

# PACMEDIA™

Biological Wastewater Treatment Media

WHY SHOULD YOU PAY MORE ?  
WIN YOUR NEXT BID WITH  
**PACMEDIA**



- Many applications
- Cross and vertical flow
- Rigid PVC Injected Moulding
- Easy assembly and installation
- Transport charges reduced by 80%

**WATER TREATMENT SOLUTIONS**







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## MODULAR BIOMEDIA FOR WASTEWATER TREATMENT

### MEDIA BACKGROUND

For many decades, the fixed film biofilter (commonly referred to as a trickling filter) has been a widely applied method for the biological oxidation of organic wastes. Biological growth on the media surface converts dissolved organic waste material or ammonia nitrogen into stable by-products including carbon dioxide, nitrates, nitrites, water and biological solids which are later removed by clarification.

In an effort to increase the efficiency of the fixed film biofilter, various synthetic media have been developed. Unique among these, is **PACMEDIA** a modular cone fluted media, manufactured by BioSystems initially for their design built wastewater treatment plants through out South East Asia.

### DESCRIPTIONS

BioSystems' modular self-supporting **PACMEDIA**, is fabricated from rigid Injected Molded PVC. Each mould is assembled to on interlocking pattern with adjacent moulds. This configuration provides continuous and uniform horizontal and vertical redistribution of both air and water throughout the full depth of the media. All the media surface is located in a direction which ensures no unused "undersides" and the unique raised fluted cones allowing for proportion of vertical and horizontal flow has eliminated the risk of clogging.

### ADVANTAGES

The advantages of the fixed film biofilter over other methods of treatment include :

- Low energy consumption
- Reliable performance
- High resistance to hydraulic and organic shock loads
- Simple and unsophisticated operational procedures
- Effective land utilization
- Reduced sludge bulking problems

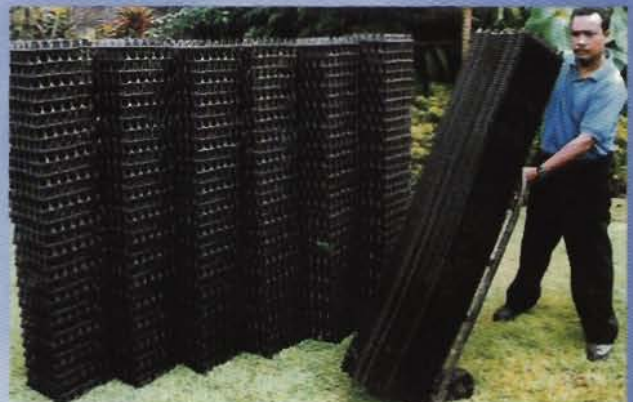
The fixed film biofilter is, therefore, a very cost-effective method for BOD (Biochemical Oxygen Demand) reduction, nitrification, denitrification, odor scrubbing and anaerobic treatment.



### SPECIFICATIONS PACMEDIA :

- **PACMEDIA** surface area 140 m<sup>2</sup>/m<sup>3</sup>, void 95%
- Polypropylene Injected Molded PVC sheets
- Sheet size 300 x 300 comprising 42 raised corner at 70° and locating lugs for assembly
- Shipping in 1 x 20 lt. container can accommodate 170 m<sup>3</sup> of **PACMEDIA** in pack down form
- Transport volume and freight charges are reduced by 80%
- Fast and simple installation thanks to easy handling of the **PACMEDIA** modules.

All of the **PACMEDIA** supplied by BioSystems is UV protected, resistant to rot, fungi, bacteria, acids and alkalies as commonly found in wastewater treatment.



Biomedium can pack down to 1 trolley on right.

### APPLICATION

Modular **PACMEDIA** has numerous applications in wastewater treatment.

The more typical application include :

- |                       |                   |
|-----------------------|-------------------|
| • Industrial Waste    | • Nitrification   |
| • Municipal Waste     | • Denitrification |
| • Polishing Treatment | • Odor Scrubbing  |
| • Replace Rock Media  | • Cooling Towers  |

Distributor :

For more information on **PACMEDIA** for a specific application please contact BioSystems Limited.