



Optimisation of the geometry of a polymeric Multibore® ultrafiltration membrane and its operational advantages over standard single bore fibres

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ABSTRACT

The main advantage of Inge Water Technologies' Multibore® membrane geometry lies in the extreme durability of the membrane. Membrane breakage is virtually impossible, which gives it a real competitive edge over single bore membrane systems. One of the drawbacks was that the Multibore® took up more volume in comparison to seven single bore membranes, which led to a higher m² price of the membrane as well as a lower packing density in a module. Further optimisations have now addressed these points so that the Multibore® is not only a much tougher membrane with an optimum microorganism rejection; now it can also achieve a higher packing density without any additional costs in comparison to single bore membranes.

Keywords: Membrane; Multibore®; Ultrafiltration; Membrane geometry; Single bore; Membrane production

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