

**Product Name :**  
Vapour Compression Refrigeration Trainer

**Product Code :**  
CHINAELABC2560013



**Description :**

Vapour Compression Refrigeration Trainer

**Technical Specification :**

The experimental unit represents a typical refrigeration circuit consisting of a hermetic piston compressor, condenser, expansion valve and evaporator.  
The evaporator and condenser are transparent to provide good monitoring of the phase transition process during evaporation and condensation.  
The operation of the float valve as expansion valve is also easy to observe.  
Before the entry into the evaporator the aggregate state of the refrigerant can be monitored at a sight glass.  
A water circuit cools the condenser or supplies the cooling load for the evaporator.  
Cold and hot water and refrigerant flows are adjustable.  
Vapour compression refrigeration system a refrigerant flows through the refrigeration circuit and is subject to different changes of state.  
The low-pressure level of the refrigerant SES36 used permits the use of an evaporator and condenser out of glass.  
The refrigerant is CFC-free and environmentally friendly.  
Here, the physical effect is used that during the transition of the refrigerant from a liquid to a gaseous state energy is required which is removed from the environment.

**FEATURES:**

For better process monitoring the evaporator and condenser are of transparent design  
Design and operation of a compression refrigeration system  
Energy balances- calculation of the coefficient of performance  
Represent and understand the refrigeration cycle in the log p-h diagram



**Engineering Lab China**