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Experimental and theoretical research on the current efficiency of the electro dialysis regenerator for liquid desiccant air-conditioning system using LiCl solution

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Highlights

- An experimental system of electro dialysis (ED) regenerator was set up.
- The current efficiency correlation of the ED regenerator is acquired.
- The ED regenerator current efficiencies in the experiment are among 20% and 70%..
- Increasing initial regenerate desiccant concentration enhances system performance.
- The operational current should be minimized if the regeneration requirement is met.

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