

Lecture 1.2

1.2 Refrigerating effect, unit of refrigeration, Coefficient of performance...

Refrigeration & Air Conditioning

Agenda

- 1.2 Refrigerating effect, unit of refrigeration, Coefficient of performance.

1.2 Refrigerating effect, unit - Part 1

- Refrigerating Effect (RE): Amount of heat extracted.
- Detailed explanation of the concept.
- Relevant theory and practical example.

1.2 Refrigerating effect, unit - Part 2

- Ton of Refrigeration (TR).
- Detailed explanation of the concept.
- Relevant theory and practical example.

1.2 Refrigerating effect, unit - Part 3

- 1 TR = 3.5 kW or 210 kJ/min.
- Detailed explanation of the concept.
- Relevant theory and practical example.

1.2 Refrigerating effect, unit - Part 4

- Coefficient of Performance (COP) = RE / Work Input.
- Detailed explanation of the concept.
- Relevant theory and practical example.

1.2 Refrigerating effect, unit - Part 5

- COP is always greater than efficiency.
- Detailed explanation of the concept.
- Relevant theory and practical example.

1.2 Refrigerating effect, unit - Part 6

- Additional detail 6
- Detailed explanation of the concept.
- Relevant theory and practical example.

1.2 Refrigerating effect, unit - Part 7

- Additional detail 7
- Detailed explanation of the concept.
- Relevant theory and practical example.

Key Takeaways

Critical understanding of 1.2 Refrigerating effect, unit of refrigeration, Coefficient of performance... is essential for proper refrigeration and air conditioning system design.