

**GENERAL DESCRIPTION**

This trainer has been designed specifically for educational aims so that students can delve into the study of the operation of an air cooling/heat pump and its components such as cycle-reversing valve and thermostatic expansion valve. Furthermore, students can examine the use of an intermediate fluid for the transport of thermal or refrigerating power from the production site to the place of use.



db-tech, DB-1617ACT

**Specification:**

- Steel structure mounted on wheels, painted and treated in the oven
- Color silk-screen-printed schematic diagram
- Cooling with direct expansion and water exchange system.
- Condenser/evaporator with variable point flowmeter.
- Condenser/evaporator with fan and speed regulator.
- Evaporator/condenser coil.
- Liquid receiver, liquid separator.
- On-off valves, sight glass, dehydrator filter, check valves
- Valve for plant vacuum, refrigerant charging and recovering.
- Pipes connecting the various components painted with different colors.
- Thermostats.
- Flowmeters
- 4 electronic thermometers with LM35 probes to be inserted in various test points.
- Dual pressure switch.
- Emergency button .
- Digital Wattmeter, Manometer.
- Water tank with adjusting level and drainase
- Steam generator equipped.
- Glass cabinet room with air flow meter.

<b>Classification</b>	1617ACT
Refrigerant type	R12
Compressor	750W, 2550BTU
Strainer/Drier	3/8 inch Threaded
Expansion Valve	Thermostatic Expansion Valve: TXV
Pressure Gauge	High: 0~500PSI, low: -30~250PSI
Pump	220VAC, 600 L/H
Automatic Pressure Switch	High: 8~30kg/cm2, Low -.5~ 6kg/cm2, Diff.: 1mmHg~4kg/cm2
Temperature Range	-25~50c
Weight	210kg

**Optional Available Apparatus:**

- Service Manifold (with Gauge).
- Super Heat Measuring Apparatus.