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(54) **REFRIGERATION SYSTEM FOR DATA CENTER**

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ABSTRACT

A refrigeration system for a data center includes an indoor module, a main outdoor heat-dissipation module and an auxiliary outdoor heat-dissipation module, inlets of the first compressor and the second compressor are respectively connected to an outlet of the indoor module, outlets of the first compressor and the second compressor are respectively connected to a gaseous refrigerant inlet of the first condenser, liquid refrigerant outlets of the first condenser and the second condenser are respectively connected to an inlet of the indoor module, in which a refrigeration cycle passage for the data center is formed by the indoor module, the first condenser and the first compressor when the main outdoor heat-dissipation module is in a normal condition, and the refrigeration cycle passage for the data center is formed by the indoor module, the second condenser and the second compressor when the main outdoor heat-dissipation module fails.

