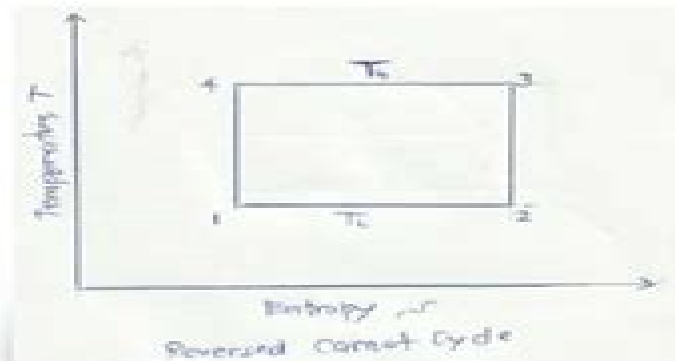


Solution:



Let $Q_a = 1 \text{ ton} = 3.516 \text{ kw}$, $W = (1.75 \text{ kw/ton})(1 \text{ ton}) = 1.75 \text{ kw}$, $T_1 = 272 \text{ K}$

(a) COP

$$COP_c = \frac{Q_a}{W} = \frac{3.516}{1.75} = 2.009$$

(b) T_2

$$COP_c = \frac{T_1}{T_2 - T_1}$$

$$2.009 = \frac{272}{T_2 - 272}$$

$$T_2 = 407.39 \text{ K}$$

(c) If $T_2 = 311 \text{ K}$

$$COP_c = \frac{T_1}{T_2 - T_1} = \frac{Q_a}{W}$$

Let $Q_a = 1 \text{ ton} = 3.516 \text{ kw}$

$$\frac{272}{311 - 272} = \frac{3.516}{W}$$

$$W = 0.5041 \text{ kw}$$

Power input = 0.5041 kw/ton

1116. A manufacturer of Carnot refrigerator has the choice of varying either the evaporator temperature $T_1 = 250\text{K}$ or the condenser temperature $T_2 = 500\text{K}$ by $\pm 25\text{K}$; no restrictions are placed on the operating temperatures. In the best interest of economy, what would you recommend to this manufacturer?

Solution:

Varying evaporator temperature

$$T_2 = 500\text{K}$$

$$T_1 = 225\text{K}$$

Thermodynamics 6th By Faies Solution Manual

Emilie Sanchez



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Table of Contents Thermodynamics 6th By Faires Solution Manual

1. Understanding the eBook Thermodynamics 6th By Faires Solution Manual
 - The Rise of Digital Reading Thermodynamics 6th By Faires Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Thermodynamics 6th By Faires Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Thermodynamics 6th By Faires Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Thermodynamics 6th By Faires Solution Manual
 - Personalized Recommendations
 - Thermodynamics 6th By Faires Solution Manual User Reviews and Ratings
 - Thermodynamics 6th By Faires Solution Manual and Bestseller Lists
5. Accessing Thermodynamics 6th By Faires Solution Manual Free and Paid eBooks
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- 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Thermodynamics 6th By Faires Solution Manual
 - Interactive Elements Thermodynamics 6th By Faires Solution Manual
- 8. Staying Engaged with Thermodynamics 6th By Faires Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Thermodynamics 6th By Faires Solution Manual
- 9. Balancing eBooks and Physical Books Thermodynamics 6th By Faires Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Thermodynamics 6th By Faires Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Thermodynamics 6th By Faires Solution Manual
 - Setting Reading Goals Thermodynamics 6th By Faires Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Thermodynamics 6th By Faires Solution Manual
 - Fact-Checking eBook Content of Thermodynamics 6th By Faires Solution Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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