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## Influence of different parameter in air gap membrane distillation for seawater desalination

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Access to drinking water and resource management are major challenges of the coming decades. In a social and industrial purpose, it seems therefore vital for some people, particularly, in remote site to develop new facilities for drinking water production. Membrane distillation is one of the latest developments in the distillation desalination. It is based on the principle of vapor migration of water through a hydrophobic microporous membrane by a vapor difference between a heated solution and the air in a cold channel (the condensation channel) cooled by the initial temperature solution. Air gap membrane distillation (AGMD) is considered one of the five configurations of the Membrane distillation. Our contribution is to study the effect of NaCl concentration, porosity, and membrane pore size on the production of the flux. The results have been carried using polynomial approximations through MATLAB and the results show a good agreement with the experience.

### Biography

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