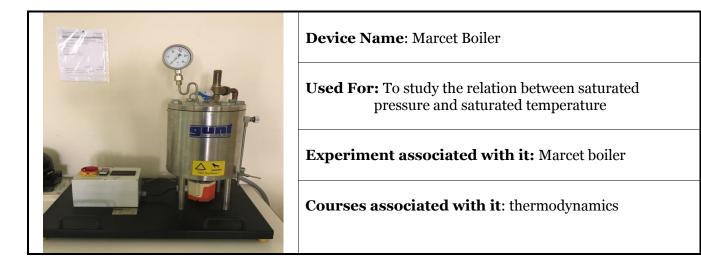
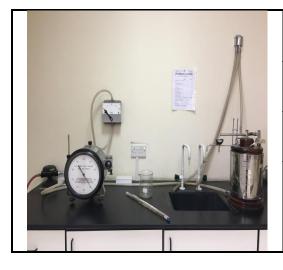
Laboratory Name	Thermal science Lab 1
Lab. Supervisor	Eng. Ola Hatem
Lab. Location	Mechanical Engineering Department



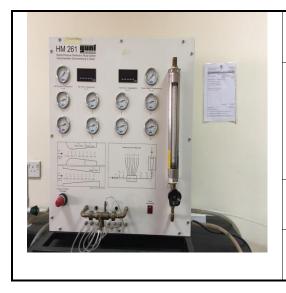


Device Name: Boy's gas fuel calorimeter

Used For: To measure the gas calorific value

Experiment associated with it: gas calorific value

Courses associated with it: thermodynamics

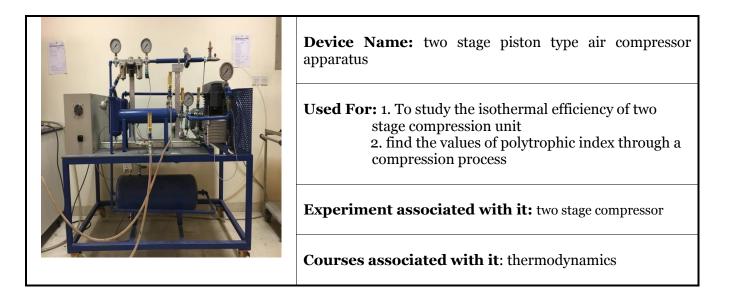


Device Name: nozzle test apparatus

Used For: 1.To study the change in air properties throw a nozzle (temperature, pressure, density and velocity)
2. calculate the nozzle efficiency
3. study the chock phenomena

Experiment associated with it: Nozzle test

Courses associated with it: thermodynamics





Device Name: Air conditioning study unit and reversing cycle heat pump with double evaporator.

Used For: To measure the coefficient of performance for refrigeration cycle and heat pump.

Experiment associated with it: Refrigeration cycle

Courses associated with it: thermodynamics

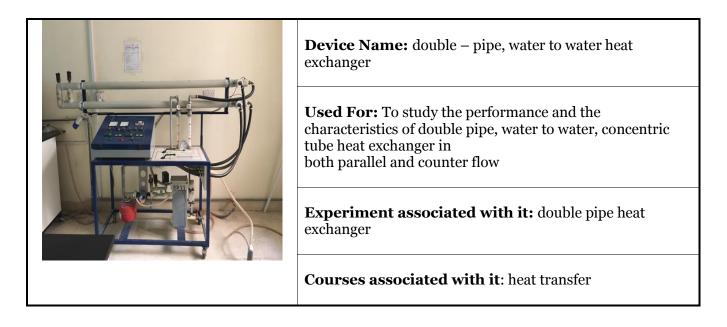


Device Name: The thermal conductivity of building and insulating materials unit

Used For: determine the thermal resistance of multilayer insulation materials.

Experiment associated with it: Thermal Resistance of Multilayer Insulation Material

Courses associated with it: heat transfer





Device Name: Cross flow heat exchanger apparatus

Used For: to study the heat transfer in cross flow heat exchanger for single and bundle arrangements

Experiment associated with it: cross flow heat exchanger

Courses associated with it: heat transfer

