



**PB EQUIPMENT
INC**

Unrivalled Efficiency

Unprecedented Longevity

Unparalleled Performance

Featuring the

bosman  **plate aerator™**



The **PB Equipment™ Bosman® Plate Aerator™** fine bubble aeration in activated sludge wastewater treatment has unquestionable advantages over coarse and medium bubble aeration in respect to oxygen transfer efficiency and therefore lower power consumption. Fine bubble aeration will pay for itself in power costs after only a few years of operation due to this high efficiency.

The Plate Aerator™ system combines an innovative design with a special membrane that resists fouling and maintains optimal efficiency many times longer than materials used by other fine bubble manufacturers. The Plate Aerator™ is manufactured from a 316 stainless steel backing and a membrane constructed from Thermoplastic Polyurethane which does not contain any plasticizers and thus will not become brittle over time leading to a long life of the system. Thanks to the innovative design of the Plate Aerator™ it does not suffer from the disadvantages of orifice clogging, biofouling, and efficiency degradation common with other fine bubble diffusers on the market. This allows for less maintenance on the diffusers and removes the need to ever take the basin off-line.

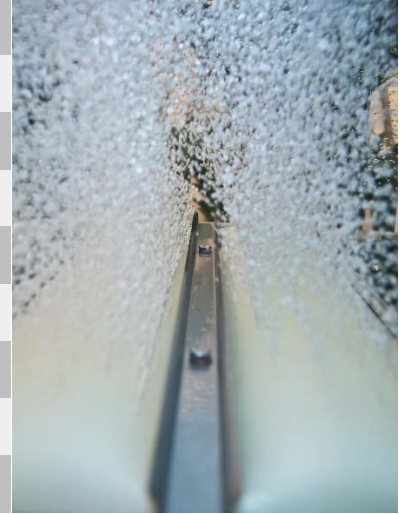
The unique design of the Bosman® Plate Aerator™ allows for the highest submergence available, with the air release point only **1-1/2 inches** from the basin floor. This additional submergence can provide as much as 10% greater efficiency than disc, dome, tube or panel diffusers.



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Plate Aerator™ Weight:	≈ 75 pounds
Plate Aerator™ Length:	80"
Plate Aerator™ Width:	40"
Plate Aerator™ Height:	1 1/2" nominal to mounting surface
Air Flow Rate:	Up to 50 scfm per plate aerator
Membrane Material:	Thermoplastic Polyurethane, <i>Plasticizer-free</i>
Membrane Life:	20+ years
Frame & Hardware Material:	Type 316 Stainless Steel
Efficiency:	Up to 11 pounds O2 / kW Hour



Every Plate Aerator™ is fully tested and serialized before it is shipped. Worldwide, there are over 10,000 plates installed. We are so confident in our Plate Aerator™, we offer a **full five year warranty** as standard.

The Bosman® Plate Aerator™ has been retrofitted into many different basins that previously used other types of aeration. Results of up to 50% energy savings have been achieved. Design and performance data is available for these retrofits.

Each Plate Aerator™ is individually fed from above the water surface of the basin. This system design facilitates taking a single Plate Aerator™ offline if necessary without dewatering the basin, while leaving all the others in service.

