

Easy

Assistant Engineer (Electrical), Class 2025

Building Department

Which component in a central air conditioning system is responsible for removing heat from the refrigerant?

A

Evaporator

B

Compressor

C

Expansion valve

D

Condenser**Correct**

Correct Answer: D

Full Detailed Explanation

Concept & Reasoning In the vapor-compression cycle, the evaporator absorbs heat from the conditioned space, the compressor raises refrigerant pressure/temperature, the condenser rejects both absorbed heat and compressor work, and the expansion valve drops pressure before the evaporator. **How to Solve It in the Exam** Evaporator absorbs; condenser rejects. **Important Exam Point** Follow the heat direction rather than only refrigerant phase names. **Related Revision Path** This question sits in the revision path Building Electrical Services → HVAC Refrigeration Cycle .

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