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Finding a criterion for the pressure loss of energy recovery exchangers in HVAC systems from thermodynamic and economic points of view

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## Highlights

- New criteria have been developed for the pressure drop of energy recovery units.
- The criteria are for the first time adjustable for each city.
- For the first time, the criteria differ for different types of energy recovery.
- Ventilation energy consumption is calculated with modified enthalpy-hours.
- Frost control is considered in the method.
- The thermodynamic and economic points of view have been used for the analysis.

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