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Comparative performance of air-conditioning systems with different refrigerant circuitries in liquid-separation condenser

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Highlights

- Four liquid-separation condensers (LSCs) with different refrigerant circuitries are designed.
- LSC-based air-conditioning systems are experimentally compared.
- The exergy efficiency has the different order from EER.
- The pressure drop in LSC is dominantly contributed by the last pass.
- Using PF to select the LSC in the system for better system performance is a misleading.

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