

Optimize cooling with our Variable VCR System's versatile parts



Learning Outcome

- Understanding the principle of vapour compression refrigeration system.
- Familiarity with controlling of flow rate and different expansion devices such as electronic expansion valves, capillary tubes, and thermostatic expansion valves.
- Ability to learn the system performance characteristics.
- Evaluation of results and calculate the C.O.P. of the system.
- Comparative study with different expansion devices and live water cooled condenser and live load evaporator.

Specification

- HMI-PLC based fully automatic system with data logging
- Ethernet and Wi-Fi enabled for remote operation
- IoT based system (optional)
- Variable speed compressor
- Two type of Condenser : Air-cooled and Water-cooled condenser
- Two type of Evaporator : PHE and Submerged coil type evaporator
- Three types of expansion valves : Thermostatic Expansion valve (TXV), Capillary, Electronic Expansion valve (EXV)
- Flow selection : Live circulation & Tank Circulation



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