

ZeeLung* module

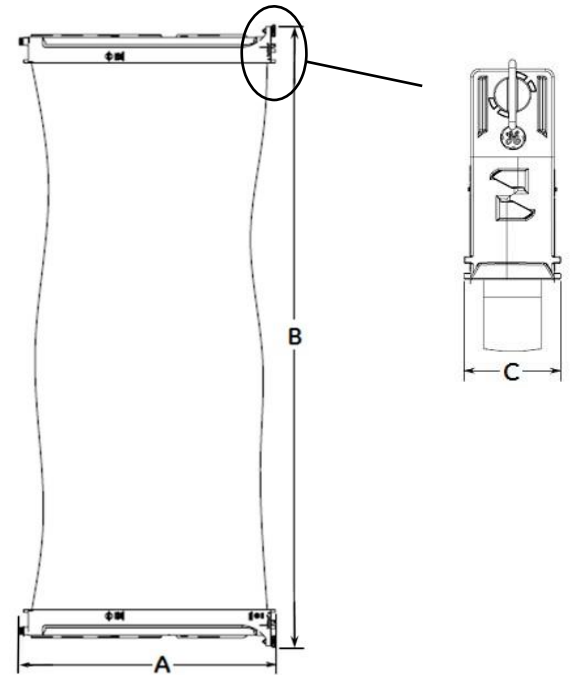
membrane aerated biofilm reactor (MABR)

description and use

The ZeeLung module delivers oxygen without the use of bubbles to bacteria that are supported on the media surface.

Low-pressure air is supplied to the top of the ZeeLung module. Air travels down the lumen of a series of dense-wall gas transfer media and molecular oxygen diffuses through the media where it is consumed by bacteria that have collected into a biofilm on the outside of the media.

In the MABR process, the bacteria in the biofilm use the oxygen to remove nutrients and organics from wastewater. The technology delivers oxygen at four-times greater efficiency than conventional bubble aeration, resulting in significantly lower energy consumption for biological treatment.



dimensions

product	depth, A mm (in)	height, B mm (in)	width, C mm (in)
430	844 (33)	2,198 (87)	52 (2)

operating specifications

product	maximum temperature °C (°F)	pH	maximum air pressure kPa (psi)
430	40 (104)	2-13	83 (12)

properties & weight

product	nominal surface area m ² (ft ²)	media diameter mm (in)	maximum shipping weight ¹ kg (lb)
430	40 (430)	1.1 (0.04)	26 (57)

(1) including packaging for an individual module

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