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Structural study on a swing compressor with no valves for air conditioning systems

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Highlights

- A novel swing compressor with no valves employed in air conditioning systems is presented
- This novel swing compressor has no discharge closed volume in structure.
- The clearance volume of this novel swing compressor can be greatly reduced in structure.
- It is a new method to use centrifugal force to separate oil and refrigerant in the oil supply system of swing compressor.
- The design of return chute is ingenious.

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