

## Lecture 2.12

### 2.5 Simple Vapor absorptions cycle and its flow diagram;

#### Refrigeration & Air Conditioning

# Agenda

- 2.5 Simple Vapor absorptions cycle and its flow diagram;

## 2.5 Simple Vapor absorptions c - Part 1

- VARS replaces compressor with absorber, pump, generator.
- Detailed explanation of the concept.
- Relevant theory and practical example.

## 2.5 Simple Vapor absorptions c - Part 2

- Uses heat energy.
- Detailed explanation of the concept.
- Relevant theory and practical example.

## 2.5 Simple Vapor absorptions c - Part 3

- Common pairs: Ammonia-Water, Water-Lithium Bromide.
- Detailed explanation of the concept.
- Relevant theory and practical example.

## 2.5 Simple Vapor absorptions c - Part 4

- Requires very little work input.
- Detailed explanation of the concept.
- Relevant theory and practical example.

## 2.5 Simple Vapor absorptions c - Part 5

- Ideal for waste heat recovery.
- Detailed explanation of the concept.
- Relevant theory and practical example.

## 2.5 Simple Vapor absorptions c - Part 6

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

## 2.5 Simple Vapor absorptions c - Part 7

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

## Key Takeaways

Critical understanding of 2.5 Simple Vapor absorptions cycle- and its flow diagram; is essential for proper refrigeration and air conditioning system design.