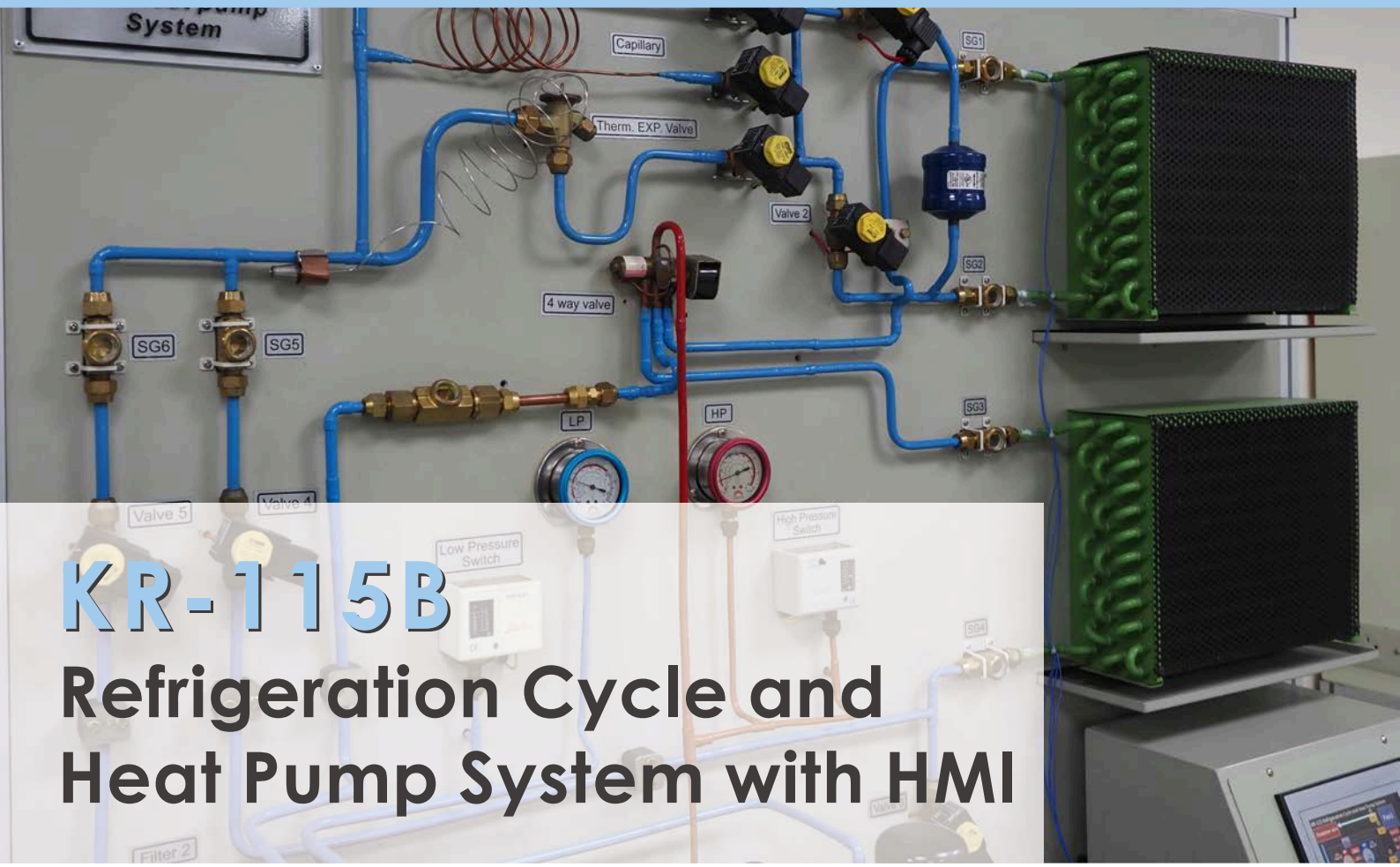


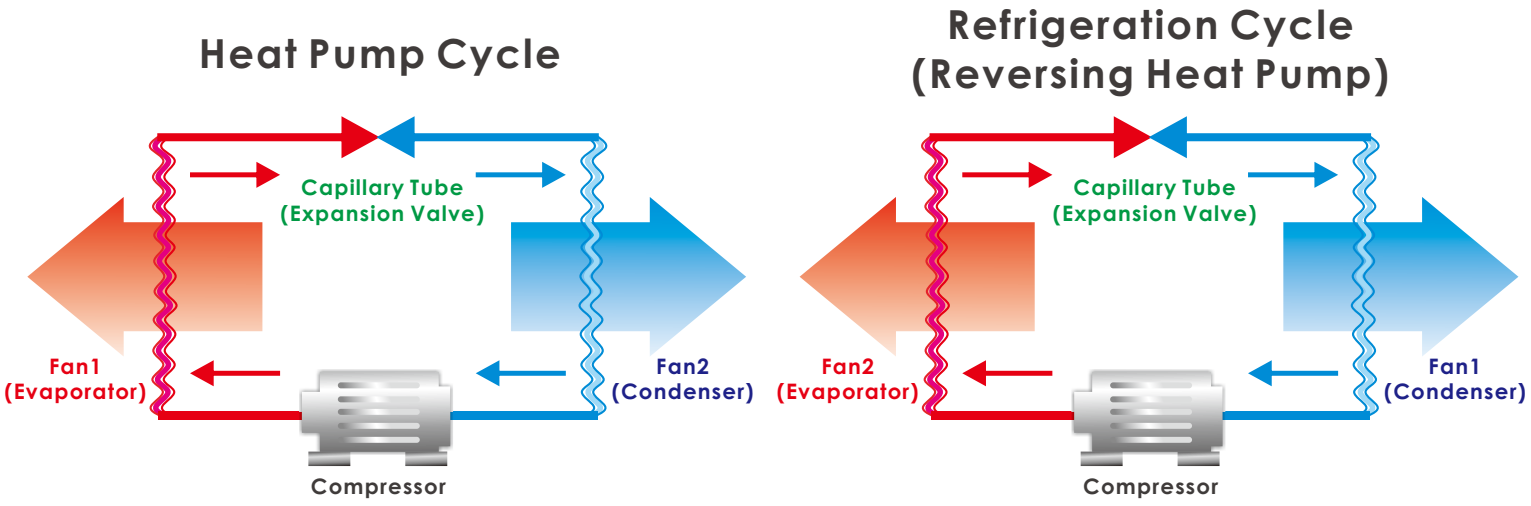
KR-115B

Refrigeration Cycle and Heat Pump System with HMI

The Refrigeration Cycle and Heat Pump System with HMI (KR-115B) is designed for learning the theories of heat transfer in refrigeration engineering. Apart from the 4 major components, the auxiliary devices such as refrigerant receivers, refrigeration accumulators and filter, are mounted components on the front panel for direct operation and observation.

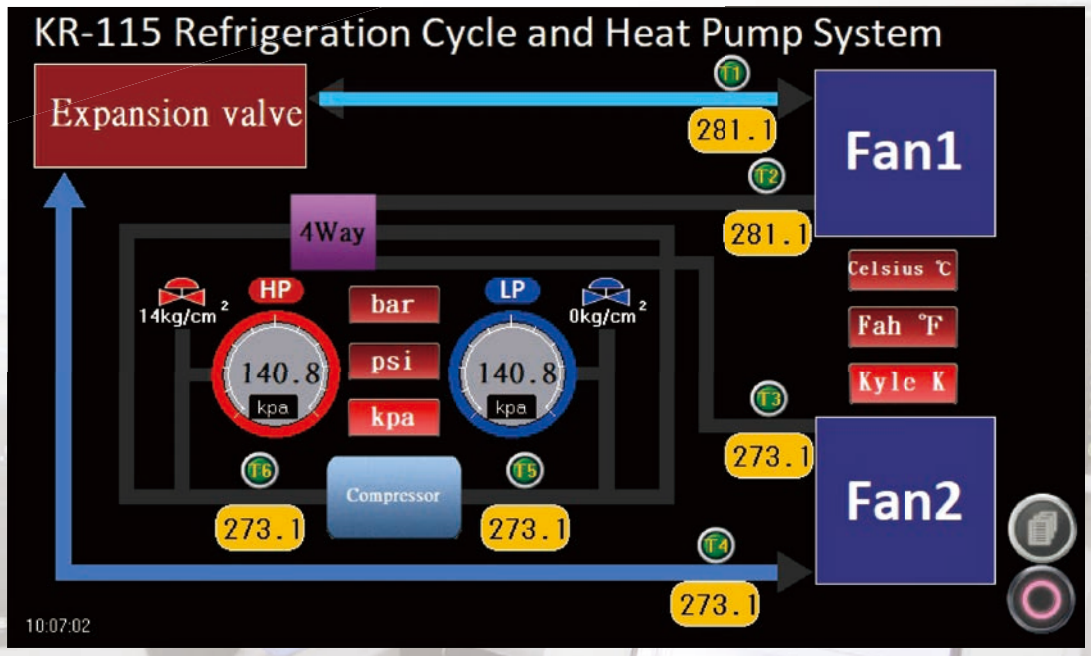
Principle of the Refrigeration Cycle System

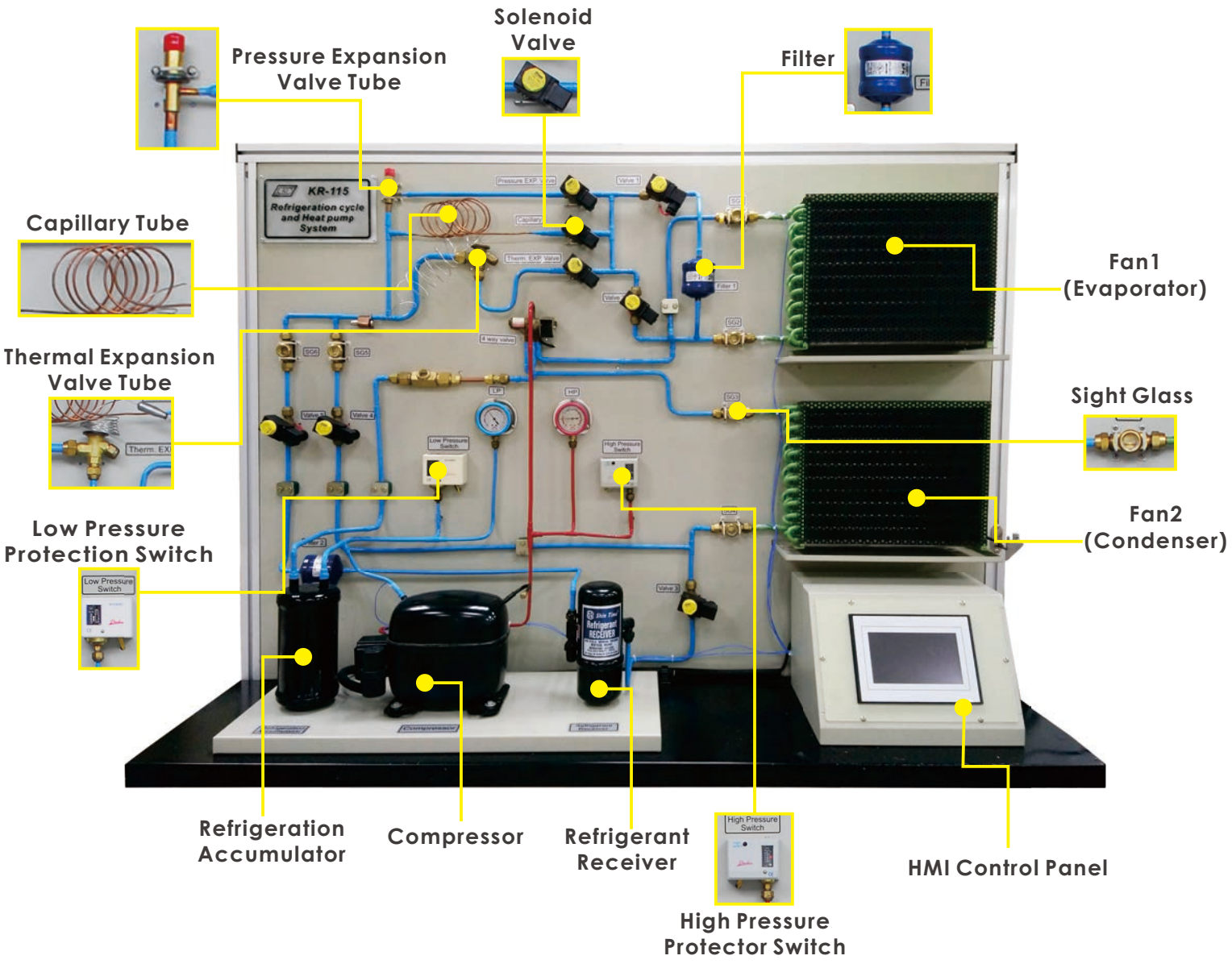
Learning the operating principles of heat pumps and refrigeration systems by observing various flowing paths of refrigerant.



Human Machine Interface (HMI)

The HMI control system allows students to conveniently monitor the status during experiments. The working status, temperature and pressure of the system can be displayed on the touch panel, for easy adjustment.





System Features

- Providing 6 sight glasses to observe the refrigerant status before and after passing through the evaporator, the condenser, the expansion devices, and the compressor.
- Providing high and low pressure protection switches to automatically halt the compressor when detecting incorrect refrigerant flowing paths.
- Use touch panel control and display data.
- Can use the VNC for wireless control. (Need use the WIFI AP)