

# CONTOUR KilBac®

## Anti-microbial Depth Cartridge



The Contour KilBac® provides a good option when dealing with larger flow installations and its design also minimises consumable waste by eliminating core, cage and end caps.

In many water-based processes there can be a persistent problem with microbial contamination and the subsequent biofouling of the filtration system. This could be on either depth or membrane based filters.

Contour KilBac® is a range of nominal rated meltblown depth filters with the addition of KilBac® anti-microbial and anti-algal technology to prevent biofouling on the filtration media.

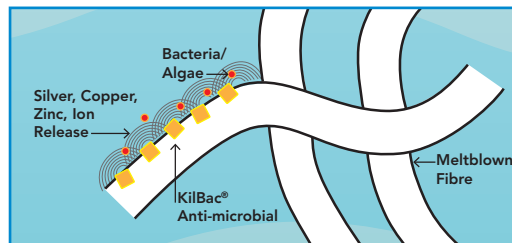
### The Technology

Rather than being based on nano-sized particles whose size and safety have been questioned in the past, our technology utilises micron sized zeolite structures which are used as a carrier for the anti-microbial agent. By optimising the fibre diameter to the active particle size we maximise the surface area and hence the efficacy of the anti-microbial to the fluid stream being filtered.

Two KilBac® grades are available;

- Silver (Ag) / Zinc (Zn) for bacteria control.
- Silver (Ag) / Copper (Cu) for algae control.

KilBac® fibres are blown continuously on to a central support core, with fibre diameters controlled to produce different pore sizes throughout the extrusion process. All the layers are interlinked to offer maximum support while ensuring that the high voids volume is maintained, but with increasing fibre density towards the cartridge central core therefore resulting in true graded density depth filtration.



• Silver (Ag) / Copper (Cu)

## Features and Benefits

- Large diameter format to maximise flow rates and lifetime
- Coreless design minimises waste consumable plastics going to landfill
- Graded density structure for maximum dirt-holding capacity
- Anti-microbial and anti-algal technology
- Eliminates biofouling on filters in addition to controlling overall bioburden in water-based recirculation processes
- Prevents biofilm build-up on single pass systems, extending filter life and reducing overall operating costs
- Range of Nominal ratings from 0.5 to 20µm
- Thermal bonding process minimises media migration and ensures minimal extractables
- Identification data embossed on every cartridge

## Industries and Applications

- |                              |   |   |
|------------------------------|---|---|
| <b>Building Services</b>     | • | Sidestream filtration for cold and hot water loops, pre-RO protection               |
| <b>Oil and Gas</b>           | • | Extending life and protecting seawater filtration systems e.g. SRP membranes        |
| <b>Industrial Process</b>    | • | Any application involving processing water e.g. water-based cutting fluids          |
| <b>Fuels</b>                 | • | Protection from biofouling on fuel systems using biofuels                           |
| <b>Waste Water Treatment</b> | • | Maximising lifetime of membrane separation systems                                  |
| <b>Water Treatment</b>       | • | Desalination, pure water bioburden reduction  |
| <b>Food &amp; Beverage</b>   | • | Prevention of biofilm on filters used to protect membranes in process water systems |

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# Contour Technical Data

## Dimensions

Outside Diameter: 152mm  
Core Diameter: 114mm

## Maximum Operating Conditions

Temperature 14A/BW: 80°C

Recommended change-out differential pressure: 2.5 Bar

Maximum $\Delta P$	PA/B Media
@ 30°C	4.0
@ 80°C	1
@ 130°C	N/A
@ 150°C	N/A

## Antimicrobial Performance

Tested to ASTM E-2149 and ASTM G-29 and effective against the following organisms:

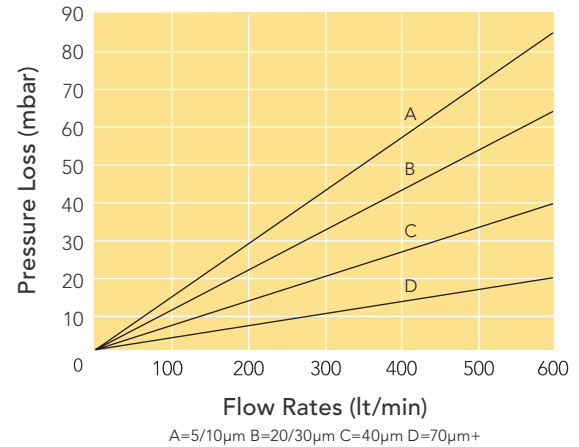
- *S. aureus*
- *P. aeruginosa*
- *E. coli*
- *Microalgae Chlorella sp*

Please contact us to discuss effectiveness against other microbial strains.

## Food Contact

All KilBac® additives are listed by FDA as a notified Food Contact Substance.

Flow Rates for Water  
(40" Element)



# Ordering Guide

14A	W	020 -	40	N	N	A	
Media	Core/Assembly	Micron Rating	Length	End Caps	Seal	Branding	Options
14A - Anti-algae 14B - Anti-bacteria	W - Without Core P - Polypropylene	005 - 5.0µm 010 - 10 020 - 20 030 - 30 040 - 40 050 - 50 070 - 70 100 - 100	20 - 508mm 40 - 1013mm	N - None	N - None	A - Amazon	

Example: 14AW020-40NNA = Anti-algae media, no core, 20µm rating, 1013mm (40") long.

# AMAZON FILTERS LTD.

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14A/B\_03 Contour KilBac