

COUGAR COATINGS Estd. 1988

WASTEWATER DIVISION

Supplying unique solutions for the water and waste water industry



BIO-BLOK® INTELLIGENT FIXED FILM BIOLOGICAL FILTER MEDIA

1.1.1. Useful Information

BIO-BLOK® is the ideal filter medium, for new wastewater treatment plants as well as for renovation of existing installations. Compared to traditional treatment plants, the application of BIO-BLOK® could increase the efficiency by up to 4 times. Therefore, in most cases the installation costs could be reduced significantly.

The BIO-BLOK®, developed by EXPO-NET Danmark A/S, is a well-tested product that has proved to be very efficient in the bacteriological treatment of domestic sewage and industrial waste water.

EXPO-NET's BIO-BLOK® is suitable for:



- Submerged, aerated filters, easily installed also in existing tanks to increase efficiency and capacity.
- Trickling filters, to treat and at the same time oxygenate and aerate (by removing the the waste water).
- Oxygenation of water.

The BIO-BLOK® is:

- Available with different areas of surface (100, 150 and 200 m² surface per m³ BIO-BLOK®). The total surface is accessible to bacteria and it is porous so that the bacteria can settle fast and easy. Also in case of occurrence of toxins in the water (chemicals, oil or the like), the full activity of the BIO-BLOK® is quickly re-established.
- Self-cleaning (the surplus bacteria are washed off during the normal operation).

VAT Registration Number 491201374

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Technical specifications of BIO-BLOK®

Type of filter media	BIO-BLOK® 100	BIO-BLOK® 150	BIO-BLOK® 200	BIO-BLOK® 300
Specific surface (m ² /m ³) (approx.)	100	150	200	300
Area of flow (approx.)	70%	64%	60%	50%
Percentage of hollow space (approx.)	90%	88%	82%	65%
Tube diameter	70mm	55mm	55mm	30mm
Standard module form	54x54x55cm	55x55x55xcm	55x55x55cm	Loose tubes

The surface measurements have been calculated by the producer. Alterations in process, material and structure may slightly change the figures above (by up to 10%). Above filter media are available with densities of approx. 0.5 and 0.95.

BIO-BLOK® 100, BIO-BLOK® 150 and BIO-BLOK® 200 are available in heights (lengths of block tubes) from 45cm to 75cm.

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	BIO-BLOK® 80 HD G	BIO-BLOK® 100	BIO-BLOK® 150 HD
INDUSTRIAL WASTEWATER			
Trickling Filters		X	X
Aerobic, Submerged Filters		X	X
Anaerobic, Submerged Filters		X	X
DOMESTIC WASTEWATER			
Trickling Filters		X	X
Aerobic, Submerged Filters		X	X
Anaerobic, Submerged Filters		X	X
Root Zone Treatment Plant		X	
AERATION	X		
AQUACULTURE			
Trickling Filters			
Aerobic, Submerged Filters			X
Anaerobic, Submerged Filters			X
SEDIMENTATION			
Lamella Separation	X		
Biological Lamella Separation			X

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