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Evaluation of thermal comfort in an office building served by a liquid desiccant-assisted evaporative cooling air-conditioning system

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## Highlights

- The building thermal performance was simulated to evaluate the thermal comfort in an office building served by LD-IDECOAS.
- A PMV method was adopted and the thermal comfort was evaluated by the TRNSYS 17 and EES programs.
- The LD-IDECOAS PMV variation trend was found to be similar to that of the VAV system, and most of the PMV values were in compliance with the recommended PMV range.
- According to the results, LD-IDECOAS could provide satisfactory thermal comfort for occupants in the Korean climate.

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