids. They are also much easier and quicker to change out minimising down time, cleaning activities and operator costs. They are suitable for a wide range of applications as either final filters or prefilters.



12" Diameter Module



16" Diameter Module



16" Diameter Carbon Module

## Features and Benefits

- High performance depth media providing reliable removal of contaminants
- Available containing filter aids as standard or with activated carbon for removal of coloured impurities, catalysts etc
- Fully enclosed system eliminating product loss and operator/environment exposure to process liquids
- Supplied as pre-assembled units that are easy to install and change out – minimising operator costs
- High strength design and pre-compression to help ensure trouble free filtration
- Heavy duty non-woven polyester scrim provides improved resistance to damage from back pressure and improved back washing capability. The scrim also provides prefiltration prior to the depth filter medium.
- Advanced design of cells and construction of the modules promotes even flow maximising life and minimising pressure drops
- Available with flat gaskets or double 'o' ring end fittings

## Industries and Applications

Pharmaceutical  
Cosmetics  
Fine Chemicals

- API production, bio-processing
- Polishing of perfumes and fragrances
- Clarification of solvents and chemicals, recovery of catalysts



# SupaCell Technical Data

## Materials of Construction

All polymeric materials used in the construction of SupaCell Modules meet the requirements for food contact use as laid down in the United States FDA Code of Federal Regulations (CFR) Title 21.

Depth filter media: Cellulose based fibres combined with resins and filter aids or activated carbon  
 Matrix, spacers, end caps and sealing ring: Polypropylene  
 Scrim: Non-woven polyester  
 Fixing straps: Stainless steel (Alloy 22 available)

## Nominal Dimensions

Compressed height: 16 cell module: 275+/-3 mm  
 Diameter: 12" module: 288+/-2 mm  
 16" module: 401+/-2 mm

## Surface Area:

Module Diameter	Surface Area
12"	1.8m <sup>2</sup>
16"	3.6m <sup>2</sup>

## Maximum Operating Conditions

Temperature: 80°C  
 Recommended Maximum Differential Pressure:  
 Forward Flow: 2.5 bar  
 Reverse Flow: 0.5 bar

## Sterilisation and Sanitisation

Steam sterilised in situ: 121°C for one cycle of 30 minutes  
 Hot Water: 80°C for 20 minutes (30 cycles)

Grade	Z0	Y0	W0	W1	V0	V1	R0	N0	N1	M0	M1	M2	M3	L0	L1
Min. (µm)	0.1	0.2	0.4	0.4	0.5	0.5	1.5	3	4	5	5	6	8	9	10.5
Max. (µm)	0.3	0.4	0.5	0.6	0.8	1.5	2.5	7	9	10	12	15	20	22	25

# Ordering Guide

10LC12	16	E -	Z0	T	0	A
Cell Diameter	No of Cells	Seal	Grade	Retaining Strap	Connections	Branding
10LC12 - 12" 10LC16 - 16"	16 - 16	B - Buna E - EPDM S - Silicone T - PTFE V - Viton	See table above	T - 316 St. Steel H - Alloy 22	0 - DOE	A - Amazon

Example: 10LC1216E-Z0T0A = 12" diameter, 16 cells, EPDM Seals, Z0, 316 St. Steel, DOE, Amazon Branding

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