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Performance evaluation of coolant air with buoyancy in a parallelogrammic mixed displacement ventilated system

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Highlights

- Influence of heat and CO₂ contaminant transfer in a parallelogrammic ventilated system is analyzed.
- Co-ordinate transformation in flow system founds to be an effective factor for indoor air quality.
- Energy loss is found to be minimum when the angle of inclination varies from -300 to +300, since effective area is larger.
- Maximum value of PEC is obtained for lower inlet and upper outlet with heat source along left wall.

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