

Precision redefined with nanoparticle-based VCR systems



## Learning Outcome

- Understanding the Principle of Vapour Compression Refrigeration System
- Learn about the refrigeration cycle, including the processes of compression, condensation, expansion, and evaporation.
- Study and analyze the performance characteristics of the vapour compression refrigeration system using nanoparticles in the refrigerant as well as in water.
- Evaluate and compare the system's COP and efficiency with and without nanoparticles..

## Specification

- Compact VCR system with nanoparticle used in refrigerant and also in water.
- Three types of Evaporation : Air cooled, submerged coil, and cooling tower spray type (humidifier type).
- Data logging through USB port
- Automatic control panel (optional)
- Variable flow rate of air and water



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