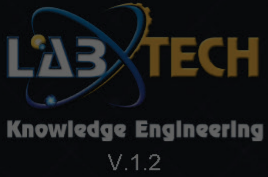




# HVAC Fundamentals by Labtech

REFERENCE SHEET - Launch Code AP62



Course Topic Area

### Overview

See the course content list. Consist of Learning Element and Learning Objectives.

### Operation Guide

Guide on how to use the application on-screen menu and features.

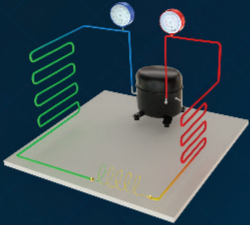
### About

Company Profile.

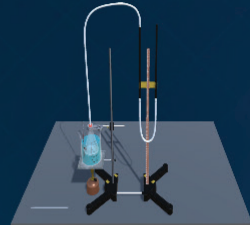
Overview

Operation Guide


About



**VAPOR COMPRESSION CYCLE**



**PRESSURE AND MEASUREMENTS**



**HEAT, TEMPERATURE AND MEASUREMENTS**



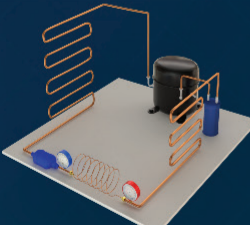
**RECIPROCATING HERMETIC COMPRESSOR**



**EVAPORATOR, AIR COOLED, FORCED AIR**



**CONDENSER, AIR COOLED, FORCED AIR**



**CAPILLARY TUBE**



**THERMOSTATIC EXPANSION VALVE**



1 / 2

EXIT

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# HVAC Fundamentals by Labtech

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WINDOW AIR CONDITIONING

Background Theory

Background Theory

Content Area

**Course Title**

**Learning Element Title**

**Window Air Conditioning**

**DEFENITION OF AIR CONDITIONING**

Air conditioning is a combined process that performs many functions simultaneously. It conditions the air, transports it, and introduces it to the conditioned space. It provides heating and cooling from its central plant or rooftop units.

WINDOW AIR CONDITIONING

Description of Part in 3D

Component

**Component Area**

**DESCRIPTION**

The front panel has adjustable horizontal and vertical (some models) louvers where the direction of air flow are adjustable to suit the comfort of the users.

**Assembly & Dis-assembly**

COMBINE

REPOSITION

i Hint

**Stylus**

Click Button, Drag and Drop Object

Zoom In/Out Object

Rotation Object



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The screenshot displays the HVAC simulation interface. At the top, the 'Technical Simulation' tab is active, highlighted with a yellow box. Below this, the 'Room Temperature' section shows a current temperature of 28°C and a text box stating: 'Room temperature will decrease until it matches the temperature setting.' A thermostat control panel shows a setpoint of 27°C and fan speed controls (1, 2, 3, OFF). A 'Simulation Description' icon is visible below the thermostat.

The 'Formative Assessment' section is also highlighted with a yellow box. It displays a question: 'Which component of Refrigeration system that liquefies refrigerant from high pressure gas to high pressure liquid?'. The question is labeled '1 of 20'. The options are: Condenser, Evaporator, Air Filter, and Compressor. 'SUBMIT' and 'SKIP' buttons are at the bottom of the question area. The text 'Question Area' is located in the bottom right corner of the question box.