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Energy saving potential of thermoelectric radiant cooling panels with a dedicated outdoor air system

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Highlights

- Water-cooled TEM-RCP was proposed for parallel cooling in DOAS.
- Energy saving potential of DOAS with TEM-RCP was examined.
- VAV system and DOAS with CRCP were compared with DOAS with TEM-RCP.
- DOAS with TEM-RCP showed 40.7% reduction in the annual energy compared with VAV system
- TEM-RCP consumed 1.0% more annual energy than that using the CRCP in DOAS.

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