Title: CONDENSER TEST SETUP

Position Ref: CTS

Position Availability: 1 student

Project Description:
A condenser test setup (CTS) located at Arçelik A.Ş. will be used to measure the condensation efficiency of several condenser geometries. The CTS is controlled by PLC for the desired entrance flow conditions of temperature, humidity and flow rate for both process and cooling airs. Some modification to the control program will be necessary. This project will be conducted at Arçelik A.Ş..

Work Description:
- Getting acquainted with the condenser test setup at Arçelik A.Ş.
- Learning and modifying the control program
- Taking thermodynamic data for various condensers
- Analyzing condensation efficiencies of the condensers at given thermal loads
- Writing a report

Required Qualifications and Skills:
- Basic knowledge on thermodynamics, heat exchanger and control theory
- Academic research and report writing skills