

Analysis of modified spiral wound module for direct contact membrane distillation

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Direct membrane distillation has been studied for many module types such as PNF, hollow fiber or spiral wound modules. These modules have strong points and weak points respectively. Some weak points effect decreasing of flux or increasing temperature polarization and there problems are common problems in membrane process. Another membrane process, such as RO or FO overcomes these problems using a modified modules. Modified spiral wound module is a one them.

At this study, apply a modified spiral wound module to membrane distillation process and analysis heat transfer and mass transfer for modified spiral wound module DCMD and preform comparison for another modules.