

# Refrigeration Cycle and Heat Pump System

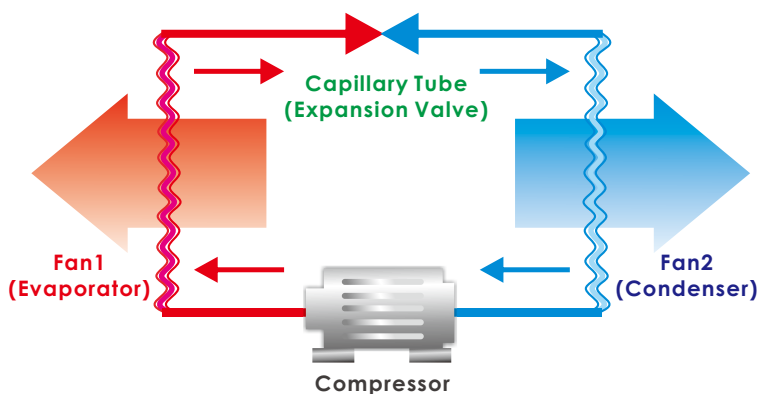
KR-115

The Refrigeration Cycle and Heat Pump System (KR-115) 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.

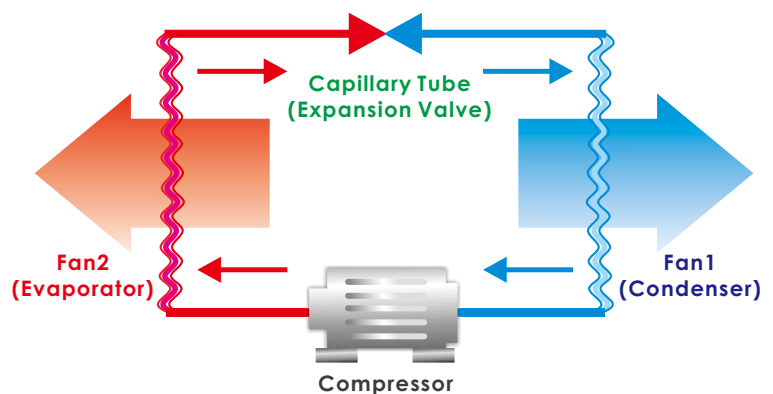
## ● Principle of the Refrigeration Cycle System

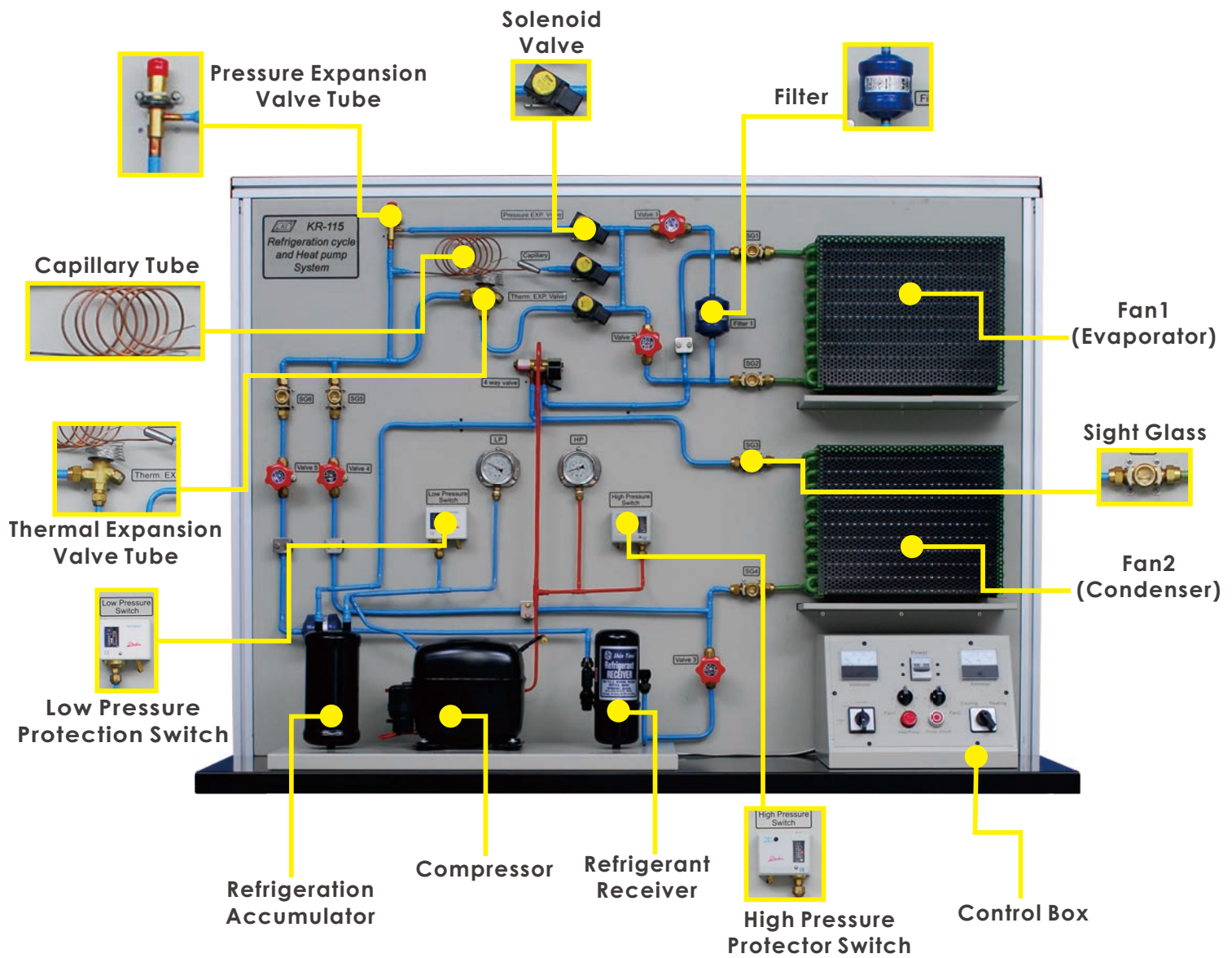
Learning the operating principles of heat pumps and refrigeration systems by observing various flowing paths of refrigerant.

**Heat Pump Cycle**



**Refrigeration Cycle (Reversing Heat Pump)**





## ● System Features

- ➔ Providing a control panel to switch between cooling and heating.
- ➔ 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 5 hand valves to control the flowing direction of the refrigerant.
- ➔ Providing high and low pressure protection switches to automatically halt the compressor when detecting incorrect refrigerant flowing paths.