

Unit 06: Cooling and Refrigeration

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Table of Contents

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1. Unit 06: Cooling and Refrigeration

4. Chapter: Unit 06: Cooling and Refrigeration

1. Unit 06: Cooling and Refrigeration Questions

4.1.1. Calculate the maximum COP for a vapor absorption refrigeration syst...

Author: Steve Gibbs

Calculate the maximum COP for a vapor absorption refrigeration system operating with a heat source (generator) at 110°C, a chiller temperature (absorber) of 5°C, and a condenser temperature of 30°C.

Please choose only one answer:

- 0.5
- 1.9
- 2.1
- 0.43
- 2.3

Check the answer of this question online at QuizOver.com:

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4.1.2. Find the Carnot coefficient of performance for a refrigeration syst...

Author: Steve Gibbs

Find the Carnot coefficient of performance for a refrigeration system operating between 320°K and 285°K.

Please choose only one answer:

- 6.5
- 8.14
- 0.12
- 0.16
- 3.0

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

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4.1.3. For a vapor-compression refrigeration system, the enthalpy of the r...

Author: Steve Gibbs

For a vapor-compression refrigeration system, the enthalpy of the refrigerant at the evaporator input is 88 kJ/kg; the enthalpy at the compressor input is 190 kJ/kg; the enthalpy at the compressor output is 260 kJ/kg. The compression is isenthalpic. What is the coefficient of performance of the system?

Please choose only one answer:

- 1.0
- 2.0
- 1.5
- 0.66
- 3.0

Check the answer of this question online at QuizOver.com:

Question: [For a vapor-compression refrigeration system Steve Gibbs @The](#)

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4.1.4. A refrigeration system with a COP of 3.5 is used to make ice from w...

Author: Steve Gibbs

A refrigeration system with a COP of 3.5 is used to make ice from water at 0°C at a rate of 1000 lbs per day. What is the minimum power required by the refrigerator?

Please choose only one answer:

- 100 W
- 200 W
- 1000 W
- 500 W
- 5000 W

Check the answer of this question online at QuizOver.com:

Question: [A refrigeration system with a COP of 3.5 is Steve Gibbs @The Saylor](#)

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